

ROAD CONSTRUCTION DEPARTMENT, NH DIVISION, BHAGALPUR

AVENUE PLANTATION SCHEME AS PER IRC:SP:21

MUNGER TO BHAGALPUR, FROM KM 70.150 TO
121.025 OF NH-80

Bhagalpur Div. From km 93.000 to 121.025 part of
project

DATE: 9/7/2022

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1. INTRODUCTION:

The Authority has awarded the project "Rehabilitation & Widening work for 2 – Lane with paved shoulder of existing National Highway 80 Alignment from KM 70.150 to Km 121.025 Munger – Sultanganj - Bhagalpur section in the state of Bihar" to the EPC Contractor.

This report explains Avenue Plantation Planning & its Estimate for Ghorghat-Bhagalpur from km 93.000 to 121.025 which is part of above project.

2. NECESSITY OF PLANTATION:

For this purpose the **total 3903 number of trees** are found within proposed toe line of the project highway. Out of that less than 60cm girth **1781** no. of trees are proposed for **Translocation** and more than 60cm girth **2122** no. of trees are proposed for **felling**. Refer abstract of tree counting from km 93.000 to km 121.025.

To counterbalance the loss of trees and other changes resulted into the surroundings; there is a need to follow the approach of "Corridor Development & Management", rather than "Highway Development". Apart from mitigating the environmental losses, it must plan to enhance the aesthetics of the highway corridor from all possible angles. Highways should not be looked upon merely as a means of transportation, but as a part and parcel of the environmental and socio-economic milieu.

3. SPECIFICATIONS FOR PLANTATION:

Specifications for plantation like height of plant, spacing between plants, selection of plants, pit size etc. will be followed according to Table in Cl. 11.14 of IRC: SP: 21 as below-

11.14 Specifications for Avenue Plantations

11.14.1 The technical specifications for planting along the Highways are as follows :

Ornamental Plants (Except Last Row)

Distance from embankment	1.0 m away from the toe of the embankment
Spacing between plant to plant	3 m
Spacing between rows	3 m
Size of the pits	60x60x60 cm (in alkaline soils, kankar panes to be broken by augur. In waterlogged areas, mound with height varying depending on water level)
No. of plants per km	333
Height of the saplings at the time of planting	1.5 m to 2 m
Survival percentage of plantation	90% at any time

Shade Plants (Last Row)

Distance from preceding rows	3.0 m
Spacing between plant to plant	8-12 m (6 m if high mortality expected)
Size of the pits	60x60x60 cm (in alkaline soils, kankar panes to be broken by augur. In waterlogged areas, mound with height varying depending on water level)
No. of plants per km	84 (167 at 6 m spacing)
Height of the saplings at the time of planting	More than 2 m
Survival percentage of plantation	90% after replacement of casualties in first two years. 80% afterwards

Distance of 1st row of Ornamental Plants is considered as 1m from Toe line and spacing between plant to plant is considered as 3m as mentioned in 1st table above.

Distance of 2nd row of Shade Plants is considered as 3m from 1st row (preceding row) and spacing between plant to plant is considered as 8m as mentioned in 2nd table above.

However, the RoW is limited and there do exist some trees within Toe line & RoW line; shade tree plantation is not considered.

According to Clause 1.4 of Schedule-C protection will be provided of Tree Guard with MS angle Iron and steel wire, though plastic wire mesh has been mentioned in REC Meeting No.-53 at IRO Ranchi dated 05.08.2022, for Munger - Bhagalpur (Package-1) NH-80

4. Summary of plantation calculation:

Total no. of Ornamental tree plantation LHS: 4733 Nos.

Total no. of Ornamental tree plantation RHS: 4733 Nos.

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Total no. of Ornamental tree plantation BHS: 9466 Nos.

Total no. of Shade tree plantation LHS: Nil

Total no. of Shade tree plantation RHS: Nil

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Total no. of Shade tree plantation BHS: Nil

Some trees of girth below 600mm can be "Transplanted" out of Total 1980 trees as mentioned in para no.2 above; from construction zone to vacant area, if available, lying between Toe line & RoW line as "Transplantation" is in scope of EPC Contractor. Remaining trees will be Transplanted to the land identified by Forest Department.

5. Annexure-I (Calculation Table of plantation is enclosed)

6. Analysis of Rate from Bihar SOR 2022 is as following-

Analysis of Rate

HORTICULTURE

Sr. No.	Ref. to MoRTH Spec.	Description	Unit	Quantity as per project category			Rate (₹)	Amount			Input ref.
				Large	Medium	Small		Large	Medium	Small	
							Say	22989.70	234126.60	238383.40	
11.03	307	Planting of Trees and their Maintenance for one Year									
		Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year.									
		Unit = Each									
		Taking output = 10 trees									
		a) Labour									
		Mate	day	0.680	0.680	0.680	325.00	221.00	221.00	221.00	L-12
		Mazdoor for planting	day	2.000	2.000	2.000	306.00	612.00	612.00	612.00	L-13
		Mazdoor for maintenance for one year	day	15.000	15.000	15.000	306.00	4590.00	4590.00	4590.00	L-13
		b) Machinery									
		Water tanker 6 KL capacity	hour	2.000	2.000	2.000	707.00	1414.00	1414.00	1414.00	PH11003
		c) Material									
		Sapling 2 m high 25 mm dia	each	10.000	10.000	10.000	25.55	255.50	255.50	255.50	M-161
		Farm yard manure	cum	0.940	0.940	0.940	278.90	262.17	262.17	262.17	M-168
		Pesticide	kg	0.500	0.500	0.500	80.97	40.49	40.49	40.49	M-135
		Cost of water	KL	12.000	12.000	12.000	56.20	674.40	674.40	674.40	M-191
		d) Overhead charges @ on (a+b+c)						645.55	806.96	963.35	
		e) Contractor's profit @ on (a+b+c+d)						871.51	887.65	903.79	
		Cost for 10 trees = a+b+c+d+e						9586.63	9784.16	9941.69	
		Rate per trees = (a+b+c+d+e)/10						958.66	978.42	994.17	
							Say	958.70	978.40	994.20	

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Abhishek
07/09/2022
A.E

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Executive Engineer
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Bhagalpur

Ghorghat to Dogacchi , FROM KM 93.000 to 121.025 OF NH-80
(Bhagalpur NH Div.)

Abstract of Amount

S. N.	SOR Item No.	Morth Ref Number	Description	Amount in (Rs)
1	11.09	307	Avenue Plantation of Ornamental plants	1,04,44,141
			Total	1,04,44,141

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Ghorghat to Dogacchi , FROM KM 93.000 to 121.025 OF NH-80 (Bhagalpur NH Div.)

Estimate of Road side Avenue plantation

S. N.	SOR Item No.	Morth Ref Number	Description	Unit	Quantity	Rate	Amount in (Rs)
			Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year				
1	11.09	307	Ornamental plants	No.	9466	976.40	92,42,602
			Total				92,42,602
			GST @12%				11,09,112.29
			Labour Cess 1%				92,426.02
			Grand Total Amount Rs				1,04,44,141

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W of NH-80 from Km 93+000 to km 121+025 & Planning of Avenue Plantation

Sl. No.	Chainage From	Chainage To	Length (M)	Right of Way (ROW)			Required Toe Width for Const. (Tentative)	Remaining width Both Side	One side width	Ornamental Trees in 1st row one side		
				Left side (M)	Right Side (M)	Total ROW (M)				No. of longitudinal row	No. of Transverse row at spacing 3 m	No. of Plants
1	93000	93413	413	5.03	5.03	10.06	12.50	0.00	0.00	0	138	0
2	93413	93438	25	5.03	5.03	10.06	12.50	0.00	0.00	0	8	0
3	93438	93440	2	5.03	5.03	10.06	12.50	0.00	0.00	0	1	0
4	93440	93466	26	5.03	5.03	10.06	12.50	0.00	0.00	0	9	0
5	93466	93483	17	5.03	5.03	10.06	12.50	0.00	0.00	0	6	0
6	93483	93507	24	5.03	5.03	10.06	12.50	0.00	0.00	0	8	0
7	93507	93522	15	7.01	7.01	14.02	12.50	1.52	0.76	0	5	0
8	93522	93556	34	7.01	7.01	14.02	12.50	1.52	0.76	0	11	0
9	93556	93580	24	7.01	7.01	14.02	12.50	1.52	0.76	0	8	0
10	93580	93600	20	10.06	10.06	20.12	12.50	7.62	3.81	1	7	7
11	93600	93650	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
12	93650	93700	50	10.06	10.06	20.12	12.50	7.62	3.81	1	17	17
13	93700	93750	50	10.06	10.06	20.12	12.50	7.62	3.81	1	17	17
14	93750	93800	50	16.77	16.77	33.54	12.50	21.04	10.52	1	17	17
15	93800	93850	50	16.77	16.77	33.54	12.50	21.04	10.52	1	17	17
16	93850	93900	50	16.77	16.77	33.54	12.50	21.04	10.52	1	17	17
17	93900	93950	50	15.85	15.85	31.71	12.50	19.21	9.60	1	17	17
18	93950	94000	50	15.85	15.85	31.71	12.50	19.21	9.60	1	17	17
19	94000	94050	50	15.85	15.85	31.71	12.50	19.21	9.60	1	17	17
20	94050	94100	50	15.85	15.85	31.71	12.50	19.21	9.60	1	17	17
21	94100	94150	50	15.24	15.24	30.49	12.50	17.99	8.99	1	17	17
22	94150	94200	50	13.11	13.11	26.22	12.50	13.72	6.86	1	17	17
23	94200	94250	50	12.20	12.20	24.39	12.50	11.89	5.95	1	17	17
24	94250	94300	50	12.20	12.20	24.39	12.50	11.89	5.95	1	17	17
25	94300	94350	50	12.20	12.20	24.39	20.68	3.71	1.86	1	17	17
26	94350	94400	50	12.20	12.20	24.39	20.68	3.71	1.86	1	17	17
27	94400	94450	50	10.98	10.98	21.95	20.68	1.27	0.64	0	17	0
28	94450	94500	50	7.85	7.85	15.69	20.68	0.00	0.00	0	17	0
29	94500	94550	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
30	94550	94600	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
31	94600	94650	50	7.01	7.01	14.02	20.68	0.00	0.00	0	17	0
32	94650	94700	50	4.88	4.88	9.76	20.68	0.00	0.00	0	17	0
33	94700	94750	50	4.57	4.57	9.15	20.68	0.00	0.00	0	17	0
34	94750	94800	50	3.05	3.05	6.10	20.68	0.00	0.00	0	17	0
35	94800	94850	50	3.96	3.96	7.93	20.68	0.00	0.00	0	17	0
36	94850	94900	50	5.79	5.79	11.59	20.68	0.00	0.00	0	17	0
37	94900	94950	50	7.01	7.01	14.02	20.68	0.00	0.00	0	17	0
38	94950	95000	50	11.89	11.89	23.78	15.34	8.44	4.22	1	17	17
39	95000	95050	50	11.89	11.89	23.78	15.34	8.44	4.22	1	17	17
40	95050	95100	50	11.89	11.89	23.78	15.34	8.44	4.22	1	17	17
41	95100	95150	50	7.93	7.93	15.85	15.34	0.51	0.26	0	17	0
42	95150	95200	50	11.89	11.89	23.78	15.34	8.44	4.22	1	17	17
43	95200	95250	50	7.93	7.93	15.85	15.34	0.51	0.26	0	17	0
44	95250	95300	50	10.98	10.98	21.95	15.34	6.61	3.31	1	17	17
45	95300	95350	50	11.89	11.89	23.78	15.34	8.44	4.22	1	17	17
46	95350	95400	50	11.89	11.89	23.78	15.34	8.44	4.22	1	17	17
47	95400	95450	50	10.98	10.98	21.95	15.34	6.61	3.31	1	17	17
48	95450	95500	50	9.76	9.76	19.51	12.50	7.01	3.51	1	17	17
49	95500	95550	50	10.98	10.98	21.95	12.50	9.45	4.73	1	17	17
50	95550	95600	50	10.98	10.98	21.95	12.50	9.45	4.73	1	17	17
51	95600	95650	50	10.98	10.98	21.95	12.50	9.45	4.73	1	17	17
52	95650	95700	50	5.79	5.79	11.59	12.50	0.00	0.00	0	17	0
53	95700	95750	50	9.76	9.76	19.51	12.50	7.01	3.51	1	17	17
54	95750	95800	50	9.76	9.76	19.51	12.50	7.01	3.51	1	17	17
55	95800	95850	50	9.76	9.76	19.51	12.50	7.01	3.51	1	17	17
56	95850	95900	50	9.76	9.76	19.51	12.50	7.01	3.51	1	17	17
57	95900	95950	50	13.72	13.72	27.44	12.50	14.94	7.47	1	17	17
58	95950	96000	50	15.85	15.85	31.71	12.50	19.21	9.60	1	17	17
59	96000	96050	50	19.82	19.82	39.63	12.50	27.13	13.57	1	17	17

No.	Chainage From	Chainage To	Length (M)	Right of Way (ROW)			Required Toe Width for Const. (Tentative)	Remaining width Both Side	One side width	Ornamental Trees in 1st row one side		
				Left side (M)	Right Side (M)	Total ROW (M)				No. of longitudinal row	No. of Transverse row at spacing 3 m	No. of Plants
60	96050	96090	40	17.68	17.68	35.37	12.50	22.87	11.43	1	13	13
61	96090	96100	10	15.98	15.98	31.96	12.50	19.46	9.73	1	3	3
62	96100	96150	50	15.85	15.85	31.71	12.50	19.21	9.60	1	17	17
63	96150	96200	50	17.78	17.78	35.57	12.50	23.07	11.53	1	17	17
64	96200	96250	50	12.85	12.85	25.71	12.50	13.21	6.60	1	17	17
65	96250	96300	50	12.85	12.85	25.71	12.50	13.21	6.60	1	17	17
66	96300	96350	50	14.81	148.48	163.29	12.50	150.79	75.39	1	17	17
67	96350	96400	50	15.85	15.85	31.71	12.50	19.21	9.60	1	17	17
68	96400	96450	50	14.81	148.48	163.29	12.50	150.79	75.39	1	17	17
69	96450	96500	50	14.81	148.48	163.29	12.50	150.79	75.39	1	17	17
70	96500	96550	50	14.81	148.48	163.29	12.50	150.79	75.39	1	17	17
71	96550	96600	50	17.68	17.68	35.37	12.50	22.87	11.43	1	17	17
72	96600	96650	50	18.77	188.11	206.88	12.50	194.38	97.19	1	17	17
73	96650	96700	50	18.77	188.11	206.88	12.50	194.38	97.19	1	17	17
74	96700	96750	50	14.81	148.48	163.29	12.50	150.79	75.39	1	17	17
75	96750	96800	50	12.85	128.66	141.51	12.50	129.01	64.51	1	17	17
76	96800	96850	50	12.85	128.66	141.51	12.50	129.01	64.51	1	17	17
77	96850	96900	50	12.85	128.66	141.51	12.50	129.01	64.51	1	17	17
78	96900	96950	50	11.89	11.89	23.78	12.50	11.28	5.64	1	17	17
79	96950	97000	50	11.89	11.89	23.78	12.50	11.28	5.64	1	17	17
80	97000	97050	50	11.89	11.89	23.78	12.50	11.28	5.64	1	17	17
81	97050	97100	50	12.85	128.66	141.51	12.50	129.01	64.51	1	17	17
82	97100	97150	50	15.85	15.85	31.71	12.50	19.21	9.60	1	17	17
83	97150	97200	50	17.78	178.05	195.83	12.50	183.33	91.67	1	17	17
84	97200	97250	50	11.89	11.89	23.78	12.50	11.28	5.64	1	17	17
85	97250	97300	50	11.89	11.89	23.78	12.50	11.28	5.64	1	17	17
86	97300	97350	50	12.85	128.66	141.51	12.50	129.01	64.51	1	17	17
87	97350	97400	50	17.78	17.78	35.57	12.50	23.07	11.53	1	17	17
88	97400	97450	50	14.81	14.81	29.62	12.50	17.12	8.56	1	17	17
89	97450	97500	50	11.89	11.89	23.78	15.34	8.44	4.22	1	17	17
90	97500	97550	50	476.83	476.83	953.66	15.34	938.32	469.16	1	17	17
91	97550	97600	50	29.67	29.67	59.35	15.34	44.01	22.00	1	17	17
92	97600	97650	50	29.67	29.67	59.35	15.34	44.01	22.00	1	17	17
93	97650	97700	50	29.67	29.67	59.35	15.34	44.01	22.00	1	17	17
94	97700	97750	50	25.71	25.71	51.42	15.34	36.08	18.04	1	17	17
95	97750	97800	50	23.78	23.78	47.56	15.34	32.22	16.11	1	17	17
96	97800	97850	50	25.71	25.71	51.42	15.34	36.08	18.04	1	17	17
97	97850	97900	50	24.72	24.72	49.44	15.34	34.10	17.05	1	17	17
98	97900	97950	50	25.71	25.71	51.42	15.34	36.08	18.04	1	17	17
99	97950	98000	50	24.72	24.72	49.44	15.34	34.10	17.05	1	17	17
100	98000	98050	50	24.72	24.72	49.44	15.34	34.10	17.05	1	17	17
101	98050	98100	50	25.71	25.71	51.42	12.50	38.92	19.46	1	17	17
102	98100	98150	50	26.68	26.68	53.35	12.50	40.85	20.43	1	17	17
103	98150	98200	50	27.74	27.74	55.49	12.50	42.99	21.49	1	17	17
104	98200	98250	50	26.68	26.68	53.35	12.50	40.85	20.43	1	17	17
105	98250	98300	50	23.78	23.78	47.56	12.50	35.06	17.53	1	17	17
106	98300	98350	50	23.78	23.78	47.56	12.50	35.06	17.53	1	17	17
107	98350	98400	50	25.71	25.71	51.42	12.50	38.92	19.46	1	17	17
108	98400	98420	20	10.85	10.85	21.70	12.50	9.20	4.60	1	7	7
109	98420	98473	53	10.85	10.85	21.70	12.50	9.20	4.60	1	18	18
110	98473	98523	50	13.72	13.72	27.44	12.50	14.94	7.47	1	17	17
111	98523	98573	50	13.72	13.72	27.44	12.50	14.94	7.47	1	17	17
112	98573	98623	50	15.85	15.85	31.71	12.50	19.21	9.60	1	17	17
113	98623	98673	50	13.72	13.72	27.44	12.50	14.94	7.47	1	17	17
114	98673	98723	50	11.89	11.89	23.78	12.50	11.28	5.64	1	17	17
115	98723	98773	50	13.72	13.72	27.44	12.50	14.94	7.47	1	17	17
116	98773	98823	50	13.72	13.72	27.44	12.50	14.94	7.47	1	17	17
117	98823	98873	50	15.85	15.85	31.71	20.68	11.03	5.51	1	17	17
118	98873	98923	50	11.89	11.89	23.78	20.68	3.10	1.55	1	17	17
119	98923	98973	50	11.89	11.89	23.78	20.68	3.10	1.55	1	20	20
120	98973	99032	59	11.89	11.89	23.78	20.68	3.10	1.55	1	17	17
121	99032	99082	50	9.76	9.76	19.51	20.68	0.00	0.00	0	17	0
122	99082	99132	50	9.76	9.76	19.51	20.68	0.00	0.00	0	17	0
123	99132	99182	50	9.76	9.76	19.51	20.68	0.00	0.00	0	17	0
124	99182	99232	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
125	99232	99299	67	7.93	7.93	15.85	20.68	0.00	0.00	0	22	0

No.	Chainage From	Chainage To	Length (M)	Right of Way (ROW)			Required Toe Width for Const. (Tentative)	Remaining width Both Side	One side width	Ornamental Trees in 1st row one side		
				Left side (M)	Right Side (M)	Total ROW (M)				No. of longitudinal row	No. of Transverse row at spacing 3 m	No. of Plants
126	99299	99322	23	9.76	9.76	19.51	20.68	0.00	0.00	0	8	0
127	99322	99372	50	8.84	8.84	17.68	20.68	0.00	0.00	0	17	0
128	99372	99422	50	5.79	5.79	11.59	20.68	0.00	0.00	0	17	0
129	99422	99472	50	5.79	5.79	11.59	20.68	0.00	0.00	0	18	0
130	99472	99525	53	5.79	5.79	11.59	20.68	0.00	0.00	0	17	0
131	99525	99575	50	7.93	7.93	15.85	20.68	1.27	0.64	0	17	0
132	99575	99625	50	10.98	10.98	21.95	20.68	0.00	0.00	0	17	0
133	99625	99675	50	9.76	9.76	19.51	20.68	0.00	0.00	0	17	0
134	99675	99725	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
135	99725	99775	50	9.76	9.76	19.51	20.68	0.00	0.00	0	17	0
136	99775	99825	50	9.88	9.88	19.76	20.68	0.00	0.00	0	17	17
137	99825	99875	50	8.89	8.89	17.78	12.50	5.28	2.64	1	17	17
138	99875	99925	50	8.89	8.89	17.78	12.50	5.28	2.64	1	17	17
139	99925	99975	50	8.89	8.89	17.78	12.50	5.28	2.64	1	17	17
140	99975	100025	50	8.89	8.89	17.78	12.50	5.28	2.64	1	17	17
141	100025	100075	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
142	100075	100125	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
143	100125	100175	50	9.88	9.88	19.76	12.50	7.26	3.63	1	17	17
144	100175	100225	50	9.88	9.88	19.76	12.50	7.26	3.63	1	17	17
145	100225	100275	50	9.88	9.88	19.76	12.50	7.26	3.63	1	17	17
146	100275	100325	50	9.88	9.88	19.76	12.50	7.26	3.63	1	17	17
147	100325	100375	50	10.85	10.85	21.70	12.50	9.20	4.60	1	17	17
148	100375	100425	50	10.85	10.85	21.70	12.50	9.20	4.60	1	17	17
149	100425	100475	50	10.85	10.85	21.70	12.50	9.20	4.60	1	17	17
150	100475	100525	50	12.85	12.85	25.71	12.50	13.21	6.60	1	7	7
151	100525	100545	20	11.89	11.89	23.78	12.50	11.28	5.64	1	15	15
152	100545	100590	45	11.89	11.89	23.78	12.50	11.28	5.64	1	17	17
153	100590	100640	50	9.88	9.88	19.76	12.50	7.26	3.63	1	17	17
154	100640	100690	50	11.89	11.89	23.78	12.50	11.28	5.64	1	17	17
155	100690	100740	50	17.78	17.78	35.57	12.50	23.07	11.53	1	17	17
156	100740	100790	50	16.82	16.82	33.63	12.50	21.13	10.57	1	17	17
157	100790	100840	50	9.88	9.88	19.76	12.50	7.26	3.63	1	17	17
158	100840	100890	50	12.85	12.85	25.71	12.50	13.21	6.60	1	17	17
159	100890	100940	50	10.85	10.85	21.70	12.50	9.20	4.60	1	17	17
160	100940	100990	50	9.88	9.88	19.76	12.50	7.26	3.63	1	17	17
161	100990	101040	50	10.85	10.85	21.70	12.50	9.20	4.60	1	17	17
162	101040	101090	50	8.89	8.89	17.78	12.50	5.28	2.64	1	17	17
163	101090	101140	50	8.89	8.89	17.78	20.68	0.00	0.00	0	17	0
164	101140	101190	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
165	101190	101240	50	8.89	8.89	17.78	20.68	0.00	0.00	0	17	0
166	101240	101290	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
167	101290	101340	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
168	101340	101390	50	8.89	8.89	17.78	20.68	0.00	0.00	0	17	0
169	101390	101440	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
170	101440	101490	50	6.91	6.91	13.82	20.68	0.00	0.00	0	17	0
171	101490	101540	50	6.91	6.91	13.82	20.68	0.00	0.00	0	17	0
172	101540	101590	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
173	101590	101640	50	5.92	5.92	11.84	12.50	0.00	0.00	0	17	17
174	101640	101690	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
175	101690	101740	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	0
176	101740	101790	50	5.92	5.92	11.84	12.50	0.00	0.00	0	17	0
177	101790	101840	50	5.92	5.92	11.84	12.50	0.00	0.00	0	17	17
178	101840	101890	50	9.93	9.93	19.87	12.50	7.37	3.68	1	17	17
179	101890	101940	50	11.89	11.89	23.78	12.50	11.28	5.64	1	17	17
180	101940	101990	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
181	101990	102040	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
182	102040	102090	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	0
183	102090	102140	50	5.92	5.92	11.84	12.50	0.00	0.00	0	17	0
184	102140	102190	50	6.88	6.88	13.77	12.50	1.27	0.63	0	17	0
185	102190	102240	50	6.88	6.88	13.77	12.50	1.27	0.63	0	17	17
186	102240	102290	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
187	102290	102340	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
188	102340	102390	50	9.88	9.88	19.76	12.50	7.26	3.63	1	17	17
189	102390	102440	50	8.89	8.89	17.78	12.50	5.28	2.64	1	17	17
190	102440	102490	50	8.89	8.89	17.78	12.50	5.28	2.64	1	17	17
191	102490	102540	50	6.88	6.88	13.77	12.50	1.27	0.63	0	17	0

No.	Chainage From	Chainage To	Length (M)	Right of Way (ROW)			Required Toe Width for Const. (Tentative)	Remaining width Both Side	One side width	Ornamental Trees in 1st row one side		
				Left side (M)	Right Side (M)	Total ROW (M)				No. of longitudinal row	No. of Transverse row at spacing 3 m	No. of Plants
192	102540	102590	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
193	102590	102620	30	5.97	5.97	11.94	12.50	0.00	0.00	0	10	0
194	102620	102660	40	5.97	5.97	11.94	12.50	0.00	0.00	0	13	0
195	102660	102710	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
196	102710	102760	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
197	102760	102810	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
198	102810	102860	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
199	102860	102910	50	3.48	3.48	6.96	12.50	0.00	0.00	0	17	0
200	102910	102960	50	3.48	3.48	6.96	12.50	0.00	0.00	0	17	0
201	102960	102985	25	3.48	3.48	6.96	12.50	0.00	0.00	0	8	0
202	102985	103000	15	4.27	4.27	8.54	12.50	0.00	0.00	0	5	0
203	103000	103050	50	3.48	3.48	6.96	12.50	0.00	0.00	0	17	0
204	103050	103100	50	3.73	3.73	7.47	12.50	0.00	0.00	0	17	0
205	103100	103150	50	4.27	4.27	8.54	12.50	0.00	0.00	0	17	0
206	103150	103200	50	4.47	4.47	8.94	7.00	1.94	0.97	0	17	0
207	103200	103250	50	4.27	4.27	8.54	7.00	1.54	0.77	0	17	0
208	103250	103300	50	3.99	3.99	7.98	7.00	0.98	0.49	0	17	0
209	103300	103350	50	3.99	3.99	7.98	7.00	0.98	0.49	0	17	0
210	103350	103400	50	3.48	3.48	6.96	7.00	0.00	0.00	0	17	0
211	103400	103450	50	3.48	3.48	6.96	7.00	0.00	0.00	0	17	0
212	103450	103500	50	3.48	3.48	6.96	7.00	0.00	0.00	0	17	0
213	103500	103550	50	3.48	3.48	6.96	7.00	0.00	0.00	0	17	0
214	103550	103600	50	3.48	3.48	6.96	7.00	0.00	0.00	0	17	0
215	103600	103650	50	3.48	3.48	6.96	7.00	0.00	0.00	0	17	0
216	103650	103690	40	3.99	3.99	7.98	7.00	0.98	0.49	0	13	0
217	103690	104110	420	3.99	3.99	7.98	7.00	0.98	0.49	0	140	0
218	104110	104160	50	7.62	7.62	15.24	7.00	8.24	4.12	1	17	17
219	104160	104210	50	8.54	8.54	17.07	7.00	10.07	5.04	1	17	17
220	104210	104260	50	9.45	9.45	18.90	7.00	11.90	5.95	1	17	17
221	104260	104297	37	10.06	10.06	20.12	7.00	13.12	6.56	1	12	12
222	104297	104300	3	10.06	10.06	20.12	7.00	13.12	6.56	1	1	1
223	104300	104350	50	7.93	7.93	15.85	7.00	8.85	4.43	1	17	17
224	104350	104400	50	9.15	9.15	18.29	7.00	11.29	5.65	1	17	17
225	104400	104450	50	7.62	7.62	15.24	7.00	8.24	4.12	1	17	17
226	104450	104500	50	8.54	8.54	17.07	7.00	10.07	5.04	1	17	17
227	104500	104550	50	7.93	7.93	15.85	7.00	8.85	4.43	1	17	17
228	104550	104600	50	7.62	7.62	15.24	7.00	8.24	4.12	1	17	17
229	104600	104650	50	7.62	7.62	15.24	7.00	8.24	4.12	1	17	17
230	104650	104700	50	6.40	6.40	12.80	7.00	5.80	2.90	1	17	17
231	104700	104750	50	7.93	7.93	15.85	7.00	8.85	4.43	1	17	17
232	104750	104800	50	8.54	8.54	17.07	7.00	10.07	5.04	1	17	17
233	104800	104850	50	10.37	10.37	20.73	7.00	13.73	6.87	1	17	17
234	104850	104900	50	7.01	7.01	14.02	7.00	7.02	3.51	1	17	17
235	104900	104950	50	6.10	6.10	12.20	7.00	5.20	2.60	1	17	17
236	104950	105000	50	7.62	7.62	15.24	7.00	8.24	4.12	1	17	17
237	105000	105050	50	7.62	7.62	15.24	7.00	8.24	4.12	1	17	17
238	105050	105100	50	10.37	10.37	20.73	7.00	13.73	6.87	1	17	17
239	105100	105150	50	7.01	7.01	14.02	7.00	7.02	3.51	1	17	17
240	105150	105200	50	6.10	6.10	12.20	7.00	5.20	2.60	1	17	17
241	105200	105250	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
242	105250	105300	50	5.18	5.18	10.37	7.00	3.37	1.68	1	17	17
243	105300	105350	50	5.49	5.49	10.98	7.00	3.98	1.99	1	17	17
244	105350	105400	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
245	105400	105450	50	3.35	3.35	6.71	7.00	0.00	0.00	0	17	0
246	105450	105500	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
247	105500	105550	50	3.05	3.05	6.10	7.00	0.00	0.00	0	17	0
248	105550	105600	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
249	105600	105650	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
250	105650	105700	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
251	105700	105735	35	7.62	7.62	15.24	7.00	8.24	4.12	1	12	12
252	105735	105785	50	5.79	5.79	11.59	7.00	4.59	2.29	1	17	17
253	105785	105835	50	7.93	7.93	15.85	7.00	8.85	4.43	1	17	17
254	105835	105885	50	7.93	7.93	15.85	7.00	8.85	4.43	1	17	17
255	105885	105935	50	7.01	7.01	14.02	7.00	7.02	3.51	1	17	17
256	105935	105985	50	7.93	7.93	15.85	7.00	8.85	4.43	1	17	17
257	105985	106035	50	5.79	5.79	11.59	7.00	4.59	2.29	1	17	17

No.	Chainage From	Chainage To	Length (M)	Right of Way (ROW)			Required Toe Width for Const. (Tentative)	Remaining width Both Side	One side width	Ornamental Trees in 1st row one side		
				Left side (M)	Right Side (M)	Total ROW (M)				No. of longitudinal row	No. of Transverse row at spacing 3 m	No. of Plants
258	106035	106085	50	4.88	4.88	9.76	7.00	2.76	1.38	1	17	17
259	106085	106135	50	4.88	4.88	9.76	7.00	2.76	1.38	1	17	17
260	106135	106185	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
261	106185	106235	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
262	106235	106285	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
263	106285	106335	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
264	106335	106385	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
265	106385	106435	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
266	106435	106485	50	3.96	3.96	7.93	7.00	0.93	0.46	0	7	0
267	106485	106505	20	3.96	3.96	7.93	7.00	0.93	0.46	0	15	0
268	106505	106550	45	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
269	106550	106600	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
270	106600	106650	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
271	106650	106700	50	3.96	3.96	7.93	7.00	0.93	0.46	0	17	0
272	106700	106750	50	5.79	5.79	11.59	7.00	4.59	2.29	1	17	17
273	106750	106800	50	5.79	5.79	11.59	7.00	4.59	2.29	1	17	17
274	106800	106850	50	5.79	5.79	11.59	7.00	4.59	2.29	1	17	17
275	106850	106900	50	7.93	7.93	15.85	7.00	8.85	4.43	1	17	17
276	106900	106950	50	7.93	7.93	15.85	7.00	8.85	4.43	1	17	17
277	106950	107000	50	5.79	5.79	11.59	7.00	4.59	2.29	1	17	17
278	107000	107050	50	5.79	5.79	11.59	10.00	1.59	0.79	0	17	0
279	107050	107100	50	4.88	4.88	9.76	10.00	0.00	0.00	0	17	0
280	107100	107150	50	5.79	5.79	11.59	10.00	1.59	0.79	0	17	0
281	107150	107200	50	7.93	7.93	15.85	10.00	5.85	2.93	1	17	17
282	107200	107250	50	5.79	5.79	11.59	10.00	1.59	0.79	0	17	0
283	107250	107300	50	5.79	5.79	11.59	10.00	1.59	0.79	0	17	0
284	107300	107350	50	7.93	7.93	15.85	10.00	5.85	2.93	1	17	17
285	107350	107400	50	7.01	7.01	14.02	10.00	4.02	2.01	1	17	17
286	107400	107450	50	7.01	7.01	14.02	10.00	4.02	2.01	1	17	17
287	107450	107478	28	7.01	7.01	14.02	20.68	0.00	0.00	0	9	0
288	107478	107478	0	6.10	6.10	12.20	20.68	0.00	0.00	0	0	0
289	107478	107500	22	6.10	6.10	12.20	20.68	0.00	0.00	0	7	0
290	107500	107550	50	9.15	9.15	18.29	20.68	0.00	0.00	0	17	0
291	107550	107600	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
292	107600	107650	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
293	107650	107700	50	7.01	7.01	14.02	20.68	0.00	0.00	0	17	0
294	107700	107750	50	7.01	7.01	14.02	20.68	0.00	0.00	0	17	0
295	107750	107800	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
296	107800	107850	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
297	107850	107900	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
298	107900	107950	50	7.62	7.62	15.24	20.68	0.00	0.00	0	17	0
299	107950	108000	50	7.62	7.62	15.24	20.68	0.00	0.00	0	17	0
300	108000	108050	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
301	108050	108100	50	8.54	8.54	17.07	20.68	0.00	0.00	0	17	0
302	108100	108150	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
303	108150	108200	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
304	108200	108250	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
305	108250	108300	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
306	108300	108350	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
307	108350	108400	50	7.01	7.01	14.02	20.68	0.00	0.00	0	17	0
308	108400	108450	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
309	108450	108500	50	4.88	4.88	9.76	20.68	0.00	0.00	0	17	0
310	108500	108550	50	5.49	5.49	10.98	20.68	0.00	0.00	0	17	0
311	108550	108600	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
312	108600	108650	50	6.40	6.40	12.80	20.68	0.00	0.00	0	17	0
313	108650	108700	50	7.62	7.62	15.24	20.68	0.00	0.00	0	17	0
314	108700	108750	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
315	108750	108800	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
316	108800	108850	50	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
317	108850	108900	50	4.88	4.88	9.76	20.68	0.00	0.00	0	17	0
318	108900	108950	50	6.10	6.10	12.20	20.68	0.00	0.00	0	23	0
319	108950	109020	70	6.10	6.10	12.20	20.68	0.00	0.00	0	17	0
320	109020	109070	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
321	109070	109120	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
322	109120	109170	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
323	109170	109220	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0

No.	Chainage From	Chainage To	Length (M)	Right of Way (ROW)			Required Toe Width for Const. (Tentative)	Remaining width Both Side	One side width	Ornamental Trees in 1st row one side		
				Left side (M)	Right Side (M)	Total ROW (M)				No. of longitudinal row	No. of Transverse row at spacing 3 m	No. of Plants
324	109220	109270	50	9.76	9.76	19.51	20.68	0.00	0.00	0	17	0
325	109270	109318	48	7.93	7.93	15.85	20.68	0.00	0.00	0	16	0
326	109318	109350	32	6.10	6.10	12.20	20.68	0.00	0.00	0	11	0
327	109350	109378	28	4.88	4.88	9.76	20.68	0.00	0.00	0	9	0
328	109378	109400	22	7.93	7.93	15.85	15.34	0.51	0.26	0	7	0
329	109400	109450	50	4.88	4.88	9.76	15.34	0.00	0.00	0	17	0
330	109450	109500	50	4.88	4.88	9.76	15.34	0.00	0.00	0	17	0
331	109500	109550	50	4.57	4.57	9.15	15.34	0.00	0.00	0	17	0
332	109550	109600	50	5.49	5.49	10.98	15.34	0.00	0.00	0	17	0
333	109600	109650	50	4.88	4.88	9.76	15.34	0.00	0.00	0	17	0
334	109650	109700	50	7.01	7.01	14.02	15.34	0.00	0.00	0	17	0
335	109700	109750	50	7.93	7.93	15.85	15.34	0.51	0.26	0	17	0
336	109750	109800	50	11.89	11.89	23.78	15.34	8.44	4.22	1	17	17
337	109800	109850	50	9.76	9.76	19.51	15.34	4.17	2.09	1	17	17
338	109850	109900	50	9.76	9.76	19.51	15.34	4.17	2.09	1	17	17
339	109900	109950	50	9.76	9.76	19.51	12.50	7.01	3.51	1	17	17
340	109950	110000	50	8.84	8.84	17.68	12.50	5.18	2.59	1	17	17
341	110000	110050	50	8.84	8.84	17.68	12.50	5.18	2.59	1	17	17
342	110050	110100	50	8.84	8.84	17.68	12.50	5.18	2.59	1	17	17
343	110100	110150	50	3.05	3.05	6.10	12.50	0.00	0.00	0	17	0
344	110150	110200	50	3.05	3.05	6.10	12.50	0.00	0.00	0	17	0
345	110200	110250	50	3.35	3.35	6.71	12.50	0.00	0.00	0	17	0
346	110250	110300	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
347	110300	110350	50	3.35	3.35	6.71	12.50	0.00	0.00	0	17	0
348	110350	110400	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
349	110400	110435	35	3.96	3.96	7.93	12.50	0.00	0.00	0	12	0
350	110435	110450	15	3.96	3.96	7.93	12.50	0.00	0.00	0	5	0
351	110450	110500	50	4.57	4.57	9.15	12.50	0.00	0.00	0	17	0
352	110500	110550	50	4.57	4.57	9.15	12.50	0.00	0.00	0	17	0
353	110550	110600	50	3.05	3.05	6.10	12.50	0.00	0.00	0	17	0
354	110600	110650	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
355	110650	110700	50	4.88	4.88	9.76	12.50	0.00	0.00	0	17	0
356	110700	110750	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
357	110750	110800	50	4.88	4.88	9.76	12.50	0.00	0.00	0	17	0
358	110800	110850	50	4.88	4.88	9.76	12.50	0.00	0.00	0	17	0
359	110850	110900	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
360	110900	110950	50	3.35	3.35	6.71	12.50	0.00	0.00	0	17	0
361	110950	111000	50	3.35	3.35	6.71	12.50	0.00	0.00	0	17	0
362	111000	111050	50	6.10	6.10	12.20	12.50	0.00	0.00	0	17	0
363	111050	111100	50	6.10	6.10	12.20	12.50	0.00	0.00	0	17	0
364	111100	111150	50	5.49	5.49	10.98	12.50	0.00	0.00	0	17	0
365	111150	111200	50	10.06	10.06	20.12	12.50	7.62	3.81	1	17	17
366	111200	111250	50	11.28	11.28	22.56	12.50	10.06	5.03	1	17	17
367	111250	111300	50	10.98	10.98	21.95	12.50	9.45	4.73	1	17	17
368	111300	111350	50	12.80	12.80	25.61	12.50	13.11	6.55	1	17	17
369	111350	111400	50	12.80	12.80	25.61	12.50	13.11	6.55	1	17	17
370	111400	111450	50	12.80	12.80	25.61	12.50	13.11	6.55	1	17	17
371	111450	111500	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
372	111500	111550	50	3.05	3.05	6.10	12.50	0.00	0.00	0	17	0
373	111550	111600	50	6.10	6.10	12.20	12.50	0.00	0.00	0	17	0
374	111600	111650	50	6.10	6.10	12.20	12.50	0.00	0.00	0	17	0
375	111650	111700	50	3.05	3.05	6.10	12.50	0.00	0.00	0	17	0
376	111700	111750	50	3.05	3.05	6.10	12.50	0.00	0.00	0	17	0
377	111750	111800	50	3.05	3.05	6.10	12.50	0.00	0.00	0	17	0
378	111800	111850	50	3.05	3.05	6.10	12.50	0.00	0.00	0	17	0
379	111850	111900	50	3.05	3.05	6.10	12.50	0.00	0.00	0	17	0
380	111900	111950	50	3.05	3.05	6.10	12.50	0.00	0.00	0	17	0
381	111950	112000	50	3.35	3.35	6.71	12.50	0.00	0.00	0	17	0
382	112000	112050	50	3.05	3.05	6.10	10.00	0.00	0.00	0	17	0
383	112050	112100	50	3.05	3.05	6.10	10.00	0.00	0.00	0	17	0
384	112100	112150	50	4.88	4.88	9.76	10.00	0.00	0.00	0	17	0
385	112150	112200	50	6.10	6.10	12.20	10.00	2.20	1.10	1	17	17
386	112200	112220	20	3.96	3.96	7.93	10.00	0.00	0.00	0	7	0
387	112220	112250	30	13.72	13.72	27.44	10.00	17.44	8.72	1	10	10
388	112250	112300	50	14.94	14.94	29.88	10.00	19.88	9.94	1	17	17
389	112300	112350	50	13.72	13.72	27.44	10.00	17.44	8.72	1	17	17

No.	Chainage From	Chainage To	Length (M)	Right of Way (ROW)			Required Toe Width for Const. (Tentative)	Remaining width Both Side	One side width	Ornamental Trees in 1st row one side		
				Left side (M)	Right Side (M)	Total ROW (M)				No. of longitudinal row	No. of Transverse row at spacing 3 m	No. of Plants
390	112350	112400	50	10.98	10.98	21.95	10.00	11.95	5.98	1	17	17
391	112400	112450	50	13.72	13.72	27.44	10.00	17.44	8.72	1	17	17
392	112450	112500	50	11.89	11.89	23.78	10.00	13.78	6.89	1	17	17
393	112500	112550	50	11.59	11.59	23.17	10.00	13.17	6.59	1	17	17
394	112550	112600	50	10.06	10.06	20.12	10.00	10.12	5.06	1	17	17
395	112600	112650	50	9.45	9.45	18.90	10.00	8.90	4.45	1	17	17
396	112650	112700	50	11.89	11.89	23.78	10.00	13.78	6.89	1	17	17
397	112700	112750	50	7.93	7.93	15.85	10.00	5.85	2.93	1	17	17
398	112750	112800	50	10.37	10.37	20.73	12.50	8.23	4.12	1	17	17
399	112800	112850	50	11.89	11.89	23.78	12.50	11.28	5.64	1	17	17
400	112850	112900	50	10.06	10.06	20.12	12.50	7.62	3.81	1	17	17
401	112900	112944	44	10.06	10.06	20.12	12.50	7.62	3.81	1	15	15
402	112944	113900	956	10.06	10.06	14.00	12.50	1.50	0.75	0	319	0
403	113900	114000	100	4.27	4.27	8.54	12.50	0.00	0.00	0	33	0
404	114000	114050	50	4.27	4.27	8.54	12.50	0.00	0.00	0	17	0
405	114050	114100	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
406	114100	114150	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
407	114150	114200	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
408	114200	114250	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
409	114250	114300	50	6.10	6.10	12.20	12.50	0.00	0.00	0	17	0
410	114300	114350	50	6.10	6.10	12.20	12.50	0.00	0.00	0	17	0
411	114350	114400	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
412	114400	114450	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
413	114450	114500	50	4.57	4.57	9.15	12.50	0.00	0.00	0	17	0
414	114500	114550	50	4.57	4.57	9.15	12.50	0.00	0.00	0	17	0
415	114550	114600	50	3.96	3.96	7.93	12.50	0.00	0.00	0	17	0
416	114600	114650	50	4.88	4.88	9.76	12.50	0.00	0.00	0	17	0
417	114650	114700	50	4.88	4.88	9.76	12.50	0.00	0.00	0	17	0
418	114700	114750	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
419	114750	114800	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
420	114800	114850	50	7.62	7.62	15.24	12.50	2.74	1.37	1	17	17
421	114850	114900	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
422	114900	114950	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
423	114950	115000	50	8.84	8.84	17.68	12.50	5.18	2.59	1	17	17
424	115000	115050	50	7.93	7.93	15.85	12.50	3.35	1.68	1	17	17
425	115050	115100	50	6.10	6.10	12.20	12.50	0.00	0.00	0	17	0
426	115100	115150	50	6.10	6.10	12.20	12.50	0.00	0.00	0	17	0
427	115150	115200	50	6.10	6.10	12.20	12.50	0.00	0.00	0	17	0
428	115200	115250	50	6.10	6.10	12.20	12.50	0.00	0.00	0	17	0
429	115250	115300	50	8.84	8.84	17.68	20.68	0.00	0.00	0	17	0
430	115300	115350	50	8.84	8.84	17.68	20.68	0.00	0.00	0	17	0
431	115350	115400	50	8.84	8.84	17.68	20.68	0.00	0.00	0	17	0
432	115400	115450	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
433	115450	115500	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
434	115500	115550	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
435	115550	115600	50	7.62	7.62	15.24	20.68	0.00	0.00	0	17	0
436	115600	115650	50	7.62	7.62	15.24	20.68	0.00	0.00	0	17	0
437	115650	115700	50	7.62	7.62	15.24	20.68	0.00	0.00	0	17	0
438	115700	115740	40	7.01	7.01	14.02	15.34	0.00	0.00	0	13	0
439	115740	116311	571	7.01	7.01	14.02	20.68	0.00	0.00	0	190	0
440	116311	116350	39	8.84	8.84	17.68	20.68	0.00	0.00	0	13	0
441	116350	116400	50	10.06	10.06	20.12	20.68	0.00	0.00	0	17	0
442	116400	116450	50	10.37	10.37	20.73	20.68	0.05	0.03	0	17	0
443	116450	116500	50	11.59	11.59	23.17	20.68	2.49	1.25	1	17	17
444	116500	116550	50	11.89	11.89	23.78	20.68	3.10	1.55	1	17	17
445	116550	116600	50	10.98	10.98	21.95	20.68	1.27	0.64	0	17	0
446	116600	116650	50	10.06	10.06	20.12	20.68	0.00	0.00	0	17	0
447	116650	116700	50	10.98	10.98	21.95	20.68	1.27	0.64	0	17	0
448	116700	116750	50	10.98	10.98	21.95	20.68	1.27	0.64	0	17	0
449	116750	116800	50	8.84	8.84	17.68	20.68	0.00	0.00	0	17	0
450	116800	116850	50	7.62	7.62	15.24	20.68	0.00	0.00	0	17	0
451	116850	116900	50	5.79	5.79	11.59	20.68	0.00	0.00	0	17	0
452	116900	116950	50	5.79	5.79	11.59	20.68	0.00	0.00	0	17	0
453	116950	117000	50	5.79	5.79	11.59	20.68	0.00	0.00	0	17	0
454	117000	117050	50	4.88	4.88	9.76	20.68	0.00	0.00	0	17	0
455	117050	117100	50	11.89	11.89	23.78	20.68	3.10	1.55	1	17	17

Sl. No.	Chainage From	Chainage To	Length (M)	Right of Way (ROW)			Required Toe Width for Const. (Tentative)	Remaining width Both Side	One side width	Ornamental Trees in 1st row one side		
				Left side (M)	Right Side (M)	Total ROW (M)				No. of longitudinal row	No. of Transverse row at spacing 3 m	No. of Plants
456	117100	117150	50	10.06	10.06	20.12	20.68	0.00	0.00	0	17	0
457	117150	117200	50	8.84	8.84	17.68	20.68	0.00	0.00	0	17	0
458	117200	117250	50	5.79	5.79	11.59	20.68	0.00	0.00	0	17	0
459	117250	117300	50	8.84	8.84	17.68	20.68	0.00	0.00	0	17	0
460	117300	117350	50	6.71	6.71	13.41	20.68	0.00	0.00	0	17	0
461	117350	117400	50	7.62	7.62	15.24	20.68	0.00	0.00	0	17	0
462	117400	117450	50	5.79	5.79	11.59	20.68	0.00	0.00	0	17	0
463	117450	117500	50	7.01	7.01	14.02	20.68	0.00	0.00	0	17	0
464	117500	117550	50	7.01	7.01	14.02	20.68	0.00	0.00	0	17	0
465	117550	117600	50	4.88	4.88	9.76	20.68	0.00	0.00	0	17	0
466	117600	117650	50	7.93	7.93	15.85	20.68	0.00	0.00	0	17	0
467	117650	117700	50	8.84	8.84	17.68	20.68	0.00	0.00	0	17	0
468	117700	117750	50	10.06	10.06	20.12	20.68	0.00	0.00	0	17	0
469	117750	117800	50	11.89	11.89	23.78	20.68	3.10	1.55	1	17	17
470	117800	117850	50	11.89	11.89	23.78	20.68	3.10	1.55	1	17	17
471	117850	117900	50	12.50	12.50	25.00	20.68	4.32	2.16	1	17	17
472	117900	117950	50	12.50	12.50	25.00	20.68	4.32	2.16	1	17	17
473	117950	118000	50	11.89	11.89	23.78	12.50	11.28	5.64	1	17	17
474	118000	118050	50	10.98	10.98	21.95	12.50	9.45	4.73	1	17	17
475	118050	118100	50	10.37	10.37	20.73	12.50	8.23	4.12	1	17	17
476	118100	118150	50	10.98	10.98	21.95	12.50	9.45	4.73	1	17	17
477	118150	118183	33	11.89	11.89	23.78	12.50	11.28	5.64	1	11	11
478	118183	118185	2	13.11	13.11	26.22	12.50	13.72	6.86	1	1	1
479	118185	118288	103	13.11	13.11	26.22	12.50	13.72	6.86	1	34	34
480	118288	118346	58	14.63	14.63	29.27	20.68	8.59	4.29	1	19	19
481	118346	118413	67	13.41	13.41	26.83	20.68	6.15	3.07	1	22	22
482	118413	118614	201	13.41	13.41	26.83	20.68	6.15	3.07	1	67	67
483	118614	118764	150	12.50	12.50	25.00	20.68	4.32	2.16	1	50	50
484	118764	118901	137	11.89	11.89	23.78	20.68	3.10	1.55	1	46	46
485	118901	118959	58	11.89	11.89	23.78	20.68	3.10	1.55	1	19	19
486	118959	119037	78	11.89	11.89	23.78	20.68	3.10	1.55	1	26	26
487	119037	119137	100	12.20	12.20	24.39	20.68	3.71	1.86	1	33	33
488	119137	119231	94	12.20	12.20	24.39	20.68	3.71	1.86	1	31	31
489	119231	119346	115	12.80	12.80	25.61	20.68	4.93	2.46	1	38	38
490	119346	119404	58	13.41	13.41	26.83	20.68	6.15	3.07	1	19	19
491	119404	119462	58	13.11	13.11	26.22	20.68	5.54	2.77	1	19	19
492	119462	119542	80	13.11	13.11	26.22	20.68	5.54	2.77	1	27	27
493	119542	119654	112	13.11	13.11	26.22	20.68	5.54	2.77	1	37	37
494	119654	119784	130	13.11	13.11	26.22	20.68	5.54	2.77	1	43	43
495	119784	119882	98	13.11	13.11	26.22	20.68	5.54	2.77	1	33	33
496	119882	119990	108	10.52	10.52	21.04	20.68	0.36	0.18	0	36	0
497	119990	120127	137	4.73	26.52	31.25	20.68	10.57	5.29	1	46	46
498	120127	120157	30	5.18	18.29	23.48	20.68	2.80	1.40	1	10	10
499	120157	120230	73	13.87	21.04	34.91	20.68	14.23	7.11	1	24	24
500	120230	120301	71	14.94	14.94	29.88	15.34	14.54	7.27	1	24	24
501	120301	120394	93	12.80	19.51	32.32	15.34	16.98	8.49	1	31	31
502	120394	120516	122	17.68	14.79	32.47	15.34	17.13	8.56	1	41	41
503	120516	121025	509	12.80	12.80	25.61	20.68	4.93	2.46	1	170	170

Total length= 28025 M

Total for Ornamental plants one side = 4733

Total for Ornamental plants one side = 9466

Both

Archi
07/09/2022

Archi
07/09/2022

Executive Engineer
N.H.Division, R.C.D
Bhagalpur