

Appurtenances of Waste Water Collection System

| Appurtenances of Waste Water Collection System |             |                      |                  |            |            |            |            |           |            |            |            |      |                   |                    |                            |  |
|------------------------------------------------|-------------|----------------------|------------------|------------|------------|------------|------------|-----------|------------|------------|------------|------|-------------------|--------------------|----------------------------|--|
| Sr. No                                         | Line No.    | Length of Sewer Line | No. of Man Holes |            |            |            |            |           |            |            |            |      | No. of Lamp Holes | No. of Vent Shafts | 150 mm i/d Connecting Pipe |  |
|                                                |             |                      |                  |            |            |            |            |           |            |            |            |      |                   |                    |                            |  |
|                                                |             |                      | 200 mm i/d       | 250 mm i/d | 300 mm i/d | 350 mm i/d | 400 mm i/d | 450mm i/d | 500 mm i/d | 600 mm i/d | 700 mm i/d |      |                   |                    |                            |  |
|                                                |             |                      | M                | M          | No.        | No.        | No.        | No.       | No.        | No.        | No.        | No.  | No.               | No.                | M                          |  |
| 1                                              | 2           | 2                    | 4                | 5          | 6          | 7          | 8          | 9         | 10         | 11         | 12         | 13   | 14                | 15                 |                            |  |
| 76                                             | A3-A2       | 22                   | 1                |            |            |            |            |           |            |            |            | 1    |                   | 9                  |                            |  |
| 77                                             | A2-A1       | 56                   | 3                |            |            |            |            |           |            |            |            | 3    |                   | 27                 |                            |  |
| 78                                             | 82A55-82A1  | 136                  | 7                |            |            |            |            |           |            |            |            | 7    | 1                 | 63                 |                            |  |
| 79                                             | 82A1- 82E10 | 73                   |                  | 4          |            |            |            |           |            |            |            | 4    |                   | 36                 |                            |  |
| 80                                             | 82E10-      | 220                  |                  | 11         |            |            |            |           |            |            |            | 11   |                   | 99                 |                            |  |
| 81                                             | E16-E17     | 69                   |                  | 3          |            |            |            |           |            |            |            | 3    |                   | 27                 |                            |  |
| 82                                             | E17-E11     | 138                  |                  |            | 7          |            |            |           |            |            |            | 7    |                   | 63                 |                            |  |
| 83                                             | E27-E11     | 16                   | 1                |            |            |            |            |           |            |            |            | 1    |                   | 9                  |                            |  |
| 84                                             | E11-E11     | 75                   | 4                |            |            |            |            |           |            |            |            | 4    |                   | 36                 |                            |  |
| 85                                             | E11- E12    | 58                   |                  |            | 3          |            |            |           |            |            |            | 3    |                   | 27                 |                            |  |
| 86                                             | E18- E12    | 125                  | 6                |            |            |            |            |           |            |            |            | 6    | 1                 | 54                 |                            |  |
| 87                                             | E3- E12     | 73                   | 4                |            |            |            |            |           |            |            |            | 4    |                   | 36                 |                            |  |
| 88                                             | E12- E14    | 55                   |                  |            | 3          |            |            |           |            |            |            | 3    |                   | 27                 |                            |  |
| 89                                             | E4-E14      | 73                   | 4                |            |            |            |            |           |            |            |            | 4    |                   | 36                 |                            |  |
| 90                                             | E5-E15      | 70                   | 4                |            |            |            |            |           |            |            |            | 4    | 1                 | 36                 |                            |  |
| 91                                             | E20-E15     | 150                  | 8                |            |            |            |            |           |            |            |            | 8    |                   | 72                 |                            |  |
| 92                                             | E15-E14     | 54                   | 3                |            |            |            |            |           |            |            |            | 3    | 1                 | 27                 |                            |  |
| 93                                             | E14-E19     | 189                  |                  |            |            | 9          |            |           |            |            |            | 9    |                   | 81                 |                            |  |
| 94                                             | 82E19-82E   | 49                   |                  |            |            | 2          |            |           |            |            |            | 2    |                   | 18                 |                            |  |
| 95                                             | 82E-STP 3   | 15                   |                  |            |            |            |            | 1         | 0          | 0          | 0          | 1    |                   | 9                  |                            |  |
|                                                | -           | 6607                 | 240              | 38         | 34         | 23         | 0          | 1         | 0          | 0          | 0          | 335  | 10                | 3015               |                            |  |
| 96                                             | 82A46-82A63 | 47                   | 2                |            |            | 0          |            |           |            |            |            | 2    | 1                 | 18                 |                            |  |
| 97                                             | 82A63-82A62 | 71                   | 4                |            |            | 0          |            |           |            |            |            | 4    | 1                 | 36                 |                            |  |
| 98                                             | 82A44-82A62 | 70                   | 4                |            |            | 0          |            |           |            |            |            | 4    | 1                 | 36                 |                            |  |
| 99                                             | 82A62-82A43 | 15                   | 1                |            |            | 0          |            |           |            |            |            | 1    | 1                 | 9                  |                            |  |
| 100                                            | 82A43-      | 35                   | 2                |            |            | 0          |            |           |            |            |            | 2    | 1                 | 18                 |                            |  |
|                                                | -           | 238                  | 13               |            |            | 0          |            |           |            |            |            | 2.60 | 5                 | 23.40              |                            |  |
|                                                | SECTOR 82-  |                      |                  |            |            |            |            |           |            |            |            |      |                   |                    |                            |  |
| 101                                            | 82B21-82B22 | 95                   | 5                |            |            | 0          |            |           |            |            |            | 5    |                   | 45                 |                            |  |
| 102                                            | B22-B27     | 60                   | 3                |            |            | 0          |            |           |            |            |            | 3    |                   | 27                 |                            |  |
| 103                                            | B28- B27    | 92                   | 5                |            |            | 0          |            |           |            |            |            | 5    |                   | 45                 |                            |  |
| 104                                            | B27- B26    | 49                   | 2                |            |            | 0          |            |           |            |            |            | 2    | 1                 | 18                 |                            |  |
| 105                                            | B34- B26    | 102                  | 5                |            |            | 0          |            |           |            |            |            | 5    |                   | 45                 |                            |  |
| 106                                            | B26-B25     | 5                    |                  |            |            | 0          |            |           |            |            |            |      |                   |                    |                            |  |
| 107                                            | B23- B25    | 82                   | 4                |            |            | 0          |            |           |            |            |            | 4    |                   | 36                 |                            |  |
| 108                                            | B25-B32     | 51                   | 3                |            |            | 0          |            |           |            |            |            | 3    |                   | 27                 |                            |  |
| 109                                            | B35- B32    | 95                   | 5                |            |            | 0          |            |           |            |            |            | 5    |                   | 45                 |                            |  |
| 110                                            | B32- B31    | 5                    |                  |            |            | 0          |            |           |            |            |            |      |                   |                    |                            |  |
| 111                                            | B33- B31    | 45                   | 2                |            |            | 0          |            |           |            |            |            | 2    | 1                 | 18                 |                            |  |
| 112                                            | B31- B30    | 40                   | 2                |            |            | 0          |            |           |            |            |            | 2    |                   | 18                 |                            |  |
| 113                                            | B29- B30    | 95                   | 5                |            |            | 0          |            |           |            |            |            | 5    |                   | 45                 |                            |  |
| 114                                            | B30- B9     | 34                   | 2                |            |            | 0          |            |           |            |            |            | 2    |                   | 18                 |                            |  |
| 115                                            | B9- B10     | 56                   | 3                |            |            | 0          |            |           |            |            |            | 3    |                   | 27                 |                            |  |

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Appurtenances of Waste Water Collection System

| Sr. No | Line No.    | Length of Sewer Line | No. of Man Holes |            |            |            |            |           |            | No. of Lamp Holes | No. of Vent Shafts | 150 mm i/d Connecting Pipe |
|--------|-------------|----------------------|------------------|------------|------------|------------|------------|-----------|------------|-------------------|--------------------|----------------------------|
|        |             |                      | 200 mm i/d       | 250 mm i/d | 300 mm i/d | 350 mm i/d | 400 mm i/d | 450mm i/d | 500 mm i/d | 600 mm i/d        | 700 mm i/d         |                            |
|        |             |                      | M                | M          | No.        | No.        | No.        | No.       | No.        | No.               | No.                | M                          |
| 1      | 2           | 2                    | 4                | 5          | 6          | 7          | 8          | 9         | 10         | 11                | 12                 | 15                         |
| 116    | C4-C2       | 34                   | 2                |            |            | 0          |            |           |            |                   | 2                  | 18                         |
| 117    | C2-F35      | 42                   | 2                |            |            | 0          |            |           |            |                   | 2                  | 18                         |
| 118    | F35-F32     | 33                   | 2                |            |            | 0          |            |           |            |                   | 2                  | 18                         |
| 119    | F32-B10     | 87                   | 4                |            |            | 0          |            |           |            |                   | 4                  | 36                         |
| 120    | B10-B11     | 66                   | 3                |            |            | 0          |            |           |            |                   | 3                  | 27                         |
| 121    | B12-B11     | 95                   | 5                |            |            | 0          |            |           |            |                   | 5                  | 45                         |
| 122    | B11-C1      | 54                   | 3                |            |            | 0          |            |           |            |                   | 3                  | 27                         |
| 123    | C1-C21      | 158                  | 8                |            |            | 0          |            |           |            |                   | 8                  | 72                         |
| 124    | C21-C21     | 8                    | 3                |            |            | 0          |            |           |            |                   | 3                  | 27                         |
| 125    | C21-C22     | 68                   | 3                |            |            | 0          |            |           |            |                   | 3                  | 27                         |
| 126    | C22-C24     | 29                   | 1                |            |            | 0          |            |           |            |                   | 1                  | 9                          |
| 127    | C24-C42     | 100                  | 5                |            |            | 0          |            |           |            |                   | 5                  | 45                         |
| 128    | C43-C43     | 39                   | 2                |            |            | 0          |            |           |            |                   | 2                  | 18                         |
| 129    | C43-C42     | 54                   | 3                |            |            | 0          |            |           |            |                   | 3                  | 27                         |
| 130    | C42-C44     | 78                   | 4                |            |            | 0          |            |           |            |                   | 4                  | 36                         |
| 131    | C44-C45     | 34                   | 2                |            |            | 0          |            |           |            |                   | 2                  | 18                         |
| 132    | C45-C26     | 51                   | 3                |            |            | 0          |            |           |            |                   | 3                  | 27                         |
| 133    | C27-C26     | 29                   | 1                |            |            | 0          |            |           |            |                   | 1                  | 9                          |
| 134    | C26-C25     | 65                   | 3                |            |            | 0          |            |           |            |                   | 3                  | 27                         |
| 135    | C25-C47     | 126                  | 6                |            |            | 0          |            |           |            |                   | 6                  | 54                         |
| 136    | C47-C7      | 90                   | 5                |            |            | 0          |            |           |            |                   | 5                  | 45                         |
| 137    | 82C7-82C48  | 14                   | 1                |            |            | 0          |            |           |            |                   | 1                  | 9                          |
| 138    | 82C30-82C30 | 27                   | 1                |            |            | 0          |            |           |            |                   | 1                  | 9                          |
| 139    | C49-C30     | 60                   | 3                |            |            | 0          |            |           |            |                   | 3                  | 27                         |
| 140    | C30-C31     | 55                   | 3                |            |            | 0          |            |           |            |                   | 3                  | 27                         |
| 141    | C32-C31     | 43                   | 2                |            |            | 0          |            |           |            |                   | 2                  | 18                         |
| 142    | C31-C34     | 58                   | 3                |            |            | 0          |            |           |            |                   | 3                  | 27                         |
| 143    | 812-B7      | 85                   | 4                |            |            | 0          |            |           |            |                   | 4                  | 36                         |
| 144    | 811-B7      | 27                   | 1                |            |            | 0          |            |           |            |                   | 1                  | 9                          |
| 145    | B7-82C34    | 87                   | 4                |            |            | 0          |            |           |            |                   | 4                  | 36                         |
| 146    | C34-C50     | 77                   | 4                |            |            | 0          |            |           |            |                   | 4                  | 36                         |
| 147    | C14-C36     | 154                  | 8                |            |            | 0          |            |           |            |                   | 8                  | 72                         |
| 148    | C36-C35     | 75                   | 4                |            |            | 0          |            |           |            |                   | 4                  | 36                         |
| 149    | C12-C35     | 161                  | 8                |            |            | 0          |            |           |            |                   | 8                  | 72                         |
| 150    | C35-C50     | 69                   | 3                |            |            | 0          |            |           |            |                   | 3                  | 27                         |
| 151    | C51-C50     | 98                   | 5                |            |            | 0          |            |           |            |                   | 5                  | 45                         |
| 152    | C50-C33     | 93                   | 5                |            |            | 0          |            |           |            |                   | 5                  | 45                         |

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**Appurtenances of Waste Water Collection System**

| Sr. No | Line No.    | Length of Sewer Line | No. of Man Holes |            |            |            |            |           |            |            |            |     | No. of Lamp Holes | No. of Vent Shafts | 150 mm i/d Connecting Pipe |
|--------|-------------|----------------------|------------------|------------|------------|------------|------------|-----------|------------|------------|------------|-----|-------------------|--------------------|----------------------------|
|        |             |                      | No. of Man Holes |            |            |            |            |           |            |            |            |     |                   |                    |                            |
|        |             |                      | 200 mm i/d       | 250 mm i/d | 300 mm i/d | 350 mm i/d | 400 mm i/d | 450mm i/d | 500 mm i/d | 600 mm i/d | 700 mm i/d |     |                   |                    |                            |
|        |             |                      | M                | M          | No.        | No.        | No.        | No.       | No.        | No.        | No.        | No. | No.               | No.                | No.                        |
| 1      | 2           | 2                    | 4                | 5          | 6          | 7          | 8          | 9         | 10         | 11         | 12         | 13  | 14                | 15                 |                            |
| 153    | 82C33-82C48 | 147                  | 7                |            |            | 0          |            |           |            |            |            | 7   |                   | 63                 |                            |
|        | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 154    | 82C48-82C8  | 38                   |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 155    | F29-C8      | 41                   |                  |            | 2          | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 156    | C8-F30      | 72                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 157    | F31-F30     | 6                    |                  |            | 4          | 0          |            |           |            |            |            |     |                   |                    |                            |
| 158    | 82F30-82D20 | 40                   |                  |            |            | 0          |            |           |            |            |            | 0   |                   | 0                  |                            |
|        | -           |                      |                  |            |            | 2          |            |           |            |            |            | 2   |                   | 18                 |                            |
|        |             |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 159    | 82B17-82B16 | 34                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 160    | B16-B15     | 123                  | 6                |            |            | 0          |            |           |            |            |            | 6   |                   | 54                 |                            |
| 161    | B15-B37     | 188                  | 9                |            |            | 0          |            |           |            |            |            | 9   |                   | 81                 |                            |
| 162    | B37- B36    | 46                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 163    | B1-B36      | 69                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 164    | B36- E2     | 45                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 165    | E2-E3       | 29                   | 1                |            |            | 0          |            |           |            |            |            | 1   |                   | 9                  |                            |
|        | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 166    | B24- B4     | 157                  | 8                |            |            | 0          |            |           |            |            |            | 8   |                   | 72                 |                            |
| 167    | B4-B3       | 54                   | 3                |            |            | 0          |            |           |            |            |            | 3   | 1                 | 27                 |                            |
|        | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 168    | B24-B23     | 29                   | 1                |            |            | 0          |            |           |            |            |            | 1   |                   | 9                  |                            |
| 169    | B23- B3     | 208                  | 10               |            |            | 0          |            |           |            |            |            | 10  |                   | 90                 |                            |
|        | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 170    | B3-B2       | 55                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 171    | B6-B2       | 46                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 172    | B2-E3       | 61                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
|        | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 173    | E3- E4      | 55                   | 3                |            |            | 0          |            |           |            |            |            | 3   | 1                 | 27                 |                            |
| 174    | E4- E5      | 54                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 175    | E5-E6       | 19                   | 1                |            |            | 0          |            |           |            |            |            | 1   |                   | 9                  |                            |
| 176    | E7- E6      | 67                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 177    | E6- B5      | 64                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 178    | F9-B5       | 33                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 179    | B5- B7      | 197                  | 10               |            |            | 0          |            |           |            |            |            | 10  |                   | 90                 |                            |
|        | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 180    | F33-B8      | 30                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 181    | B8- B7      | 59                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
|        | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 182    | B7- F1      | 55                   |                  | 3          |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 183    | F9- F1      | 159                  | 8                |            |            | 0          |            |           |            |            |            | 8   |                   | 72                 |                            |
| 184    | F1- F2      | 57                   |                  |            | 3          | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
|        | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 185    | F19-F18     | 18                   | 1                |            |            | 0          |            |           |            |            |            | 1   |                   | 9                  |                            |
| 186    | F18-F16     | 13                   | 1                |            |            | 0          |            |           |            |            |            |     | 1                 |                    |                            |
| 187    | F11-F16     | 93                   | 5                |            |            | 0          |            |           |            |            |            | 5   |                   | 45                 |                            |
| 188    | F16-F15     | 53                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 189    | F15-F14     | 55                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |

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Appendices of Waste Water Collection System

| Appurtenances of Waste Water Collection System |             |                      |                  |            |            |            |            |           |            |            |            |     |                   |                    |                            |  |
|------------------------------------------------|-------------|----------------------|------------------|------------|------------|------------|------------|-----------|------------|------------|------------|-----|-------------------|--------------------|----------------------------|--|
| Sr. No                                         | Line No.    | Length of Sewer Line | No. of Man Holes |            |            |            |            |           |            |            |            |     | No. of Lamp Holes | No. of Vent Shafts | 150 mm i/d Connecting Pipe |  |
|                                                |             |                      | 200 mm i/d       | 250 mm i/d | 300 mm i/d | 350 mm i/d | 400 mm i/d | 450mm i/d | 500 mm i/d | 600 mm i/d | 700 mm i/d |     |                   |                    |                            |  |
|                                                |             |                      | M                | M          | No.        | No.        | No.        | No.       | No.        | No.        | No.        | No. | No.               | No.                | M                          |  |
| 1                                              | 2           | 2                    | 4                | 5          | 6          | 7          | 8          | 9         | 10         | 11         | 12         | 13  | 14                | 15                 |                            |  |
| 190                                            | F14- F2     | 176                  | 9                |            |            | 0          |            |           |            |            |            | 9   |                   | 9                  | 81                         |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 191                                            | F2-F3       | 54                   |                  |            |            | 0          |            |           |            |            |            | 3   |                   | 3                  | 27                         |  |
| 192                                            | F15-F3      | 147                  | 7                |            | 3          | 0          |            |           |            |            |            | 7   |                   | 7                  | 63                         |  |
| 193                                            | F3-F4       | 6                    |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 194                                            | F12- F4     | 40                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 2                  | 18                         |  |
| 195                                            | F4- F5      | 27                   |                  |            | 1          | 0          |            |           |            |            |            | 1   |                   | 1                  | 9                          |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 196                                            | F21-F20     | 81                   | 4                |            |            | 0          |            |           |            |            |            | 4   |                   | 4                  | 36                         |  |
| 197                                            | F20-F5      | 19                   | 1                |            |            | 0          |            |           |            |            |            | 1   |                   | 1                  | 9                          |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 198                                            | F5- F6      | 89                   |                  |            | 4          | 0          |            |           |            |            |            | 4   |                   | 4                  | 36                         |  |
| 199                                            | F21-F6      | 43                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 2                  | 18                         |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 200                                            | F24-F23     | 98                   | 5                |            |            | 0          |            |           |            |            |            | 5   |                   | 5                  | 45                         |  |
| 201                                            | F23- F6     | 59                   | 3                |            |            | 0          |            |           |            |            |            | 3   | 1                 | 3                  | 27                         |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 202                                            | F6- F7      | 129                  |                  |            | 6          | 0          |            |           |            |            |            | 6   |                   | 6                  | 54                         |  |
| 203                                            | F26- F7     | 75                   | 4                |            |            | 0          |            |           |            |            |            | 4   |                   | 4                  | 36                         |  |
| 204                                            | F25- F7     | 29                   | 1                |            |            | 0          |            |           |            |            |            | 1   |                   | 1                  | 9                          |  |
| 205                                            | F7- F8      | 66                   |                  |            | 3          | 0          |            |           |            |            |            | 3   |                   | 3                  | 27                         |  |
| 206                                            | D1- F8      | 37                   |                  |            | 0          | 0          |            |           |            |            |            | 0   |                   | 0                  | 0                          |  |
| 207                                            | F8- F27     | 43                   |                  |            | 2          | 0          |            |           |            |            |            | 2   |                   | 2                  | 18                         |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 208                                            | F34-F36     | 43                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 2                  | 18                         |  |
| 209                                            | F36-F28     | 73                   | 4                |            |            | 0          |            |           |            |            |            | 4   |                   | 4                  | 36                         |  |
| 210                                            | F28-F27     | 174                  | 9                |            |            | 0          |            |           |            |            |            | 9   |                   | 9                  | 81                         |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 211                                            | F27-D22     | 36                   |                  |            | 2          | 0          |            |           |            |            |            | 2   |                   | 2                  | 18                         |  |
| 212                                            | D22- D38    | 53                   |                  |            | 3          | 0          |            |           |            |            |            | 3   |                   | 3                  | 27                         |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 213                                            | D40- D39    | 40                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 2                  | 18                         |  |
| 214                                            | D39- D38    | 62                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   | 3                  | 27                         |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 215                                            | 82D38-      | 152                  |                  |            | 8          | 0          |            |           |            |            |            | 8   |                   | 8                  | 72                         |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 216                                            | 82D20-82D23 | 69                   |                  |            |            | 3          |            |           |            |            |            | 3   |                   | 3                  | 27                         |  |
| 217                                            | D24-D23     | 49                   |                  |            |            | 2          |            |           |            |            |            | 2   |                   | 2                  | 18                         |  |
| 218                                            | 82D23-      | 150                  |                  |            |            | 8          |            |           |            |            |            |     |                   |                    |                            |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 219                                            | 82C53-82C53 | 140                  | 7                |            |            | 0          |            |           |            |            |            | 7   |                   | 7                  | 63                         |  |
| 220                                            | C53-C52     | 60                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   | 3                  | 27                         |  |
|                                                | -           |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |  |
| 221                                            | C40-C38     | 8                    |                  |            |            | 0          |            |           |            |            |            | 0   |                   | 0                  | 0                          |  |
| 222                                            | C38-C52     | 40                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 2                  | 18                         |  |

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| Sr. No | Line No.               | Length of Sewer Line | No. of Man Holes |            |            |            |            |           |            |            |            |                   | No. of Vent Shafts | 150 mm i/d Connecting Pipe |
|--------|------------------------|----------------------|------------------|------------|------------|------------|------------|-----------|------------|------------|------------|-------------------|--------------------|----------------------------|
|        |                        |                      | 200 mm i/d       | 250 mm i/d | 300 mm i/d | 350 mm i/d | 400 mm i/d | 450mm i/d | 500 mm i/d | 600 mm i/d | 700 mm i/d | No. of Lamp Holes |                    |                            |
| 1      | 2                      | 2                    | M 4              | M 5        | No. 6      | No. 7      | No. 8      | No. 9     | No. 10     | No. 11     | No. 12     | No. 13            | No. 14             | M 15                       |
| 223    | C52-C16                | 214                  | 11               |            |            | 0          |            |           |            |            |            | 11                |                    | 99                         |
| 224    | C41-C54                | 89                   | 4                |            |            | 0          |            |           |            |            |            | 4                 |                    | 36                         |
| 225    | C54-C20                | 81                   | 4                |            |            | 0          |            |           |            |            |            | 4                 |                    | 36                         |
| 226    | C20-C18                | 82                   | 4                |            |            | 0          |            |           |            |            |            | 2                 |                    | 18                         |
| 227    | C18-C16                | 30                   | 2                |            |            | 0          |            |           |            |            |            | 1                 |                    | 9                          |
| 228    | 82C16-82D26            | 28                   | 1                |            |            | 0          |            |           |            |            |            |                   |                    |                            |
| 229    | 82D26-                 | 48                   |                  |            |            | 0          |            |           |            |            |            | 2                 |                    | 18                         |
| 230    | D27-D28                | 219                  |                  |            |            | 11         |            |           |            |            |            | 11                |                    | 99                         |
| 231    | D28- D29               | 103                  |                  |            |            | 5          |            |           |            |            |            | 5                 |                    | 45                         |
| 232    | D25- D29               | 69                   | 3                |            |            | 0          |            |           |            |            |            | 3                 |                    | 27                         |
| 233    | D29- D32               | 66                   |                  |            |            | 3          |            |           |            |            |            | 3                 |                    | 27                         |
| 234    | D31- D32               | 10                   | 1                |            |            | 0          |            |           |            |            |            | 1                 |                    | 9                          |
| 235    | D32- D33               | 70                   |                  |            |            | 4          |            |           |            |            |            | 4                 |                    | 36                         |
| 236    | D34- D33               | 48                   | 2                |            |            | 0          |            |           |            |            |            | 2                 |                    | 18                         |
| 237    | 82D33-                 | 65                   |                  |            |            | 3          |            |           |            |            |            | 3                 |                    | 27                         |
| 238    | 82D3- 82D2             | 50                   | 3                |            |            | 0          |            |           |            |            |            | 3                 |                    | 27                         |
| 239    | D2-D6                  | 77                   | 4                |            |            | 0          |            |           |            |            |            | 4                 |                    | 36                         |
| 240    | D5-D6                  | 11                   | 1                |            |            | 0          |            |           |            |            |            | 1                 |                    | 9                          |
| 241    | D6-D7                  | 53                   | 3                |            |            | 0          |            |           |            |            |            | 3                 |                    | 27                         |
| 242    | D8-D7                  | 134                  | 7                |            |            | 0          |            |           |            |            |            | 7                 |                    | 63                         |
| 243    | D7-D11                 | 53                   | 3                |            |            | 0          |            |           |            |            |            | 3                 |                    | 27                         |
| 244    | D14-D10                | 10                   | 1                |            |            | 0          |            |           |            |            |            | 1                 |                    | 9                          |
| 245    | D10-D11                | 84                   | 4                |            |            | 0          |            |           |            |            |            | 4                 |                    | 36                         |
| 246    | D11- D15               | 73                   | 4                |            |            | 0          |            |           |            |            |            | 4                 |                    | 36                         |
| 247    | D15- D16               | 59                   | 3                |            |            | 0          |            |           |            |            |            | 3                 |                    | 27                         |
| 248    | D18- D16               | 41                   | 2                |            |            | 0          |            |           |            |            |            | 2                 |                    | 18                         |
| 249    | D16-D19                | 43                   | 2                |            |            | 0          |            |           |            |            |            | 2                 |                    | 18                         |
| 250    | D19- D17               | 57                   | 3                |            |            | 0          |            |           |            |            |            | 3                 |                    | 27                         |
| 251    | D41- D17               | 74                   | 4                |            |            | 0          |            |           |            |            |            | 4                 |                    | 36                         |
| 252    | 82D17-82D21            | 16                   | 1                |            |            | 0          |            |           |            |            |            | 1                 |                    | 9                          |
| 253    | 82D21-82D25            | 63                   |                  |            |            | 0          |            |           |            |            |            | 3                 |                    | 27                         |
| 254    | 82D25-X                | 17                   |                  |            |            | 0          |            |           |            |            |            | 1                 |                    | 9                          |
| 255    | X-X                    | 81                   |                  |            |            | 0          |            |           |            |            |            | 4                 |                    | 36                         |
| 256    | SECTOR 85- 85C12-85C11 | 26                   | 1                |            |            | 0          |            |           |            |            |            | 1                 |                    | 9                          |
| 257    | C21-C11                | 19                   | 1                |            |            | 0          |            |           |            |            |            | 1                 |                    | 9                          |

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| Sr. No | Line No. | Length of Sewer Line | No. of Man Holes |            |            |            |            |           |            |            |            |     | No. of Lamp Holes | No. of Vent Shafts | 150 mm i/d Connecting Pipe |
|--------|----------|----------------------|------------------|------------|------------|------------|------------|-----------|------------|------------|------------|-----|-------------------|--------------------|----------------------------|
|        |          |                      |                  |            |            |            |            |           |            |            |            |     |                   |                    |                            |
|        |          |                      | 200 mm i/d       | 250 mm i/d | 300 mm i/d | 350 mm i/d | 400 mm i/d | 450mm i/d | 500 mm i/d | 600 mm i/d | 700 mm i/d |     |                   |                    |                            |
|        |          | M                    | M                | No.        | No.        | No.        | No.        | No.       | No.        | No.        | No.        | No. | No.               | No.                | M                          |
| 1      | 2        | 2                    | 4                | 5          | 6          | 7          | 8          | 9         | 10         | 11         | 12         | 13  | 14                | 15                 | M                          |
| 258    | C11-C10  | 55                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   |                    |                            |
| 259    | C17-C10  | 61                   | 3                |            |            | 0          |            |           |            |            |            | 3   |                   |                    |                            |
| 260    | C14-C10  | 103                  |                  | 5          |            | 0          |            |           |            |            |            | 3   | 1                 | 27                 |                            |
| 261    | C10-C9   | 58                   |                  | 3          |            | 0          |            |           |            |            |            | 5   |                   | 45                 |                            |
| 262    | C7-C9    | 110                  | 6                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 263    | C9-C6    | 49                   |                  | 2          |            | 0          |            |           |            |            |            | 6   |                   | 54                 |                            |
| 264    | C6-C5    | 65                   |                  |            | 3          | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 265    | B39-B38  | 92                   | 5                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 266    | B38-B37  | 27                   | 1                |            |            | 0          |            |           |            |            |            | 5   |                   | 45                 |                            |
| 267    | B37-C5   | 140                  | 7                |            |            | 0          |            |           |            |            |            | 1   |                   | 9                  |                            |
| 268    | C5-C4    | 17                   |                  |            |            | 0          | 1          |           |            |            |            | 7   |                   | 63                 |                            |
| 269    | C20-C4   | 90                   | 5                |            |            | 0          |            |           |            |            |            | 5   |                   | 45                 |                            |
| 270    | C4-C3    | 20                   |                  |            |            | 0          | 1          |           |            |            |            | 1   |                   | 9                  |                            |
| 271    | B41-B40  | 141                  | 7                |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 272    | B42-B40  | 185                  | 9                |            |            | 0          |            |           |            |            |            | 7   | 1                 | 63                 |                            |
| 273    | B40-C3   | 18                   | 1                |            |            | 0          |            |           |            |            |            | 9   |                   | 81                 |                            |
| 274    | C3-C2    | 33                   |                  |            |            | 0          |            | 2         |            |            |            | 1   | 1                 | 9                  |                            |
| 275    | C17-C16  | 37                   |                  |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 276    | C18-C16  | 34                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 277    | C16-C15  | 49                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 278    | C19-C15  | 42                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 279    | C15-C2   | 25                   | 1                |            |            | 0          |            |           |            |            |            | 1   |                   | 9                  |                            |
| 280    | C2-C1    | 40                   |                  |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 281    | C1-B36   | 67                   |                  |            |            | 0          | 3          |           |            |            |            | 3   |                   | 27                 |                            |
| 282    | B36-B15  | 177                  |                  |            |            | 0          | 9          |           |            |            |            | 9   |                   | 81                 |                            |
| 283    | B25-B21  | 75                   | 4                |            |            | 0          |            |           |            |            |            | 4   |                   | 36                 |                            |
| 284    | B29-B21  | 45                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 285    | B21-B20  | 48                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 286    | B24-B20  | 53                   | 3                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 287    | B30-B20  | 85                   | 4                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 288    | B20-B19  | 40                   | 2                |            |            | 0          |            |           |            |            |            | 4   |                   | 36                 |                            |
| 289    | B31-B19  | 118                  | 6                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 290    | B19-B18  | 39                   | 2                |            |            | 0          |            |           |            |            |            | 6   |                   | 54                 |                            |
| 291    | B23-B18  | 57                   | 3                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 292    | B33-B18  | 152                  | 8                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 293    | B18-B17  | 42                   | 2                |            |            | 0          |            |           |            |            |            | 8   |                   | 72                 |                            |
| 294    | B34-B17  | 146                  | 7                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 295    | B17-B16  | 49                   | 2                |            |            | 0          |            |           |            |            |            | 7   |                   | 63                 |                            |
| 296    | B22-B16  | 68                   | 3                |            |            | 0          |            |           |            |            |            | 2   |                   | 18                 |                            |
| 297    | B35-B16  | 174                  | 9                |            |            | 0          |            |           |            |            |            | 3   |                   | 27                 |                            |
| 298    | B16-B15  | 36                   |                  |            | 2          | 0          |            |           |            |            |            | 2   | 1                 | 18                 |                            |

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| Sr. No | Line No.    | Length of Sewer Line | No. of Man Holes |            |            |            |            |           |            |            |            |     | No. of Lamp Holes | No. of Vent Shafts | 150 mm i/d Connecting Pipe |
|--------|-------------|----------------------|------------------|------------|------------|------------|------------|-----------|------------|------------|------------|-----|-------------------|--------------------|----------------------------|
|        |             |                      | No. of Man Holes |            |            |            |            |           |            |            |            |     |                   |                    |                            |
|        |             |                      | 200 mm i/d       | 250 mm i/d | 300 mm i/d | 350 mm i/d | 400 mm i/d | 450mm i/d | 500 mm i/d | 600 mm i/d | 700 mm i/d |     |                   |                    |                            |
|        |             |                      | M                | M          | No.        | No.        | No.        | No.       | No.        | No.        | No.        | No. | No.               | No.                | M                          |
| 1      | 2           | 2                    | 4                | 5          | 6          | 7          | 8          | 9         | 10         | 11         | 12         | 13  | 14                | 15                 | M                          |
| 299    | -           | 46                   |                  |            |            | 0          | 2          |           |            |            |            | 2   |                   |                    | 18                         |
| 300    | B15-B14     | 50                   |                  |            |            | 0          | 3          |           |            |            |            | 3   |                   |                    | 27                         |
| 301    | B14-B7      | 46                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   |                    | 18                         |
| 302    | B12-B7      | 64                   |                  |            |            | 0          | 3          |           |            |            |            | 3   |                   |                    | 27                         |
| 303    | B7-B6       | 39                   |                  |            |            | 0          |            |           |            |            |            | 2   | 1                 |                    | 18                         |
| 304    | B11-B6      | 35                   | 2                |            |            | 0          | 2          |           |            |            |            | 2   |                   |                    | 18                         |
| 305    | B6-B5       | 47                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   |                    | 18                         |
| 306    | B10-B5      | 49                   |                  |            |            | 0          | 2          |           |            |            |            | 2   |                   |                    | 18                         |
| 307    | B5-B4       | 47                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   |                    | 18                         |
| 308    | B9-B4       | 28                   |                  |            |            | 0          | 1          |           |            |            |            | 1   | 1                 |                    | 9                          |
| 309    | B4-B3       | 10                   | 1                |            |            | 0          |            |           |            |            |            | 8   |                   |                    | 72                         |
| 310    | B8-B3       | 154                  |                  |            |            | 0          |            |           | 8          |            |            | 1   |                   |                    | 9                          |
| 311    | B3-B2       | 28                   |                  |            |            | 0          |            |           | 1          |            |            | 8   |                   |                    | 72                         |
| 312    | B2-B1       | 156                  |                  |            |            | 0          |            |           | 8          |            |            | 3   |                   |                    | 27                         |
| 313    | 85B1-85A1   | 50                   |                  |            |            | 0          |            |           | 3          |            |            |     |                   |                    |                            |
| 314    | A1-A2       |                      |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 315    | A6-A5       | 49                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   |                    | 18                         |
| 316    | A5-A4       | 97                   | 5                |            |            | 0          |            |           |            |            |            | 5   |                   |                    | 45                         |
| 317    | A4-A2       | 37                   | 2                |            |            | 0          |            |           |            |            |            | 2   |                   |                    | 18                         |
| 318    | A2-X        | 20                   |                  |            |            | 0          |            |           | 1          |            |            | 1   |                   |                    | 9                          |
| 319    | X-STP 2     | 54                   |                  |            |            | 0          |            |           |            |            |            |     |                   |                    |                            |
| 320    | STP2-HUDA   | 40                   |                  |            |            | 0          |            |           |            |            |            | 3   |                   |                    | 27                         |
| 321    | -           | 14736                |                  |            |            | 0          |            |           |            |            |            | 2   |                   |                    | 18                         |
| 322    | -           |                      | 535              | 47         | 46         | 43         | 39         | 0         | 21         | 0          | 5          | 717 | 14                |                    | 6453                       |
| 323    | 83A36-83A37 | 75                   | 4                |            |            |            |            |           |            |            |            | 4   |                   |                    | 36                         |
| 324    | 83A37-83E7  | 23                   | 1                |            |            |            |            |           |            |            |            | 1   |                   |                    | 9                          |
| 325    | E7-A41      | 32                   | 2                |            |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 326    | -           |                      |                  |            |            |            |            |           |            |            |            |     |                   |                    |                            |
| 327    | A38-A40     | 40                   | 2                |            |            |            |            |           |            |            |            | 2   | 1                 |                    | 18                         |
| 328    | A40-A51     | 24                   | 1                |            |            |            |            |           |            |            |            | 1   |                   |                    | 9                          |
| 329    | A51-A41     | 129                  | 6                |            |            |            |            |           |            |            |            | 6   |                   |                    | 54                         |
| 330    | -           |                      |                  |            |            |            |            |           |            |            |            |     |                   |                    |                            |
| 331    | A41-E6      | 17                   | 1                |            |            |            |            |           |            |            |            | 1   |                   |                    | 9                          |
| 332    | E6-E6       | 122                  | 6                |            |            |            |            |           |            |            |            | 6   |                   |                    | 54                         |
| 333    | E6-A42      | 36                   | 2                |            |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 334    | -           |                      |                  |            |            |            |            |           |            |            |            |     |                   |                    |                            |
| 335    | A48-A49     | 25                   | 1                |            |            |            |            |           |            |            |            | 1   |                   |                    | 9                          |
| 336    | A49-A50     | 182                  | 9                |            |            |            |            |           |            |            |            | 9   |                   |                    | 81                         |
| 337    | A50-A42     | 150                  | 8                |            |            |            |            |           |            |            |            | 8   |                   |                    | 72                         |
| 338    | -           |                      |                  |            |            |            |            |           |            |            |            |     |                   |                    |                            |
| 339    | A42-A56     | 13                   | 1                |            |            |            |            |           |            |            |            |     |                   |                    |                            |
| 340    | E3-A56      | 104                  | 5                |            |            |            |            |           |            |            |            | 5   |                   |                    | 45                         |
| 341    | A56-A43     | 43                   | 2                |            |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 342    | A58-A43     | 27                   | 1                |            |            |            |            |           |            |            |            | 1   |                   |                    | 9                          |

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Appurtenances of Waste Water Collection System

| APPURTENANCES OF WASTE WATER COLLECTION SYSTEM |             |                      |                  |            |            |            |            |           |            |            |            |     |                   |                    |                            |
|------------------------------------------------|-------------|----------------------|------------------|------------|------------|------------|------------|-----------|------------|------------|------------|-----|-------------------|--------------------|----------------------------|
| Sr. No                                         | Line No.    | Length of Sewer Line | No. of Man Holes |            |            |            |            |           |            |            |            |     | No. of Lamp Holes | No. of Vent Shafts | 150 mm i/d Connecting Pipe |
|                                                |             |                      | 200 mm i/d       | 250 mm i/d | 300 mm i/d | 350 mm i/d | 400 mm i/d | 450mm i/d | 500 mm i/d | 600 mm i/d | 700 mm i/d |     |                   |                    |                            |
|                                                |             |                      | M                | M          | No.        | No.        | No.        | No.       | No.        | No.        | No.        | No. | No.               | No.                | M                          |
| 1                                              | 2           | 2                    | 4                | 5          | 6          | 7          | 8          | 9         | 10         | 11         | 12         | 13  | 14                | 15                 |                            |
| 335                                            | A43-A57     | 7                    |                  |            |            |            |            |           |            |            |            |     |                   |                    |                            |
| 336                                            | A57-A44     | 47                   | 2                |            |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 337                                            | A54-A44     | 72                   | 4                |            |            |            |            |           |            |            |            | 4   |                   |                    | 36                         |
| 338                                            | A47-A46     | 34                   | 2                |            |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 339                                            | B1-A46      | 30                   | 2                |            |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 340                                            | A46-A45     | 62                   | 3                |            |            |            |            |           |            |            |            | 3   |                   |                    | 27                         |
| 341                                            | A45-A44     | 67                   | 3                |            |            |            |            |           |            |            |            | 3   |                   |                    | 27                         |
| 342                                            | 83A44-83E1  | 217                  | 11               |            |            |            |            |           |            |            |            | 11  |                   |                    | 99                         |
| 343                                            | 83E16-83E15 | 121                  | 6                |            |            |            |            |           |            |            |            | 6   |                   |                    | 54                         |
| 344                                            | E17-E15     | 100                  | 5                |            |            |            |            |           |            |            |            | 5   |                   |                    | 45                         |
| 345                                            | E15-E5      | 67                   | 3                |            |            |            |            |           |            |            |            | 3   | 1                 |                    | 27                         |
| 346                                            | E7-E5       | 160                  | 8                |            |            |            |            |           |            |            |            | 8   |                   |                    | 72                         |
| 347                                            | E5-E4       | 50                   | 3                |            |            |            |            |           |            |            |            | 3   |                   |                    | 27                         |
| 348                                            | E6-E4       | 54                   | 3                |            |            |            |            |           |            |            |            | 3   |                   |                    | 27                         |
| 349                                            | E4-E14      | 122                  | 6                |            |            |            |            |           |            |            |            | 6   |                   |                    | 54                         |
| 350                                            | E14-E13     | 54                   | 3                |            |            |            |            |           |            |            |            | 3   |                   |                    | 27                         |
| 351                                            | E13-E13     | 117                  | 6                |            |            |            |            |           |            |            |            | 6   |                   |                    | 54                         |
| 352                                            | E13-E11     | 20                   | 1                |            |            |            |            |           |            |            |            | 1   |                   |                    | 9                          |
| 353                                            | E12-E11     | 47                   | 2                |            |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 354                                            | E11-E10     | 36                   | 2                |            |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 355                                            | E2-E2       | 109                  | 5                |            |            |            |            |           |            |            |            | 5   |                   |                    | 45                         |
| 356                                            | E2-E10      | 163                  | 8                |            |            |            |            |           |            |            |            | 8   |                   |                    | 72                         |
| 357                                            | E10-E8      | 49                   |                  | 2          |            |            |            |           |            |            |            |     |                   |                    |                            |
| 358                                            | 83E8-83E1   | 163                  |                  | 8          |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 359                                            | 83E1-83B12  | 66                   |                  |            | 3          |            |            |           |            |            |            | 8   |                   |                    | 72                         |
|                                                |             |                      |                  |            |            |            |            |           |            |            |            | 3   |                   |                    | 27                         |
| 360                                            | A52-A53     | 33                   | 2                |            |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 361                                            | A53-B12     | 124                  | 6                |            |            |            |            |           |            |            |            | 6   | 1                 |                    | 54                         |
| 362                                            | 83B12-83B12 | 25                   |                  |            |            |            |            |           |            |            |            |     |                   |                    |                            |
|                                                | SECTOR 84-  |                      |                  |            | 1          |            |            |           |            |            |            | 1   | 1                 |                    | 9                          |
| 363                                            | 84E3-84E2   | 46                   | 2                |            |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 364                                            | E4-E2       | 18                   | 1                |            |            |            |            |           |            |            |            | 1   |                   |                    | 9                          |
| 365                                            | E2-E1       | 20                   | 1                |            |            |            |            |           |            |            |            | 1   |                   |                    | 9                          |
| 366                                            | E1-A7       | 48                   |                  | 2          |            |            |            |           |            |            |            | 2   |                   |                    | 18                         |
| 367                                            | A7-D23      | 95                   |                  | 5          |            |            |            |           |            |            |            | 5   |                   |                    | 45                         |
| 368                                            | D23-D7      | 86                   |                  | 4          |            |            |            |           |            |            |            | 4   |                   |                    | 36                         |
| 369                                            | D20-D7      | 71                   | 4                |            |            |            |            |           |            |            |            | 4   |                   |                    | 36                         |
| 370                                            | D7-D21      | 29                   |                  |            |            |            |            |           |            |            |            |     |                   |                    |                            |
| 371                                            | D21-D22     | 159                  |                  |            | 1          |            |            |           |            |            |            | 1   |                   |                    | 9                          |
| 372                                            | D5-D22      | 43                   | 2                |            | 8          |            |            |           |            |            |            | 8   |                   |                    | 72                         |
| 373                                            | D22-D18     | 47                   |                  |            | 2          |            |            |           |            |            |            | 2   |                   |                    | 18                         |

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Appurtenances of Waste Water Collection System

| Appurtenances of Waste Water Collection System |             |                      |                  |            |            |            |            |           |            |            |            |           |                   |                    |                             |
|------------------------------------------------|-------------|----------------------|------------------|------------|------------|------------|------------|-----------|------------|------------|------------|-----------|-------------------|--------------------|-----------------------------|
| Sr. No                                         | Line No.    | Length of Sewer Line | No. of Man Holes |            |            |            |            |           |            |            |            |           | No. of Lamp Holes | No. of Vent Shafts | 150 mm i/d Connecting Pipes |
|                                                |             |                      | 200 mm i/d       | 250 mm i/d | 300 mm i/d | 350 mm i/d | 400 mm i/d | 450mm i/d | 500 mm i/d | 600 mm i/d | 700 mm i/d |           |                   |                    |                             |
| 1                                              | 2           | 2                    | M<br>4           | M<br>5     | No.<br>6   | No.<br>7   | No.<br>8   | No.<br>9  | No.<br>10  | No.<br>11  | No.<br>12  | No.<br>13 | No.<br>14         | M<br>15            |                             |
| 374                                            | A13-A12     | 3                    |                  |            |            |            |            |           |            |            |            | 0         |                   |                    | 0                           |
| 375                                            | A12-A12     | 53                   | 3                |            |            |            |            |           |            |            |            | 3         |                   |                    | 27                          |
| 376                                            | A12-A11     | 54                   | 3                |            |            |            |            |           |            |            |            | 3         |                   |                    | 27                          |
| 377                                            | A11-A1      | 141                  | 7                |            |            |            |            |           |            |            |            | 7         |                   |                    | 63                          |
| 378                                            | A1-A2       | 53                   | 3                |            |            |            |            |           |            |            |            | 3         |                   |                    | 27                          |
| 379                                            | A2-A2       | 30                   | 2                |            |            |            |            |           |            |            |            | 2         |                   |                    | 18                          |
| 380                                            | D1-A2       | 52                   | 3                |            |            |            |            |           |            |            |            | 3         |                   |                    | 27                          |
| 381                                            | A2-D2       | 62                   | 3                |            |            |            |            |           |            |            |            | 3         | 1                 |                    | 27                          |
| 382                                            | D2-D19      | 116                  | 6                |            |            |            |            |           |            |            |            | 6         |                   |                    | 54                          |
| 383                                            | D19-D18     | 129                  | 6                |            |            |            |            |           |            |            |            | 6         |                   |                    | 54                          |
| 384                                            | D3-D18      | 145                  | 7                |            |            |            |            |           |            |            |            | 7         |                   |                    | 63                          |
| 385                                            | D6-D18      | 42                   | 2                |            |            |            |            |           |            |            |            | 2         |                   |                    | 18                          |
| 386                                            | D18-D17     | 53                   |                  |            | 3          |            |            |           |            |            |            | 3         |                   |                    | 27                          |
| 387                                            | D4-84D17    | 132                  | 7                |            | 4          |            |            |           |            |            |            | 7         |                   |                    | 63                          |
| 388                                            | 84D17-83B5  | 73                   |                  |            |            |            |            |           |            |            |            | 4         |                   |                    | 36                          |
| 389                                            | 83B2-83B3   | 30                   | 2                |            |            |            |            |           |            |            |            | 2         |                   |                    | 18                          |
| 390                                            | B3-B4       | 54                   | 3                |            |            |            |            |           |            |            |            | 3         |                   |                    | 27                          |
| 391                                            | B6-B4       | 62                   | 3                |            |            |            |            |           |            |            |            | 3         |                   |                    | 27                          |
| 392                                            | B4-B5       | 86                   | 4                |            |            |            |            |           |            |            |            | 4         | 1                 |                    | 36                          |
| 393                                            | B5-83B5     | 206                  | 10               |            |            |            |            |           |            |            |            | 10        |                   |                    | 90                          |
| 394                                            | 83B5-83B22  | 84                   |                  |            | 4          |            |            |           |            |            |            | 4         |                   |                    | 36                          |
| 395                                            | B22-B21     | 35                   | 2                |            |            |            |            |           |            |            |            | 2         |                   |                    | 18                          |
| 396                                            | B21-B19     | 18                   |                  |            | 1          |            |            |           |            |            |            | 1         |                   |                    | 9                           |
| 397                                            | B19-B27     | 53                   |                  |            | 3          |            |            |           |            |            |            | 3         |                   |                    | 27                          |
| 398                                            | B27-B17     | 14                   |                  |            | 1          |            |            |           |            |            |            | 1         |                   |                    | 9                           |
| 399                                            | B17-B14     | 55                   |                  |            | 3          |            |            |           |            |            |            | 3         | 1                 |                    | 18                          |
| 400                                            | B14-B13     | 39                   |                  |            | 2          |            |            |           |            |            |            | 2         |                   |                    | 9                           |
| 401                                            | 83B13-83B12 | 16                   |                  |            | 1          |            |            |           |            |            |            | 1         |                   |                    | 9                           |
| 402                                            | 83B12-83C10 | 213                  |                  |            | 11         |            |            |           |            |            |            | 11        |                   |                    | 99                          |
| 403                                            | C11-C10     | 76                   | 4                |            |            |            |            |           |            |            |            | 4         |                   |                    | 36                          |
| 404                                            | 83C10-83C7  | 67                   |                  |            |            |            |            | 3         |            |            |            | 3         |                   |                    | 27                          |
| 405                                            | C13-C6      | 215                  | 11               |            |            |            |            |           |            |            |            | 11        |                   |                    | 99                          |
| 406                                            | 83C6-83C7   | 71                   | 4                |            |            |            |            |           |            |            |            | 4         |                   |                    | 36                          |
| 407                                            | 83C7-83C8   | 31                   |                  |            |            |            |            |           |            | 0          | 2          | 2         |                   |                    | 18                          |
| 408                                            | 83C12-83C8  | 147                  | 7                |            |            |            |            |           |            |            |            | 7         |                   |                    | 63                          |
| 409                                            | 83C8-STP1   | 15                   |                  |            |            |            |            |           |            |            |            | 1         |                   |                    | 9                           |
|                                                |             | 28226                | 1042             | 112        | 128        | 66         | 39         | 4         | 21         | 0          | 0          | 1385      | 38                |                    | 12461                       |
| FOR VATIKA LIMITED                             |             |                      |                  |            |            |            |            |           |            |            |            |           |                   |                    |                             |

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# DESIGN STATEMENT OF RECYCLING

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# Recycling of Treated Waste Water

| Sr No.     | Name of Water Pipe line | Length of Water Pipe | Outer Diameter of Water Pipe line | Net Water Demand to meet from Recycled Water Supply | Design of Pipe Line |          |        |         |                    |                 |                 |                       | Length of pipe |            |            |            |           |           |            |            | No of Sluice Valves |           |            |     |     |     |
|------------|-------------------------|----------------------|-----------------------------------|-----------------------------------------------------|---------------------|----------|--------|---------|--------------------|-----------------|-----------------|-----------------------|----------------|------------|------------|------------|-----------|-----------|------------|------------|---------------------|-----------|------------|-----|-----|-----|
|            |                         |                      |                                   |                                                     | Net Water Demand    |          |        |         | Total Water Demand | Head Loss per M | Total Head Loss | Head Loss Progressive | Terminal Head  | 110 mm o/d | 160 mm o/d | 210 mm o/d | 260 mm od | 310 mm od | 110 mm o/d | 160 mm o/d | 210 mm o/d          | 260mm o/d | 310 mm o/d |     |     |     |
|            |                         |                      |                                   |                                                     | Self                | Previous | Total  | 20 HRS  |                    |                 |                 |                       |                |            |            |            |           |           |            |            |                     |           |            | Mtr | Mtr | Mtr |
| 1          | 2                       | 3                    | 4                                 | 5                                                   | 6                   | 7        | 8      | 9       | 10                 | 11              | 12              | 13                    | 14             | 15         | 16         | 17         | 18        | 19        | 20         | 21         | 22                  | 23        | 24         | 25  | 26  | 27  |
| 1          | STP I-83C8              | 20                   | 250                               | 0                                                   | 0.00                | 685.88   | 685.88 | 1428.91 | 0.0018             | 0.036           | 0.036           | 24.96                 | 0              | 0          | 20         | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 1   | 0   |
| 2          | 83C8-C12                | 157                  | 100                               | 46838                                               | 46.84               | 0.00     | 46.84  | 97.58   | 0.0011             | 0.168           | 0.204           | 24.80                 | 157            | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 3          | C8-C7                   | 31                   | 250                               | 1996                                                | 2.00                | 637.04   | 639.04 | 1331.33 | 0.0016             | 0.048           | 0.084           | 24.92                 | 0              | 0          | 31         | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 1   | 0   |     |
| 4          | C7-C6                   | 71                   | 100                               | 1888                                                | 1.89                | 30.21    | 32.10  | 66.87   | 0.0005             | 0.038           | 0.122           | 24.88                 | 71             | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 5          | C6-C13                  | 225                  | 100                               | 30211                                               | 30.21               | 0.00     | 30.21  | 62.94   | 0.0005             | 0.107           | 0.229           | 24.77                 | 225            | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 6          | C7-C10                  | 67                   | 200                               | 2884                                                | 2.88                | 602.06   | 604.94 | 1260.30 | 0.0042             | 0.280           | 0.364           | 24.64                 | 0              | 0          | 67         | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 1   | 0   | 0   |
| 7          | C10-C11                 | 86                   | 100                               | 4728                                                | 4.73                | 0.00     | 4.73   | 9.85    | 0.0000             | 0.001           | 0.366           | 24.63                 | 86             | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 8          | C10-B12                 | 214                  | 200                               | 12134                                               | 12.13               | 585.20   | 597.33 | 1244.44 | 0.0041             | 0.875           | 1.239           | 23.76                 | 0              | 0          | 214        | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 1   | 0   | 0   |
| 9          | B12-B13                 | 15                   | 200                               | 790                                                 | 0.79                | 223.57   | 224.36 | 467.42  | 0.0007             | 0.010           | 1.249           | 23.75                 | 0              | 0          | 15         | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 10         | B13-B14                 | 39                   | 150                               | 2995                                                | 2.99                | 220.58   | 223.57 | 465.77  | 0.0027             | 0.105           | 1.354           | 23.65                 | 0              | 39         | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 1          | 0   | 0   | 0   |
| 11         | B14-B17                 | 55                   | 150                               | 2592                                                | 2.59                | 217.98   | 220.58 | 459.53  | 0.0026             | 0.144           | 1.498           | 23.50                 | 0              | 55         | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 12         | B17-B27                 | 14                   | 150                               | 275                                                 | 0.27                | 217.71   | 217.98 | 454.13  | 0.0026             | 0.036           | 1.534           | 23.47                 | 0              | 14         | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 13         | B27-B19                 | 53                   | 150                               | 5035                                                | 5.03                | 212.67   | 217.71 | 453.56  | 0.0026             | 0.136           | 1.670           | 23.33                 | 0              | 53         | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 14         | B19-B21                 | 18                   | 150                               | 2386                                                | 2.39                | 210.29   | 212.67 | 443.07  | 0.0025             | 0.044           | 1.714           | 23.29                 | 0              | 18         | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 15         | B21-B22                 | 36                   | 150                               | 481                                                 | 0.48                | 209.81   | 210.29 | 438.10  | 0.0024             | 0.086           | 1.800           | 23.20                 | 0              | 36         | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 16         | B22-B5                  | 84                   | 150                               | 2987                                                | 2.99                | 206.82   | 209.81 | 437.10  | 0.0024             | 0.201           | 2.001           | 23.00                 | 0              | 84         | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 17         | 83B5-B5                 | 206                  | 100                               | 13731                                               | 13.73               | 12.98    | 26.71  | 55.66   | 0.0004             | 0.078           | 2.079           | 22.92                 | 206            | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 18         | B5-B4                   | 86                   | 100                               | 2678                                                | 2.68                | 10.31    | 12.98  | 27.05   | 0.0001             | 0.009           | 2.088           | 22.91                 | 86             | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 19         | B4-B6                   | 71                   | 100                               | 6753                                                | 6.75                | 0.00     | 6.75   | 14.07   | 0.0000             | 0.002           | 2.090           | 22.91                 | 71             | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 20         | B4-B3                   | 53                   | 100                               | 1922                                                | 1.92                | 1.63     | 3.55   | 7.40    | 0.0000             | 0.000           | 2.088           | 22.91                 | 53             | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 21         | B3-B2                   | 38                   | 100                               | 1630                                                | 1.63                | 0.00     | 1.63   | 3.40    | 0.0000             | 0.000           | 2.088           | 22.91                 | 38             | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| SECTOR 84- |                         |                      |                                   |                                                     |                     |          |        |         |                    |                 |                 |                       |                |            |            |            |           |           |            |            |                     |           |            |     |     |     |
| 22         | 83B5-84D17              | 73                   | 150                               | 2472                                                | 2.47                | 177.63   | 180.11 | 375.22  | 0.0018             | 0.132           | 2.132           | 22.87                 | 0              | 73         | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 23         | 84D17-D4                | 137                  | 100                               | 13778                                               | 13.78               | 0.00     | 13.78  | 28.70   | 0.0001             | 0.015           | 2.148           | 22.85                 | 137            | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 24         | D17-D18                 | 53                   | 150                               | 2592                                                | 2.59                | 161.27   | 163.86 | 341.37  | 0.0015             | 0.080           | 2.213           | 22.79                 | 0              | 53         | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 25         | D18-D6                  | 48                   | 100                               | 3055                                                | 3.05                | 0.00     | 3.05   | 6.36    | 0.0000             | 0.000           | 2.213           | 22.79                 | 48             | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |
| 26         | D18-D3                  | 140                  | 100                               | 13507                                               | 13.51               | 0.00     | 13.51  | 28.14   | 0.0001             | 0.015           | 2.228           | 22.77                 | 140            | 0          | 0          | 0          | 0         | 0         | 0          | 0          | 0                   | 0         | 0          | 0   | 0   | 0   |

# Recycling of Treated Waste Water

| Sr No. | Name of Water Pipe line | Length<br>m | Outer Diameter of Water Pipe line<br>mm | Net Water Demand to meet from Recycled Water Supply<br>Litres | Net Water Demand |        |        |        | Design of Pipe Line |                 |                 |                       | Length of pipe |            |            |            |            |           | No of Sticte Valves |            |            |           |            |     |     |     |
|--------|-------------------------|-------------|-----------------------------------------|---------------------------------------------------------------|------------------|--------|--------|--------|---------------------|-----------------|-----------------|-----------------------|----------------|------------|------------|------------|------------|-----------|---------------------|------------|------------|-----------|------------|-----|-----|-----|
|        |                         |             |                                         |                                                               | Previous         |        | Total  | 20 HRS | Total Water Demand  | Head Loss per M | Total Head Loss | Head Loss Progressive | Terminal Head  | 110 mm o/d | 160 mm o/d | 210 mm o/d | 260 mm o/d | 310 mm od | 110 mm o/d          | 160 mm o/d | 210 mm o/d | 260mm o/d | 310 mm o/d |     |     |     |
|        |                         |             |                                         |                                                               | Self             | KLD    | KLD    |        |                     |                 |                 |                       |                |            |            |            |            |           |                     |            |            |           |            | KLD | Mtr | Mtr |
| 1      | 2                       | 3           | 4                                       | 5                                                             | 6                | 7      | 8      | 9      | 10                  | 11              | 12              | 13                    | 14             | 15         | 16         | 17         | 18         | 19        | 20                  | 21         | 22         | 23        | 24         | 25  | 26  | 27  |
| 27     | D18-D19                 | 113         | 100                                     | 8479                                                          | 8.48             | 85.22  | 93.70  | 195.22 | 0.0039              | 0.437           | 2.650           | 22.35                 | 22.35          | 113        | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 28     | D19-D20                 | 56          | 100                                     | 6428                                                          | 6.43             | 0.00   | 6.43   | 13.39  | 0.0000              | 0.002           | 2.651           | 22.35                 | 22.35          | 56         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 29     | D19-D2                  | 117         | 100                                     | 42014                                                         | 42.01            | 36.78  | 78.80  | 164.16 | 0.0028              | 0.329           | 2.979           | 22.02                 | 22.02          | 117        | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 30     | D2-A2                   | 62          | 100                                     | 2094                                                          | 2.09             | 34.69  | 36.78  | 76.63  | 0.0007              | 0.042           | 3.021           | 21.98                 | 21.98          | 62         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 31     | A2-D1                   | 59          | 100                                     | 1939                                                          | 1.94             | 0.00   | 1.94   | 4.04   | 0.0000              | 0.000           | 3.021           | 21.98                 | 21.98          | 59         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 32     | A2-A2                   | 37          | 100                                     | 3141                                                          | 3.14             | 0.00   | 3.14   | 6.54   | 0.0000              | 0.000           | 3.021           | 21.98                 | 21.98          | 37         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 33     | A2-A1                   | 53          | 100                                     | 3844                                                          | 3.84             | 25.76  | 29.61  | 61.68  | 0.0005              | 0.024           | 3.045           | 21.95                 | 21.95          | 53         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 34     | A1-A11                  | 141         | 100                                     | 8796                                                          | 8.80             | 16.97  | 25.76  | 53.68  | 0.0004              | 0.050           | 3.095           | 21.90                 | 21.90          | 141        | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 35     | A11-A12                 | 53          | 100                                     | 11999                                                         | 12.00            | 4.97   | 16.97  | 35.35  | 0.0002              | 0.009           | 3.104           | 21.90                 | 21.90          | 53         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 36     | A12-A12                 | 53          | 100                                     | 3338                                                          | 3.34             | 0.00   | 3.34   | 6.95   | 0.0000              | 0.000           | 3.104           | 21.90                 | 21.90          | 53         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 37     | A12-A13                 | 8           | 100                                     | 1630                                                          | 1.63             | 0.00   | 1.63   | 3.40   | 0.0000              | 0.000           | 3.104           | 21.90                 | 21.90          | 8          | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 38     | D18-D22                 | 46          | 100                                     | 1511                                                          | 1.51             | 49.49  | 51.00  | 106.25 | 0.0013              | 0.058           | 2.270           | 22.73                 | 22.73          | 46         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 39     | D22-D5                  | 50          | 100                                     | 3633                                                          | 3.63             | 0.00   | 3.63   | 7.57   | 0.0000              | 0.000           | 2.271           | 22.73                 | 22.73          | 50         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 40     | D22-D21                 | 160         | 100                                     | 14136                                                         | 14.14            | 31.72  | 45.86  | 95.54  | 0.0010              | 0.165           | 2.435           | 22.56                 | 22.56          | 160        | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 41     | D21-D7                  | 29          | 100                                     | 755                                                           | 0.76             | 30.97  | 31.72  | 66.09  | 0.0005              | 0.015           | 2.450           | 22.55                 | 22.55          | 29         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 42     | D7-A4                   | 87          | 100                                     | 6127                                                          | 6.13             | 0.00   | 6.13   | 12.77  | 0.0000              | 0.002           | 2.452           | 22.55                 | 22.55          | 87         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 43     | D7-D23                  | 87          | 100                                     | 2540                                                          | 2.54             | 22.30  | 24.84  | 51.75  | 0.0003              | 0.029           | 2.479           | 22.52                 | 22.52          | 87         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 44     | D23-A7                  | 95          | 100                                     | 8221                                                          | 8.22             | 14.08  | 22.30  | 46.45  | 0.0003              | 0.026           | 2.505           | 22.50                 | 22.50          | 95         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 45     | A7-E1                   | 47          | 100                                     | 2025                                                          | 2.03             | 12.05  | 14.08  | 29.33  | 0.0001              | 0.005           | 2.510           | 22.49                 | 22.49          | 47         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 46     | E1-E2                   | 20          | 100                                     | 2443                                                          | 2.44             | 9.61   | 12.05  | 25.11  | 0.0001              | 0.002           | 2.512           | 22.49                 | 22.49          | 20         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 47     | E2-E3                   | 46          | 100                                     | 6892                                                          | 6.89             | 0.00   | 6.89   | 14.36  | 0.0000              | 0.001           | 2.513           | 22.49                 | 22.49          | 46         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 48     | 84E2-84E4               | 25          | 100                                     | 2717                                                          | 2.72             | 0.00   | 2.72   | 5.66   | 0.0000              | 0.000           | 2.512           | 22.49                 | 22.49          | 25         | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 49     | B12-B12                 | 24          | 200                                     | 1836                                                          | 1.84             | 359.00 | 360.84 | 751.74 | 0.0016              | 0.039           | 1.278           | 23.72                 | 23.72          | 0          | 0          | 24         | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 1   | 0   | 0   |
| 50     | B12-A52                 | 163         | 100                                     | 17891                                                         | 17.89            | 0.00   | 17.89  | 37.27  | 0.0002              | 0.029           | 1.307           | 23.69                 | 23.69          | 163        | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 51     | B12-E1                  | 67          | 150                                     | 1922                                                          | 1.92             | 339.19 | 341.11 | 710.65 | 0.0059              | 0.394           | 1.671           | 23.33                 | 23.33          | 0          | 67         | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 1          | 0   | 0   | 0   |
| 52     | E1-A44                  | 317         | 150                                     | 24331                                                         | 24.33            | 144.01 | 168.34 | 350.72 | 0.0016              | 0.504           | 2.175           | 22.82                 | 22.82          | 0          | 317        | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 53     | E1-E8                   | 163         | 150                                     | 17137                                                         | 17.14            | 153.71 | 170.84 | 355.93 | 0.0016              | 0.266           | 1.938           | 23.06                 | 23.06          | 0          | 163        | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 54     | E8-E10                  | 50          | 150                                     | 6070                                                          | 6.07             | 147.64 | 153.71 | 320.22 | 0.0013              | 0.067           | 2.005           | 23.00                 | 23.00          | 0          | 50         | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 1          | 0   | 0   | 0   |
| 55     | E10-E2                  | 163         | 100                                     | 20337                                                         | 20.34            | 8.44   | 28.77  | 59.94  | 0.0004              | 0.071           | 2.076           | 22.92                 | 22.92          | 163        | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |
| 56     | E2-E2                   | 109         | 100                                     | 8436                                                          | 8.44             | 0.00   | 8.44   | 17.57  | 0.0000              | 0.005           | 2.081           | 22.92                 | 22.92          | 109        | 0          | 0          | 0          | 0         | 0                   | 0          | 0          | 0         | 0          | 0   | 0   | 0   |

# Recycling of Treated Waste Water

| Sr No. | Name of Water Pipe line | Length of Water Pipe line | Outer Diameter of Water Pipe line | Net Water Demand to meet from Recycled Water Supply | Design of Pipe Line |          |                    |                 | Length of pipe  |                  |               |            |            |            |            | No of Sluice Valves |            |            |            |            |
|--------|-------------------------|---------------------------|-----------------------------------|-----------------------------------------------------|---------------------|----------|--------------------|-----------------|-----------------|------------------|---------------|------------|------------|------------|------------|---------------------|------------|------------|------------|------------|
|        |                         |                           |                                   |                                                     | Net Water Demand    |          | Total Water Demand | Head Loss per M | Total Head Loss | Head Progressive | Terminal Head | 110 mm o/d | 160 mm o/d | 210 mm o/d | 260 mm o/d | 310 mm o/d          | 160 mm o/d | 210 mm o/d | 260 mm o/d | 310 mm o/d |
|        |                         |                           |                                   |                                                     | Self                | Previous |                    |                 |                 |                  |               |            |            |            |            |                     |            |            |            |            |
|        |                         | m                         | mm                                | Litres                                              | KLD                 | KLD      | Total              | 20 HRS          | Mtr             | Mtr              | Mtr           | m          | m          | m          | m          | m                   | No.        | No.        | No.        | No.        |
| 1      | 2                       | 3                         | 4                                 | 5                                                   | 6                   | 7        | 8                  | 9               | 10              | 11               | 12            | 13         | 14         | 15         | 16         | 17                  | 18         | 19         | 20         | 21         |
| 57     | E10-E11                 | 36                        | 150                               | 1030                                                | 1.03                | 117.83   | 118.86             | 247.64          | 0.0008          | 0.030            | 2.035         | 22.97      | 0          | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 58     | E11-E12                 | 51                        | 100                               | 5664                                                | 5.66                | 0.00     | 5.66               | 11.80           | 0.0000          | 0.001            | 2.036         | 22.96      | 51         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 59     | E11-E13                 | 37                        | 150                               | 1974                                                | 1.97                | 110.20   | 112.17             | 233.69          | 0.0007          | 0.028            | 2.063         | 22.94      | 0          | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 60     | E13-E13                 | 100                       | 100                               | 13060                                               | 13.06               | 0.00     | 13.06              | 27.21           | 0.0001          | 0.010            | 2.073         | 22.93      | 100        | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 61     | E13-E14                 | 54                        | 150                               | 1922                                                | 1.92                | 95.21    | 97.14              | 202.37          | 0.0006          | 0.031            | 2.094         | 22.91      | 0          | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 62     | E14-E4                  | 122                       | 100                               | 17042                                               | 17.04               | 78.17    | 95.21              | 198.36          | 0.0040          | 0.436            | 2.580         | 22.42      | 122        | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 63     | E4-E6                   | 53                        | 100                               | 10456                                               | 10.46               | 0.00     | 10.46              | 21.78           | 0.0001          | 0.004            | 2.584         | 22.42      | 53         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 64     | E4-E5                   | 50                        | 100                               | 1682                                                | 1.68                | 66.03    | 67.72              | 141.08          | 0.0021          | 0.106            | 2.686         | 22.31      | 50         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 65     | E5-E7                   | 165                       | 100                               | 40903                                               | 40.90               | 0.00     | 40.90              | 85.21           | 0.0008          | 0.138            | 2.824         | 22.18      | 165        | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 66     | E5-E15                  | 67                        | 100                               | 4188                                                | 4.19                | 20.94    | 25.13              | 52.36           | 0.0003          | 0.023            | 2.709         | 22.29      | 67         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 67     | E15-E16                 | 131                       | 100                               | 11342                                               | 11.34               | 0.00     | 11.34              | 23.63           | 0.0001          | 0.010            | 2.719         | 22.28      | 131        | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 68     | E15-E17                 | 110                       | 100                               | 9602                                                | 9.60                | 0.00     | 9.60               | 20.00           | 0.0001          | 0.006            | 2.715         | 22.28      | 110        | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 69     | A44-A45                 | 80                        | 100                               | 4926                                                | 4.93                | 16.05    | 20.97              | 43.70           | 0.0002          | 0.019            | 2.195         | 22.81      | 80         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 70     | A45-A46                 | 63                        | 100                               | 7750                                                | 7.75                | 8.30     | 16.05              | 33.43           | 0.0001          | 0.009            | 2.204         | 22.80      | 63         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 71     | A46-B1                  | 36                        | 100                               | 3982                                                | 3.98                | 0.00     | 3.98               | 8.30            | 0.0000          | 0.000            | 2.204         | 22.80      | 36         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 72     | A46-A47                 | 39                        | 100                               | 4316                                                | 4.32                | 0.00     | 4.32               | 8.99            | 0.0000          | 0.001            | 2.205         | 22.80      | 39         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 73     | A44-A54                 | 78                        | 100                               | 7989                                                | 7.99                | 0.00     | 7.99               | 16.64           | 0.0000          | 0.003            | 2.179         | 22.82      | 78         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 74     | A44-A57                 | 52                        | 100                               | 4720                                                | 4.72                | 110.33   | 115.05             | 239.69          | 0.0057          | 0.294            | 2.470         | 22.53      | 52         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 75     | A57-A43                 | 10                        | 100                               | 309                                                 | 0.31                | 110.02   | 110.33             | 229.85          | 0.0052          | 0.052            | 2.522         | 22.48      | 10         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 76     | A43-A58                 | 33                        | 100                               | 2901                                                | 2.90                | 0.00     | 2.90               | 6.04            | 0.0000          | 0.000            | 2.572         | 22.48      | 33         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 77     | A43-A56                 | 51                        | 100                               | 6267                                                | 6.27                | 100.85   | 107.12             | 223.17          | 0.0050          | 0.253            | 2.775         | 22.22      | 51         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 78     | A56-E3                  | 104                       | 100                               | 7406                                                | 7.41                | 0.00     | 7.41               | 15.43           | 0.0000          | 0.004            | 2.779         | 22.22      | 104        | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 79     | A56-A42                 | 13                        | 100                               | 1459                                                | 1.46                | 91.99    | 93.45              | 194.68          | 0.0039          | 0.050            | 2.825         | 22.17      | 13         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 80     | A42-A50                 | 150                       | 100                               | 11937                                               | 11.94               | 16.37    | 28.31              | 58.98           | 0.0004          | 0.063            | 2.888         | 22.11      | 150        | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 81     | A50-A49                 | 183                       | 100                               | 5493                                                | 5.49                | 10.88    | 16.37              | 34.11           | 0.0002          | 0.028            | 2.916         | 22.08      | 183        | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 82     | A49-A48                 | 25                        | 100                               | 10878                                               | 10.88               | 0.00     | 10.88              | 22.66           | 0.0001          | 0.002            | 2.918         | 22.08      | 25         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 83     | A42-E6                  | 37                        | 100                               | 2789                                                | 2.79                | 60.89    | 63.68              | 132.67          | 0.0019          | 0.070            | 2.895         | 22.10      | 37         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 84     | E6-E6                   | 126                       | 100                               | 10456                                               | 10.46               | 0.00     | 10.46              | 21.78           | 0.0001          | 0.008            | 2.904         | 22.10      | 126        | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 85     | E6-A41                  | 16                        | 100                               | 2205                                                | 2.21                | 48.23    | 50.44              | 105.07          | 0.0012          | 0.020            | 2.915         | 22.09      | 16         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 86     | A41-E7                  | 55                        | 100                               | 2549                                                | 2.55                | 21.79    | 24.34              | 50.71           | 0.0003          | 0.018            | 2.932         | 22.07      | 55         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 87     | E7-83A37                | 11                        | 100                               | 9157                                                | 9.16                | 12.63    | 21.79              | 45.40           | 0.0003          | 0.003            | 2.935         | 22.06      | 11         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |
| 88     | A37-A36                 | 81                        | 100                               | 12634                                               | 12.63               | 0.00     | 12.63              | 26.32           | 0.0001          | 0.008            | 2.943         | 22.06      | 81         | 0          | 0          | 0                   | 0          | 0          | 0          | 0          |

Sheet No:-3

ky Consultants Pvt. Ltd.

Authorised Signatory

FOR VAIKAL LIMITED

# Recycling of Treated Waste Water

| Sr No. | Name of Water Pipe line | Length of Water Pipe line | Outer Diameter of Water Pipe line | Net Water Demand to meet from Recycled Water Supply | Design of Pipe Line |          |         |                    |                 | Length of pipe  |                  |               |            |            |            | No of Sluice Valves |           |            |            |            |           |            |     |     |     |     |
|--------|-------------------------|---------------------------|-----------------------------------|-----------------------------------------------------|---------------------|----------|---------|--------------------|-----------------|-----------------|------------------|---------------|------------|------------|------------|---------------------|-----------|------------|------------|------------|-----------|------------|-----|-----|-----|-----|
|        |                         |                           |                                   |                                                     | Net Water Demand    |          |         | Total Water Demand | Head Loss per M | Total Head Loss | Head Progressive | Terminal Head | 110 mm o/d | 160 mm o/d | 210 mm o/d | 260 mm od           | 310 mm od | 110 mm o/d | 160 mm o/d | 210 mm o/d | 260mm o/d | 310 mm o/d |     |     |     |     |
|        |                         |                           |                                   |                                                     | Self                | Previous | Total   |                    |                 |                 |                  |               |            |            |            |                     |           |            |            |            |           |            | KLD | KLD | LPM | Mtr |
| 1      | 2                       | 3                         | 4                                 | 5                                                   | 6                   | 7        | 8       | 9                  | 10              | 11              | 12               | 13            | 14         | 15         | 16         | 17                  | 18        | 19         | 20         | 21         | 22        | 23         | 24  | 25  | 26  | 27  |
| 89     | A41-A51                 | 129                       | 100                               | 19994                                               | 19.99               | 3.90     | 23.89   | 49.77              | 0.0003          | 0.040           | 2.955            | 22.05         | 129        | 0          | 0          | 0                   | 0         | 0          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 90     | A51-A40                 | 23                        | 100                               | 893                                                 | 0.89                | 3.00     | 3.90    | 8.12               | 0.0000          | 0.000           | 2.955            | 22.05         | 23         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 91     | 83A40-                  | 38                        | 100                               | 3004                                                | 3.00                | 0.00     | 3.00    | 6.26               | 0.0000          | 0.000           | 2.955            | 22.04         | 38         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
|        | -                       | 6999                      |                                   | 685876.47                                           |                     |          |         |                    |                 |                 |                  |               |            |            |            |                     |           |            |            |            |           |            |     |     |     |     |
| 92     | STP2-X                  | 55                        | 300                               | 8406                                                | 8.41                | 1473.49  | 1481.89 | 3087.27            | 0.0031          | 0.168           | 0.168            | 24.83         | 5479       | 1149       | 320        | 51                  | 0         | 69         | 16         | 4          | 2         | 0          | 0   | 0   | 0   | 1   |
|        | SECTOR 85               |                           |                                   |                                                     |                     |          |         |                    |                 |                 |                  |               |            |            |            |                     |           |            |            |            |           |            |     |     |     | 0   |
| 93     | X-85A2                  | 19                        | 250                               | 8406                                                | 8.41                | 477.20   | 485.60  | 1011.68            | 0.0009          | 0.018           | 0.186            | 24.81         | 0          | 0          | 0          | 19                  | 0         | 0          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 1   |
|        | -                       |                           |                                   |                                                     |                     |          |         |                    |                 |                 |                  |               |            |            |            |                     |           |            |            |            |           |            |     |     |     | 0   |
| 94     | 85A2-85A4               | 38                        | 100                               | 6972                                                | 6.97                | 10.92    | 17.89   | 37.27              | 0.0002          | 0.007           | 0.193            | 24.81         | 38         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 95     | A4-A5                   | 97                        | 100                               | 4680                                                | 4.68                | 6.24     | 10.92   | 22.75              | 0.0001          | 0.007           | 0.200            | 24.80         | 97         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 96     | A5-A6                   | 54                        | 100                               | 6238                                                | 6.24                | 0.00     | 6.24    | 13.00              | 0.0000          | 0.001           | 0.201            | 24.80         | 54         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
|        | -                       |                           |                                   |                                                     |                     |          |         |                    |                 |                 |                  |               |            |            |            |                     |           |            |            |            |           |            |     |     |     | 0   |
| 97     | A2-A1                   | 51                        | 200                               | 790                                                 | 0.79                | 458.52   | 459.31  | 956.89             | 0.0025          | 0.128           | 0.314            | 24.69         | 0          | 0          | 51         | 0                   | 0         | 0          | 0          | 1          | 0         | 0          | 0   | 0   | 0   | 0   |
| 98     | A1-B1                   | 155                       | 200                               | 14770                                               | 14.77               | 443.75   | 458.52  | 955.25             | 0.0025          | 0.388           | 0.702            | 24.30         | 0          | 0          | 155        | 0                   | 0         | 0          | 0          | 1          | 0         | 0          | 0   | 0   | 0   | 0   |
| 99     | B1-B2                   | 28                        | 200                               | 515                                                 | 0.51                | 443.23   | 443.75  | 924.48             | 0.0024          | 0.066           | 0.768            | 24.23         | 0          | 0          | 28         | 0                   | 0         | 0          | 0          | 1          | 0         | 0          | 0   | 0   | 0   | 0   |
| 100    | B2-B3                   | 155                       | 200                               | 10852                                               | 10.85               | 432.38   | 443.23  | 923.40             | 0.0024          | 0.365           | 1.133            | 23.87         | 0          | 0          | 155        | 0                   | 0         | 0          | 0          | 1          | 0         | 0          | 0   | 0   | 0   | 0   |
| 101    | B3-B8                   | 16                        | 100                               | 2446                                                | 2.45                | 0.00     | 2.45    | 5.10               | 0.0000          | 0.000           | 1.133            | 23.87         | 16         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 102    | B3-B4                   | 28                        | 200                               | 1570                                                | 1.57                | 428.37   | 429.94  | 895.70             | 0.0022          | 0.062           | 1.195            | 23.81         | 0          | 0          | 28         | 0                   | 0         | 0          | 0          | 1          | 0         | 0          | 0   | 0   | 0   | 0   |
| 103    | B4-B9                   | 51                        | 100                               | 3836                                                | 3.84                | 0.00     | 3.84    | 7.99               | 0.0000          | 0.001           | 1.195            | 23.80         | 51         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 104    | B4-B5                   | 49                        | 200                               | 1648                                                | 1.65                | 422.88   | 424.53  | 884.44             | 0.0022          | 0.106           | 1.301            | 23.70         | 0          | 0          | 49         | 0                   | 0         | 0          | 0          | 1          | 0         | 0          | 0   | 0   | 0   | 0   |
| 105    | B5-B10                  | 51                        | 100                               | 6367                                                | 6.37                | 0.00     | 6.37    | 13.26              | 0.0000          | 0.001           | 1.303            | 23.70         | 51         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 106    | B5-B6                   | 35                        | 200                               | 1099                                                | 1.10                | 415.42   | 416.52  | 867.74             | 0.0021          | 0.073           | 1.375            | 23.63         | 0          | 0          | 35         | 0                   | 0         | 0          | 0          | 1          | 0         | 0          | 0   | 0   | 0   | 0   |
| 107    | B6-B11                  | 44                        | 100                               | 6041                                                | 6.04                | 0.00     | 6.04    | 12.59              | 0.0000          | 0.001           | 1.376            | 23.62         | 44         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 108    | B6-B7                   | 64                        | 200                               | 2300                                                | 2.30                | 407.08   | 409.38  | 852.87             | 0.0020          | 0.130           | 1.504            | 23.50         | 0          | 0          | 64         | 0                   | 0         | 0          | 0          | 1          | 0         | 0          | 0   | 0   | 0   | 0   |
| 109    | B7-B12                  | 50                        | 100                               | 3836                                                | 3.84                | 0.00     | 3.84    | 7.99               | 0.0000          | 0.001           | 1.505            | 23.50         | 50         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 110    | B7-B14                  | 50                        | 150                               | 6848                                                | 6.85                | 396.39   | 403.24  | 840.08             | 0.0080          | 0.401           | 1.905            | 23.09         | 0          | 50         | 0          | 0                   | 0         | 0          | 1          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 111    | B14-B15                 | 45                        | 150                               | 1442                                                | 1.44                | 394.95   | 396.39  | 825.82             | 0.0078          | 0.349           | 2.255            | 22.75         | 0          | 45         | 0          | 0                   | 0         | 0          | 1          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
|        | -                       |                           |                                   |                                                     |                     |          |         |                    |                 |                 |                  |               |            |            |            |                     |           |            |            |            |           |            |     |     |     | 0   |
|        | -                       |                           |                                   |                                                     |                     |          |         |                    |                 |                 |                  |               |            |            |            |                     |           |            |            |            |           |            |     |     |     | 0   |
| 112    | B15-B36                 | 178                       | 150                               | 17517                                               | 17.52               | 177.85   | 195.36  | 407.01             | 0.0021          | 0.373           | 2.627            | 22.37         | 0          | 178        | 0          | 0                   | 0         | 0          | 1          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 113    | B36-C1                  | 67                        | 150                               | 3467                                                | 3.47                | 174.38   | 177.85  | 370.51             | 0.0018          | 0.118           | 2.745            | 22.25         | 0          | 67         | 0          | 0                   | 0         | 0          | 1          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 114    | C1-C2                   | 40                        | 150                               | 1030                                                | 1.03                | 173.35   | 174.38  | 363.29             | 0.0017          | 0.068           | 2.813            | 22.19         | 0          | 40         | 0          | 0                   | 0         | 0          | 1          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
|        | -                       |                           |                                   |                                                     |                     |          |         |                    |                 |                 |                  |               |            |            |            |                     |           |            |            |            |           |            |     |     |     | 0   |
| 115    | C2-C15                  | 25                        | 100                               | 996                                                 | 1.00                | 29.85    | 30.84   | 64.25              | 0.0005          | 0.012           | 2.826            | 22.17         | 25         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 116    | C15-C19                 | 46                        | 100                               | 7526                                                | 7.53                | 0.00     | 7.53    | 15.68              | 0.0000          | 0.002           | 2.827            | 22.17         | 46         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 117    | C15-C16                 | 49                        | 100                               | 4720                                                | 4.72                | 17.60    | 22.32   | 46.50              | 0.0003          | 0.013           | 2.839            | 22.16         | 49         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |
| 118    | C16-C18                 | 36                        | 100                               | 4282                                                | 4.28                | 0.00     | 4.28    | 8.92               | 0.0000          | 0.000           | 2.839            | 22.16         | 36         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          | 0   | 0   | 0   | 0   |

# Recycling of Treated Waste Water

| Sr No. | Name of Water Pipe line | Length of Water Pipe line | Outer Diameter of Water Pipe line | Net Water Demand to meet from Recycled Water Supply | Design of Pipe Line |          |        |                    |                 | Length of pipe  |                       |               |            |            |            | No of Sluice Valves |           |            |            |            |           |            |        |
|--------|-------------------------|---------------------------|-----------------------------------|-----------------------------------------------------|---------------------|----------|--------|--------------------|-----------------|-----------------|-----------------------|---------------|------------|------------|------------|---------------------|-----------|------------|------------|------------|-----------|------------|--------|
|        |                         |                           |                                   |                                                     | Net Water Demand    |          |        | Total Water Demand | Head Loss per M | Total Head Loss | Head Loss Progressive | Terminal Head | 110 mm o/d | 160 mm o/d | 210 mm o/d | 260 mm od           | 310 mm od | 110 mm o/d | 160 mm o/d | 210 mm o/d | 260mm o/d | 310 mm o/d |        |
|        |                         |                           |                                   |                                                     | Self                | Previous | Total  |                    |                 |                 |                       |               |            |            |            |                     |           |            |            |            |           |            | 20 HRS |
|        |                         |                           | mm                                | Litres                                              | KLD                 | KLD      | KLD    | LPM                | Mtr             | Mtr             | Mtr                   | Mtr           | m          | m          | m          | m                   | m         | m          | No.        | No.        | No.       | No.        | No.    |
| 1      | 2                       | 3                         | 4                                 | 5                                                   | 6                   | 7        | 8      | 9                  | 10              | 11              | 12                    | 13            | 18         | 19         | 20         | 21                  | 22        | 23         | 24         | 25         | 26        | 27         |        |
| 119    | C16-C17                 | 41                        | 100                               | 13319                                               | 13.32               | 0.00     | 13.32  | 27.75              | 0.0001          | 0.004           | 2.843                 | 22.16         | 41         | 0          | 0          | 0                   | 0         | 0          | 0          | 0          | 0         | 0          |        |
| 120    | C2-C3                   | 33                        | 150                               | 893                                                 | 0.89                | 141.61   | 142.51 | 296.89             | 0.0012          | 0.039           | 2.852                 | 22.15         | 0          | 33         | 0          | 0                   | 0         | 0          | 1          | 0          | 0         | 0          |        |
| 121    | C3-B40                  | 18                        | 100                               | 1030                                                | 1.03                | 37.32    | 38.35  | 79.89              | 0.0007          | 0.013           | 2.865                 | 22.13         | 18         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 122    | B40-B41                 | 140                       | 100                               | 17288                                               | 17.29               | 0.00     | 17.29  | 36.02              | 0.0002          | 0.024           | 2.889                 | 22.11         | 140        | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 123    | B40-B42                 | 153                       | 100                               | 20028                                               | 20.03               | 0.00     | 20.03  | 41.73              | 0.0002          | 0.034           | 2.899                 | 22.10         | 153        | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 124    | C3-C4                   | 20                        | 150                               | 893                                                 | 0.89                | 102.38   | 103.27 | 215.14             | 0.0006          | 0.013           | 2.865                 | 22.14         | 0          | 20         | 0          | 0                   | 0         | 0          | 1          | 0          | 0         | 0          |        |
| 125    | C4-C20                  | 94                        | 100                               | 14373                                               | 14.37               | 0.00     | 14.37  | 29.94              | 0.0001          | 0.011           | 2.876                 | 22.12         | 94         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 126    | C4-C5                   | 16                        | 150                               | 790                                                 | 0.79                | 87.21    | 88.00  | 183.34             | 0.0005          | 0.008           | 2.872                 | 22.13         | 0          | 16         | 0          | 0                   | 0         | 0          | 0          | 0          | 0         | 0          |        |
| 127    | C5-B37                  | 141                       | 100                               | 9457                                                | 9.46                | 9.25     | 18.71  | 38.97              | 0.0002          | 0.028           | 2.900                 | 22.10         | 141        | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 128    | B37-B38                 | 27                        | 100                               | 961                                                 | 0.96                | 8.29     | 9.25   | 19.27              | 0.0001          | 0.001           | 2.901                 | 22.10         | 27         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 129    | B38-B39                 | 94                        | 100                               | 8290                                                | 8.29                | 0.00     | 8.29   | 17.27              | 0.0000          | 0.004           | 2.905                 | 22.09         | 94         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 130    | C5-C6                   | 65                        | 150                               | 8542                                                | 8.54                | 59.96    | 68.51  | 142.72             | 0.0003          | 0.020           | 2.892                 | 22.11         | 0          | 65         | 0          | 0                   | 0         | 0          | 1          | 0          | 0         | 0          |        |
| 131    | C6-C9                   | 50                        | 150                               | 16170                                               | 16.17               | 43.79    | 59.96  | 124.92             | 0.0002          | 0.012           | 2.904                 | 22.10         | 0          | 50         | 0          | 0                   | 0         | 0          | 1          | 0          | 0         | 0          |        |
| 132    | C9-C7                   | 118                       | 100                               | 9379                                                | 9.38                | 0.00     | 9.38   | 19.54              | 0.0001          | 0.006           | 2.910                 | 22.09         | 118        | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 133    | C9-C10                  | 58                        | 100                               | 3261                                                | 3.26                | 31.15    | 34.41  | 71.70              | 0.0006          | 0.035           | 2.939                 | 22.06         | 58         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 134    | C10-C14                 | 108                       | 100                               | 11250                                               | 11.25               | 0.00     | 11.25  | 23.44              | 0.0001          | 0.008           | 2.947                 | 22.05         | 108        | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 135    | C10-C17                 | 60                        | 100                               | 10786                                               | 10.79               | 0.00     | 10.79  | 22.47              | 0.0001          | 0.004           | 2.943                 | 22.06         | 60         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 136    | C10-C11                 | 55                        | 100                               | 5032                                                | 5.03                | 4.08     | 9.12   | 18.99              | 0.0001          | 0.003           | 2.942                 | 22.06         | 55         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 137    | C11-C21                 | 23                        | 100                               | 4085                                                | 4.08                | 0.00     | 4.08   | 8.51               | 0.0000          | 0.000           | 2.942                 | 22.06         | 23         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 138    | B15-B16                 | 36                        | 150                               | 4330                                                | 4.33                | 195.26   | 199.59 | 415.81             | 0.0022          | 0.078           | 2.333                 | 22.67         | 0          | 36         | 0          | 0                   | 0         | 0          | 1          | 0          | 0         | 0          |        |
| 139    | B16-B22                 | 73                        | 100                               | 9450                                                | 9.45                | 0.00     | 9.45   | 19.69              | 0.0001          | 0.004           | 2.337                 | 22.66         | 73         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 140    | B16-B35                 | 173                       | 100                               | 31084                                               | 31.08               | 0.00     | 31.08  | 64.76              | 0.0005          | 0.087           | 2.420                 | 22.58         | 173        | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 141    | B16-B17                 | 49                        | 150                               | 2741                                                | 2.74                | 151.98   | 154.72 | 322.34             | 0.0014          | 0.067           | 2.400                 | 22.60         | 0          | 49         | 0          | 0                   | 0         | 0          | 1          | 0          | 0         | 0          |        |
| 142    | B17-B34                 | 148                       | 100                               | 29117                                               | 29.12               | 0.00     | 29.12  | 60.66              | 0.0004          | 0.066           | 2.465                 | 22.53         | 148        | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 143    | B17-B18                 | 42                        | 100                               | 1465                                                | 1.47                | 121.40   | 122.86 | 255.97             | 0.0064          | 0.268           | 2.668                 | 22.33         | 42         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 144    | B18-B33                 | 154                       | 100                               | 25201                                               | 25.20               | 0.00     | 25.20  | 52.50              | 0.0003          | 0.052           | 2.721                 | 22.28         | 154        | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 145    | B18-B23                 | 61                        | 100                               | 8987                                                | 8.99                | 0.00     | 8.99   | 18.72              | 0.0001          | 0.003           | 2.671                 | 22.33         | 61         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 146    | B18-B19                 | 39                        | 100                               | 2581                                                | 2.58                | 84.63    | 87.21  | 181.69             | 0.0034          | 0.132           | 2.800                 | 22.20         | 39         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 147    | B19-B31                 | 120                       | 100                               | 21229                                               | 21.23               | 0.00     | 21.23  | 44.23              | 0.0002          | 0.030           | 2.830                 | 22.17         | 120        | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 148    | B19-B20                 | 40                        | 100                               | 3793                                                | 3.79                | 59.61    | 63.40  | 132.09             | 0.0019          | 0.075           | 2.875                 | 22.12         | 40         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 149    | B20-B30                 | 87                        | 100                               | 15869                                               | 15.87               | 0.00     | 15.87  | 33.06              | 0.0001          | 0.013           | 2.888                 | 22.11         | 87         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 150    | B20-B24                 | 53                        | 100                               | 7723                                                | 7.72                | 0.00     | 7.72   | 16.09              | 0.0000          | 0.002           | 2.877                 | 22.12         | 53         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |
| 151    | B20-B21                 | 48                        | 100                               | 4114                                                | 4.11                | 31.90    | 36.02  | 75.03              | 0.0007          | 0.032           | 2.907                 | 22.09         | 48         | 0          | 0          | 0                   | 0         | 1          | 0          | 0          | 0         | 0          |        |