

Details of Navigational Buoys in NW.3

| Sl.No. | Buoy No. | Colour | Easting | Northing |
|---|----------|--------|-----------|------------|
| <u>Name of Stretch: Udyogmandal Canal</u> | | | | |
| 1 | R1 | Red | 639734.85 | 1102679.94 |
| 2 | G2 | Green | 639801.50 | 1102807.37 |
| 3 | R3 | Red | 639266.43 | 1103153.28 |
| 4 | G4 | Green | 639363.72 | 1103239.75 |
| 5 | R5 | Red | 639139.70 | 1103497.87 |
| 6 | G6 | Green | 639258.42 | 1103507.54 |
| 7 | G7 | Green | 638888.31 | 1105054.30 |
| 8 | R8 | Red | 638700.01 | 1105232.45 |
| 9 | G9 | Green | 638689.25 | 1105656.34 |
| 10 | G10 | Green | 638509.35 | 1106356.06 |
| 11 | R11 | Red | 638289.06 | 1107107.23 |
| 12 | G12 | Green | 638238.89 | 1107803.76 |
| 13 | R13 | Red | 637911.02 | 1108027.37 |
| 14 | G14 | Green | 637874.63 | 1108465.91 |
| 15 | R15 | Red | 638079.01 | 1109003.06 |
| 16 | G16 | Green | 638564.82 | 1109038.10 |
| 17 | R17 | Red | 639046.11 | 1109299.84 |
| 18 | G18 | Green | 639073.92 | 1109193.04 |
| 19 | R19 | Red | 638988.43 | 1110044.26 |
| 20 | G20 | Green | 638925.65 | 1110690.98 |
| 21 | R21 | Red | 638643.51 | 1110903.70 |
| 22 | G22 | Green | 638735.44 | 1111222.92 |
| 23 | R23 | Red | 638991.47 | 1112095.74 |
| 24 | G24 | Green | 639951.65 | 1112269.04 |
| 25 | G25 | Green | 640320.18 | 1112386.60 |
| 26 | R26 | Red | 640317.83 | 1112989.31 |
| 27 | R27 | Red | 640746.86 | 1114448.96 |
| 28 | G28 | Green | 640902.95 | 1114702.09 |
| 29 | G29 | Green | 640684.96 | 1115327.93 |
| 30 | G30 | Green | 640727.55 | 1116109.61 |
| 31 | R31 | Red | 641026.59 | 1116340.93 |
| 32 | R32 | Red | 641786.40 | 1116244.66 |
| 33 | R33 | Red | 642178.41 | 1115499.71 |
| 34 | R34 | Red | 642388.10 | 1114671.10 |
| 35 | G35 | Green | 642594.34 | 1114253.51 |
| 36 | G36 | Green | 643071.73 | 1114093.20 |

Name of Stretch: Champakkara Canal

| | | | | |
|----|-----|-------|-----------|------------|
| 37 | R37 | Red | 642704.61 | 1097419.96 |
| 38 | G38 | Green | 642736.20 | 1097287.37 |
| 39 | G39 | Green | 643033.67 | 1097391.76 |
| 40 | R40 | Red | 643030.79 | 1097659.01 |
| 41 | G41 | Green | 643038.68 | 1097976.07 |
| 42 | R42 | Red | 642889.39 | 1098299.89 |
| 43 | G43 | Green | 643019.91 | 1098567.66 |

| | | | | |
|----|-----|-------|-----------|------------|
| 44 | R44 | Red | 642999.34 | 1098687.39 |
| 45 | G45 | Green | 643211.19 | 1099648.53 |
| 46 | R46 | Red | 643349.32 | 1099838.93 |
| 47 | G47 | Green | 643972.84 | 1100202.66 |
| 48 | R48 | Red | 644053.60 | 1100575.31 |
| 49 | G49 | Green | 644128.63 | 1100546.11 |
| 50 | G50 | Green | 645703.59 | 1101053.75 |
| 51 | G51 | Green | 645737.37 | 1101287.98 |
| 52 | R52 | Red | 645677.14 | 1101269.30 |
| 53 | R53 | Red | 645369.33 | 1101476.35 |
| 54 | G54 | Green | 645282.32 | 1101756.17 |
| 55 | G55 | Green | 645222.81 | 1102015.83 |
| 56 | R56 | Red | 645006.76 | 1102125.56 |
| 57 | G57 | Green | 645029.66 | 1102337.62 |
| 58 | G58 | Green | 645233.16 | 1103081.25 |
| 59 | R59 | Red | 645265.45 | 1103230.68 |
| 60 | G60 | Green | 645700.29 | 1103239.80 |
| 61 | R61 | Red | 645915.42 | 1103360.47 |
| 62 | R62 | Red | 646609.04 | 1103536.54 |
| 63 | G63 | Green | 647188.30 | 1103527.83 |
| 64 | R64 | Red | 647487.93 | 1103986.17 |
| 65 | R65 | Red | 647455.58 | 1104301.23 |
| 66 | R66 | Red | 647625.86 | 1104663.20 |
| 67 | G67 | Green | 648003.47 | 1104812.20 |
| 68 | G68 | Green | 648509.42 | 1104854.82 |
| 69 | R69 | Red | 649058.27 | 1104683.81 |
| 70 | G70 | Green | 649057.21 | 1104495.80 |
| 71 | R71 | Red | 649038.69 | 1104112.33 |
| 72 | G72 | Green | 648913.81 | 1103822.42 |
| 73 | R73 | Red | 649019.72 | 1103395.23 |
| 74 | G74 | Green | 648957.91 | 1103317.56 |
| 75 | G75 | Green | 648849.16 | 1103101.45 |

Name of Stretch: Kochi - Kottappuram

| | | | | |
|----|-----|-------|-----------|------------|
| 76 | R76 | Red | 631178.93 | 1127792.55 |
| 77 | G77 | Green | 628870.31 | 1126027.48 |
| 78 | R78 | Red | 629006.89 | 1125524.43 |
| 79 | G79 | Green | 629068.26 | 1124968.02 |
| 80 | R80 | Red | 629218.20 | 1124709.24 |
| 81 | R81 | Red | 629551.21 | 1124474.90 |
| 82 | R82 | Red | 629636.87 | 1124269.52 |
| 83 | G83 | Green | 630318.39 | 1123809.38 |
| 84 | G84 | Green | 630776.12 | 1123628.40 |
| 85 | G85 | Green | 630852.87 | 1123414.70 |
| 86 | R86 | Red | 630814.58 | 1122970.05 |
| 87 | G87 | Green | 631019.68 | 1122647.09 |
| 88 | R88 | Red | 631007.21 | 1122610.18 |
| 89 | G89 | Green | 631346.74 | 1122399.28 |
| 90 | G90 | Green | 631436.33 | 1122122.59 |
| 91 | R91 | Red | 631396.91 | 1121620.00 |

| | | | | |
|-----|------|-------|-----------|------------|
| 92 | G93 | Green | 632192.61 | 1120542.95 |
| 93 | G94 | Green | 632322.52 | 1120018.41 |
| 94 | R95 | Red | 632443.99 | 1119173.96 |
| 95 | G96 | Green | 632660.16 | 1118406.72 |
| 96 | R97 | Red | 632879.25 | 1117792.51 |
| 97 | G98 | Green | 633452.77 | 1117484.96 |
| 98 | R99 | Red | 633715.37 | 1117054.09 |
| 99 | G100 | Green | 633937.15 | 1116699.74 |
| 100 | R101 | Red | 633852.23 | 1115717.76 |
| 101 | G102 | Green | 634186.23 | 1115102.65 |
| 102 | R103 | Red | 634249.79 | 1114907.89 |
| 103 | R104 | Red | 634527.02 | 1114285.02 |
| 104 | G105 | Green | 634816.53 | 1113752.32 |
| 105 | R106 | Red | 635179.24 | 1111727.68 |
| 106 | R107 | Red | 635876.47 | 1110717.86 |
| 107 | G108 | Green | 636239.94 | 1110541.74 |
| 108 | R109 | Red | 636392.77 | 1110172.76 |
| 109 | G110 | Green | 636424.55 | 1109740.29 |
| 110 | R111 | Red | 635963.77 | 1109271.12 |
| 111 | R112 | Red | 635874.32 | 1109013.85 |
| 112 | R113 | Red | 635814.23 | 1108280.41 |
| 113 | G114 | Green | 635705.00 | 1107644.48 |
| 114 | G115 | Green | 635768.08 | 1106757.42 |
| 115 | G116 | Green | 636015.71 | 1106153.24 |
| 116 | G117 | Green | 636142.64 | 1104953.63 |
| 117 | R118 | Red | 636268.64 | 1104145.51 |
| 118 | G119 | Green | 636470.01 | 1103411.96 |
| 119 | R120 | Red | 641355.22 | 1099512.11 |
| 120 | G121 | Green | 641101.08 | 1099498.96 |
| 121 | G122 | Green | 641507.13 | 1098678.09 |
| 122 | R123 | Red | 641805.09 | 1098729.21 |
| 123 | R92 | Red | 631812.40 | 1120971.57 |

Name of Stretch: Kochi - Thanneermukkom

| | | | | |
|-----|------|-------|-----------|------------|
| 124 | R124 | Red | 642239.52 | 1097652.23 |
| 125 | G125 | Green | 642270.13 | 1097302.14 |
| 126 | G126 | Green | 642461.90 | 1096864.21 |
| 127 | R127 | Red | 642588.01 | 1096392.84 |
| 128 | R128 | Red | 642750.32 | 1096013.78 |
| 129 | G129 | Green | 642368.50 | 1095509.10 |
| 130 | R130 | Red | 642428.40 | 1095148.06 |
| 131 | G131 | Green | 642406.53 | 1094663.22 |
| 132 | R132 | Red | 642775.96 | 1094130.14 |
| 133 | R133 | Red | 643190.72 | 1093694.92 |
| 134 | R134 | Red | 643525.83 | 1093062.18 |
| 135 | R135 | Red | 643887.45 | 1092667.31 |
| 136 | G136 | Green | 644117.74 | 1092201.88 |
| 137 | G137 | Green | 644529.50 | 1092072.64 |
| 138 | R138 | Red | 645019.89 | 1091932.65 |
| 139 | R139 | Red | 645892.41 | 1091764.70 |

| | | | | |
|-----|------|-------|-----------|------------|
| 140 | R140 | Red | 646507.11 | 1091625.22 |
| 141 | R141 | Red | 646888.75 | 1091259.95 |
| 142 | R142 | Red | 647364.07 | 1090329.19 |
| 143 | G143 | Green | 647244.78 | 1089537.97 |
| 144 | R144 | Red | 647270.04 | 1088708.62 |
| 145 | G145 | Green | 647221.85 | 1087961.93 |
| 146 | R146 | Red | 647318.29 | 1087615.79 |
| 147 | G147 | Green | 647934.50 | 1087120.59 |
| 148 | G148 | Green | 648824.30 | 1087231.09 |
| 149 | R149 | Red | 649590.75 | 1086659.11 |
| 150 | R150 | Red | 650113.24 | 1086292.59 |
| 151 | G151 | Green | 650384.34 | 1085713.08 |
| 152 | R152 | Red | 650365.77 | 1085335.14 |
| 153 | G153 | Green | 649646.58 | 1084163.60 |
| 154 | R154 | Red | 649480.72 | 1083587.84 |
| 155 | G155 | Green | 649466.32 | 1082629.31 |
| 156 | R156 | Red | 649898.08 | 1081655.99 |
| 157 | R157 | Red | 650194.70 | 1081100.53 |
| 158 | G158 | Green | 650166.44 | 1080403.68 |
| 159 | R159 | Red | 650555.70 | 1079999.75 |
| 160 | G160 | Green | 650850.75 | 1079385.31 |
| 161 | G161 | Green | 651122.03 | 1078770.77 |
| 162 | R162 | Red | 651178.26 | 1077985.78 |
| 163 | G163 | Green | 651084.51 | 1077207.56 |
| 164 | R164 | Red | 651181.69 | 1076693.69 |
| 165 | G165 | Green | 650795.35 | 1075917.96 |
| 166 | R166 | Red | 650741.56 | 1075204.42 |
| 167 | G167 | Green | 650481.02 | 1074515.84 |
| 168 | R168 | Red | 650550.19 | 1073236.92 |
| 169 | G169 | Green | 650545.74 | 1073434.13 |
| 170 | R170 | Red | 650852.14 | 1073186.53 |
| 171 | G171 | Green | 651137.63 | 1072682.64 |
| 172 | R172 | Red | 651823.26 | 1072274.38 |
| 173 | G173 | Green | 652416.43 | 1071668.54 |
| 174 | R174 | Red | 653066.85 | 1071379.96 |
| 175 | G175 | Green | 653489.64 | 1070854.53 |
| 176 | R176 | Red | 653900.07 | 1070670.05 |
| 177 | G177 | Green | 654022.56 | 1070237.39 |
| 178 | R178 | Red | 654332.50 | 1070030.39 |
| 179 | G179 | Green | 654198.36 | 1069738.60 |
| 180 | G180 | Green | 652741.60 | 1069072.74 |
| 181 | G181 | Green | 652953.95 | 1070367.56 |

Name of Stretch: Thanneermukkom- Alappuzha

| | | | | |
|-----|------|-------|-----------|------------|
| 182 | R182 | Red | 653913.47 | 1068969.53 |
| 183 | G183 | Green | 653844.47 | 1069069.89 |
| 184 | G184 | Green | 652758.37 | 1069445.14 |
| 185 | G185 | Green | 653013.18 | 1067956.85 |
| 186 | R186 | Red | 652727.38 | 1067175.99 |
| 187 | G187 | Green | 652338.65 | 1066514.54 |

| | | | | |
|-----|------|-------|-----------|------------|
| 188 | R188 | Red | 652215.67 | 1065900.24 |
| 189 | G189 | Green | 651860.98 | 1065227.87 |
| 190 | R190 | Red | 650563.49 | 1064473.19 |
| 191 | G191 | Green | 651331.42 | 1063780.65 |
| 192 | R192 | Red | 651039.53 | 1062673.54 |
| 193 | G193 | Green | 650781.00 | 1061774.86 |
| 194 | R194 | Red | 650614.25 | 1060700.15 |
| 195 | G195 | Green | 650370.00 | 1059836.92 |
| 196 | R196 | Red | 650212.80 | 1058838.83 |
| 197 | G197 | Green | 649959.58 | 1057877.99 |
| 198 | R198 | Red | 649963.23 | 1056955.29 |
| 199 | G199 | Green | 649581.79 | 1056024.81 |
| 200 | R200 | Red | 649425.30 | 1060669.06 |
| 201 | G201 | Green | 649214.52 | 1054231.77 |
| 202 | R202 | Red | 649157.70 | 1053603.76 |
| 203 | R203 | Red | 666278.45 | 1052135.68 |
| 204 | R204 | Red | 665606.20 | 1051452.56 |
| 205 | R205 | Red | 664983.29 | 1050819.63 |
| 206 | R206 | Red | 664709.82 | 1050541.77 |
| 207 | G207 | Green | 664408.29 | 1050235.40 |
| 208 | G208 | Green | 664546.76 | 1050376.09 |

Name of Stretch: Alappuzha- Kayamkulam

| | | | | |
|-----|------|-------|-----------|------------|
| 209 | R209 | Red | 650011.54 | 1050053.94 |
| 210 | R210 | Red | 649926.57 | 1049599.85 |
| 211 | G211 | Green | 649714.59 | 1048671.48 |
| 212 | G212 | Green | 649673.16 | 1048221.40 |
| 213 | R213 | Red | 649884.93 | 1047412.66 |
| 214 | G214 | Green | 649504.02 | 1046930.92 |
| 215 | R215 | Red | 649661.44 | 1046092.87 |
| 216 | R216 | Red | 649644.57 | 1045484.63 |
| 217 | G217 | Green | 649974.26 | 1044380.79 |
| 218 | R218 | Red | 650528.31 | 1044102.82 |
| 219 | G219 | Green | 650343.35 | 1043686.11 |
| 220 | G220 | Green | 650645.36 | 1043053.11 |
| 221 | R221 | Red | 651014.30 | 1042495.10 |
| 222 | G222 | Green | 650960.06 | 1041705.47 |
| 223 | R223 | Red | 651455.69 | 1041255.63 |
| 224 | G224 | Green | 651494.81 | 1040606.99 |
| 225 | R225 | Red | 652034.35 | 1039828.70 |
| 226 | G226 | Green | 652519.06 | 1038882.49 |
| 227 | G227 | Green | 653476.31 | 1038627.99 |
| 228 | R228 | Red | 654191.31 | 1039013.86 |
| 229 | R229 | Red | 655423.17 | 1038800.28 |
| 230 | G230 | Green | 656251.84 | 1037838.98 |
| 231 | R231 | Red | 656744.37 | 1037622.74 |
| 232 | R232 | Red | 657078.58 | 1036439.27 |
| 233 | G233 | Green | 656182.43 | 1035965.27 |
| 234 | G234 | Green | 656227.19 | 1035145.00 |
| 235 | R235 | Red | 656850.98 | 1034742.57 |

| | | | | |
|-----|------|-------|-----------|------------|
| 236 | G236 | Green | 656800.10 | 1034022.87 |
| 237 | R237 | Red | 657069.34 | 1033870.25 |
| 238 | G238 | Green | 656912.73 | 1033519.82 |
| 239 | R239 | Red | 657357.93 | 1032022.55 |
| 240 | R240 | Red | 656677.55 | 1031844.23 |
| 241 | G241 | Green | 656118.44 | 1031950.14 |
| 242 | R242 | Red | 655658.85 | 1031765.90 |
| 243 | R243 | Red | 654512.33 | 1031360.31 |
| 244 | G244 | Green | 652544.03 | 1030577.83 |
| 245 | G245 | Green | 652993.77 | 1028699.55 |
| 246 | R246 | Red | 653328.28 | 1028481.74 |
| 247 | R247 | Red | 653556.13 | 1028020.69 |
| 248 | G248 | Green | 653594.26 | 1027579.60 |
| 249 | G249 | Green | 653847.33 | 1027227.49 |
| 250 | R250 | Red | 654364.67 | 1026500.48 |
| 251 | G251 | Green | 654314.00 | 1025774.92 |
| 252 | G252 | Green | 654721.42 | 1024828.11 |
| 253 | R253 | Red | 655011.62 | 1024701.86 |
| 254 | G254 | Green | 655327.33 | 1024348.23 |
| 255 | R255 | Red | 655373.94 | 1024284.76 |
| 256 | G256 | Green | 655028.97 | 1023952.94 |
| 257 | G257 | Green | 655306.58 | 1023326.10 |
| 258 | R258 | Red | 655485.93 | 1022875.05 |
| 259 | G259 | Green | 656446.41 | 1021446.18 |
| 260 | R260 | Red | 657147.96 | 1020623.59 |
| 261 | G261 | Green | 657318.30 | 1020204.76 |
| 262 | G262 | Green | 657604.59 | 1019596.53 |
| 263 | G263 | Green | 657842.79 | 1019063.40 |
| 264 | R264 | Red | 658219.69 | 1018019.73 |

Name of Stretch: Kayamkulam - Edappallikotta

| | | | | |
|-----|------|-------|-----------|------------|
| 265 | G265 | Green | 658343.43 | 1017353.17 |
| 266 | R266 | Red | 658682.15 | 1016701.60 |
| 267 | G267 | Green | 659014.44 | 1016017.40 |
| 268 | G268 | Green | 659761.62 | 1014484.74 |
| 269 | R269 | Red | 660228.86 | 1013592.91 |
| 270 | G270 | Green | 660540.05 | 1012823.04 |
| 271 | R271 | Red | 661018.69 | 1011934.07 |
| 272 | G272 | Green | 661098.22 | 1011359.48 |
| 273 | G273 | Green | 661463.72 | 1010126.66 |
| 274 | R274 | Red | 661777.58 | 1009581.98 |
| 275 | R275 | Red | 662492.50 | 1007693.78 |
| 276 | G276 | Green | 662751.53 | 1006998.96 |
| 277 | R277 | Red | 663045.23 | 1006356.65 |
| 278 | G278 | Green | 663313.57 | 1005616.80 |
| 279 | R279 | Red | 663627.20 | 1005072.22 |
| 280 | R280 | Red | 664069.92 | 1004218.29 |
| 281 | R281 | Red | 664375.25 | 1003386.08 |
| 282 | R282 | Red | 664590.15 | 1002819.48 |
| 283 | G283 | Green | 664573.25 | 1002250.11 |

| | | | | |
|-----|------|-------|-----------|------------|
| 284 | G284 | Green | 665086.51 | 1001592.80 |
| 285 | R285 | Red | 665704.70 | 1000564.29 |
| 286 | G286 | Green | 665698.05 | 999905.14 |
| 287 | G287 | Green | 665971.74 | 999254.31 |
| 288 | R288 | Red | 666614.25 | 999079.86 |
| 289 | R289 | Red | 666837.37 | 998455.71 |
| 290 | G290 | Green | 667080.35 | 997699.72 |
| 291 | R291 | Red | 667422.62 | 997175.08 |

Name of Stretch: Edappallikotta - Kollam

| | | | | |
|-----|------|-------|-----------|-----------|
| 292 | R292 | Red | 667648.27 | 996550.55 |
| 293 | R293 | Red | 667470.77 | 996141.72 |
| 294 | G294 | Green | 667246.79 | 995723.03 |
| 295 | G295 | Green | 669715.37 | 990362.53 |
| 296 | R296 | Red | 670288.57 | 990362.53 |
| 297 | R297 | Red | 670784.21 | 989850.65 |
| 298 | G298 | Green | 671159.47 | 989504.89 |
| 299 | G299 | Green | 671778.32 | 989172.26 |
| 300 | G300 | Green | 672011.77 | 988929.17 |
| 301 | R301 | Red | 672487.92 | 988235.76 |
| 302 | G302 | Green | 672566.93 | 987569.59 |
| 303 | R303 | Red | 672724.82 | 987026.21 |
| 304 | G304 | Green | 672103.62 | 986708.42 |
| 305 | R305 | Red | 672280.63 | 986159.87 |
| 306 | G306 | Green | 672384.56 | 985643.29 |
| 307 | R307 | Red | 672761.60 | 985429.01 |
| 308 | G308 | Green | 672854.93 | 984733.00 |
| 309 | R309 | Red | 673377.60 | 984718.64 |
| 310 | G310 | Green | 673792.49 | 984445.20 |
| 311 | R311 | Red | 674400.29 | 984673.05 |
| 312 | R312 | Red | 674304.88 | 983494.39 |