

Name of the Project :- development of vadodara mumbai expressway Phase II spur from km 0+000 to km 79+783 in
the state of maharashtra

Circle : Thane Forest Circle
Division: Alibag Forest Division
Range: Panvel
Village : shirvali vangani trfe taloja

Item No.	Particular	Unit	Quantity	Rate (per hundred)	Amount
1	Clearing the site & Removing the bushes				7000.00
2	Felling of trees				
	30 cm. below	Nos.	104	342	355.68
	31 cm. to 45 cm.	Nos.	85	530	450.50
	46 cm. to 60 cm.	Nos.	72	1353	974.16
	61 cm. to 75 cm.	Nos.	45	2028	912.6
	76 cm. to 90 cm.	Nos.	24	2699	647.76
	91 cm. to 105 cm.	Nos.	5	3091	154.55
	106 cm. to 120 cm.	Nos.	12	3833	459.96
	121 cm. to 150 cm.	Nos.	7	7204	504.28
	above 150 cm	Nos.	8	8188.5	655.08
	Total		362		5114.57
3	Preparation of Timber				
	A) Fashioning of Timber preparation per Cmt.	Cum.	0	316	0
	Total				0.00
4	A) Measurement of timber logs per Cmt.	Cum.	0	76	0.00
	C) Numbering of logs per hundred	Nos.	0	197	0.00
	Total				0.00
5	Preparation of Firewood	Cum.	22.165	131	2904
	A) Stacking 1 Cmt. of firewood near 50 Mts.	Cum.	22.165	85	1884
	B) Draging of firewood for trasportaion	Cum.	22.165	85	1884
	Total				6672
6	Draging of timber	Cum.	0	0	0
7	Salary of Mukadam (2 person for 15 days)	Nos.	0	per person per month	6000
8	Depot Expenditure				
	A) Making Stacks of Timber	Cum.	0	0	6000
	B) Numbering by Nails per hundred	Nos.	152	197	299.44
	C) Specieswise & Measurment wise Distribution of Fire Wood and stacking	Cum.	22.165	85	1884
9	A) Timber Measurement	Cum.	0	44	0
10	Transportation				
	A) Draging Path			Lumsum	5000.00
11	B) Transport by bullock cart distance		22.165	143	3170
	0 to 2.00 Km.	Cum.	0	Lumpsum	0.00
	C) Transport firewood by Truck to nearest depot	Cum.	22.165	85	1884
	Total				10053.62
	Total			Total	43023.32
	TOTAL			5% Contingencies	2151.17
	TOTAL			Total	45174.49
				Say	45174.00

Date:
Place: Panvel


(ACHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag


Range Forest Officer
Panvel

VADODARA MUMBAI EXPRESSWAY SPUR TREE COTIING
Range - Panvel village- SHIRVALI and vanganl tarfe taloje

sr no.	Name of Tree	Scientific Name	Hight (m)	Girth (cms)	No. of tree
1	vavala	Holoptelea integrifolia	4	34	1
2	sawar	Bombax ceiba	5	42	1
3	kuda	Holarrhena pubescens	3	25	1
4	sawar	Bombax ceiba	4	28	1
5	khair	Acacia catechu	3	20	1
6	khair	Acacia catechu	5	49	1
7	khair	Acacia catechu	3	43	1
8	lokhandi	Memecylon umbellatum Burm	3	27	1
9	lokhandi	Memecylon umbellatum	3	28	1
10	dhaman	Grewia tiliifolia	3	19	1
11	palas	Butea monosperma	6	64	1
12	sawar	Bombax ceiba	3	30	1
13	kuda	Holarrhena pubescens	4	25	1
14	palas	Butea monosperma	10	113	1
15	palas	Butea monosperma	4	34	1
16	dhaman	Grewia tiliifolia	3	20	1
17	dhaman	Grewia tiliifolia	3	19	1
18	asana	Pterocarpus marsupium	8	79	1
19	kuda	Holarrhena pubescens	3	21	1
20	palas	Butea monosperma	4	26	1
21	kuda	Holarrhena pubescens	3	24	1
22	vavala	Holoptelea integrifolia Planch	7	61	1
23	kuda	Holarrhena pubescens	3	30	1
24	kuda	Holarrhena pubescens	3	24	1
25	kuda	Holarrhena pubescens	4	24	1
26	dhaman	Grewia tiliifolia	4	39	1
27	dhaman	Grewia tiliifolia	6	50	1
28	kuda	Holarrhena pubescens	4	35	1
29	palas	Butea monosperma	4	35	1
30	dhaman	Grewia tiliifolia	3	18	1
31	sawar	Bombax ceiba	3	22	1
32	kuda	Holarrhena pubescens	3	20	1
33	dhaman	Grewia tiliifolia	4	30	1
34	asana	Pterocarpus marsupium	3	26	1
35	palas	Butea monosperma	3	18	1
36	sawar	Bombax ceiba	6	50	1
37	bondara	Lagerstroemia speciosa		33	1
38	palas	Butea monosperma	4	29	1
39	sawar	Bombax ceiba	32	30	1
40	dhaman	Grewia tiliifolia	4	35	1
41	vavala	Holoptelea integrifolia	4	49	1
42	dhaman	Grewia tiliifolia	5	17	1
43	dhaman	Grewia tiliifolia	3	27	1
44	bamboo	Bambusa	3		1

45	palas	Butea monosperma	4	42	1
46	palas	Butea monosperma	6	50	1
47	palas	Butea monosperma	3	28	1
48	palas	Butea monosperma	3	20	1
49	sawar	Bombax ceiba	4	57	1
50	sawar	Bombax ceiba	4	50	1
51	palas	Butea monosperma	3	21	1
52	palas	Butea monosperma	3	26	1
53	palas	Butea monosperma	3	20	1
54	palas	Butea monosperma	5	54	1
55	palas	Butea monosperma	4	40	1
56	palas	Butea monosperma	4	39	1
57	palas	Butea monosperma	3	21	1
58	palas	Butea monosperma	4	51	1
59	palas	Butea monosperma	3	31	1
60	chikhali	Acacia catechu	4	24	1
61	palas	Butea monosperma	3	23	1
62	palas	Butea monosperma	3	28	1
63	palas	Butea monosperma	3	30	1
64	palas	Butea monosperma	3	28	1
65	palas	Butea monosperma	4	34	1
66	palas	Butea monosperma	3	26	1
67	dhaman	Grewia tiliifolia	3	26	1
68	sawar	Bombax ceiba	6	57	1
69	palas	Butea monosperma	5	46	1
70	bhokar	Cordia dichotoma Forst	3	36	1
71	moha	Madhuca longifolia	4	50	1
72	palas	Butea monosperma	5	54	1
73	mon karmal	Madhuca longifolia	7	62	1
74	palas	Butea monosperma	3	30	1
75	sawar	Bombax ceiba	3	24	1
76	apata	Bauhinia racemosa	3	28	1
77	dhaman	Grewia tiliifolia	3	29	1
78	sawar	Bombax ceiba	7	58	1
79	dhaman	Grewia tiliifolia	3	26	1
80	dhaman	Grewia tiliifolia	3	28	1
81	kevan	Pistacia atlantica	3	20	1
82	palas	Butea monosperma	9	87	1
83	asana	Pterocarpus marsupium	7	64	1
84	sawar	Bombax ceiba	5	46	1
85	palas	Butea monosperma	4	38	1
86	palas	Butea monosperma	10	87	1
87	asana	Pterocarpus marsupium	4	28	1
88	palas	Butea monosperma	6	58	1
89	palas	Butea monosperma	3	20	1
90	palas	Butea monosperma	4	37	1
91	palas	Butea monosperma	4	41	1
92	palas	Butea monosperma	3	23	1
93	palas	Butea monosperma	6	52	1

94	palas	Butea monosperma	3	26	1
95	palas	Butea monosperma	3	28	1
96	palas	Butea monosperma	3	29	1
97	palas	Butea monosperma	4	37	1
98	palas	Butea monosperma	4	30	1
99	palas	Butea monosperma	4	27	1
100	palas	Butea monosperma	7	87	1
101	palas	Butea monosperma	3	32	1
102	dhaman	Grewia tiliifolia	3	26	1
103	palas	Butea monosperma	4	37	1
104	palas	Butea monosperma	8	61	1
105	palas	Butea monosperma	4	27	1
106	palas	Butea monosperma	6	54	1
107	umbar	Ficus racemosa	3	23	1
108	umbar	Ficus racemosa	4	24	1
109	palas	Butea monosperma	7	62	1
110	sawar	Bombax ceiba	6	49	1
111	palas	Butea monosperma	4	33	1
112	palas	Butea monosperma	3	21	1
113	palas	Butea monosperma	3	24	1
114	palas	Butea monosperma	8	74	1
115	palas	Butea monosperma	3	20	1
116	palas	Butea monosperma	4	30	1
117	palas	Butea monosperma	3	32	1
118	palas	Butea monosperma	6	58	1
119	karanj	Pongamia pinnata	4	30	1
120	karanj	Pongamia pinnata	3	24	1
121	sawar	Bombax ceiba	6	58	1
122	karanj	Pongamia pinnata	4	35	1
123	palas	Butea monosperma	3	29	1
124	palas	Butea monosperma	4	32	1
125	palas	Butea monosperma	3	28	1
126	palas	Butea monosperma	5	46	1
127	palas	Butea monosperma	5	44	1
128	palas	Butea monosperma	3	29	1
129	palas	Butea monosperma	3	23	1
130	palas	Butea monosperma	3	34	1
131	palas	Butea monosperma	3	26	1
132	palas	Butea monosperma	4	40	1
133	palas	Butea monosperma	3	36	1
134	palas	Butea monosperma	5	4	1
135	sawar	Bombax ceiba	4	50	1
136	palas	Butea monosperma	3	23	1
137	palas	Butea monosperma	3	33	1
138	palas	Butea monosperma	3	29	1
139	palas	Butea monosperma	8	70	1
140	palas	Butea monosperma	4	40	1
141	palas	Butea monosperma	3	25	1
142	palas	Butea monosperma	7	60	1

143	palas	Butea monosperma	5	43	1
144	palas	Butea monosperma	4	40	1
145	palas	Butea monosperma	3	51	1
146	palas	Butea monosperma	3	27	1
147	palas	Butea monosperma	3	33	1
148	palas	Butea monosperma	5	40	1
149	karanj	Pongamia pinnata	6	40	1
150	karanj	Pongamia pinnata	6	45	1
151	umbar	Ficus racemosa	7	70	1
152	umbar	Ficus racemosa	7	57	1
153	Sesbania	Grewia villosa wild	7	62	1
154	kinai	Albizia peocera	5	51	1
155	bhokaran	Cordia dichotoma Forstan	6	72	1
156	shivan	Gmelina arborea	7	72	1
157	umbar	Ficus racemosa	5	35	1
158	karanj	Pongamia pinnata	5	40	1
159	umbar	Ficus racemosa	6	55	1
160	kumbhay	careya arborea	2	25	1
161	karanj	Pongamia pinnata	4	40	1
162	karanj	Pongamia pinnata	2	48	1
163	karanj	Pongamia pinnata	2	52	1
164	karanj	Pongamia pinnata	2	46	1
165	karanj	Pongamia pinnata	3	45	1
166	karanj	Pongamia pinnata	5	80	1
167	karanj	Pongamia pinnata	2	26	1
168	vavala	Holoptelea integrifolia	2	24	1
169	vavala	Holoptelea integrifolia	2	95	1
170	karanj	Pongamia pinnata	3	83	1
171	karanj	Pongamia pinnata	3	65	1
172	sawar	Bombax ceiba	3	50	1
173	palas	Butea monosperma	3	52	1
174	asana	Pterocarpus marsupium	4	43	1
175	palas	Butea monosperma	3	68	1
176	palas	Butea monosperma	4	55	1
177	palas	Butea monosperma	2	45	1
178	palas	Butea monosperma	2	43	1
179	palas	Butea monosperma	3	42	1
180	palas	Butea monosperma	2	44	1
181	palas	Butea monosperma	2	60	1
182	kakad	Garuga pinnata	4	60	1
183	palas	Butea monosperma	5	32	1
184	sawar	Bombax ceiba	2	45	1
185	Sesbania	Grewia villosa wild	3	40	1
186	dhaman	Grewia tiliifolia	3	46	1
187	dhaman	Grewia tiliifolia	3	46	1
188	Sesbania	Grewia villosa wild	4	68	1
189	palas	Butea monosperma	2	28	1
190	vavala	Holoptelea integrifolia	3	64	1
191	palas	Butea monosperma	5	80	1
192	ela	true cardamom	6	85	1
193	ela	true cardamom	3	120	1

194	ela	true cardamom	2	55	1
195	karanj	Pongamia pinnata	3	50	1
196	kumbhay	careya arborea	4	108	1
197	sawar	Bombax ceiba	8	108	1
198	ela	true cardamom	1	48	1
199	asana	Pterocarpus marsupium	3	58	1
200	asana	Pterocarpus marsupium	6	63	1
201	asana	Pterocarpus marsupium	5	38	1
202	vel	convolvulus arvensis	3	28	1
203	palas	Butea monosperma	6	68	1
204	palas	Butea monosperma	3	35	1
205	palas	Butea monosperma	5	56	1
206	Sesbania	Grewia villosa wild	7	76	1
207	kharmajar	neolamarckia cadamba	2	40	1
208	aapta	bauhinia racemosa	2	20	1
209	aapta	bauhinia racemosa	3	34	1
210	sawar	Bombax ceiba	4	48	1
211	Sesbania	Grewia villosa wild	2	40	1
212	dhaman	Grewia tiliifolia	1	43	1
213	dhaman	Grewia tiliifolia	2	38	1
214	palas	Butea monosperma	4	47	1
215	palas	Butea monosperma	1	57	1
216	bambu bet	bambusa		80	1
217	dhaman	Grewia tiliifolia	2	35	1
218	vel	convolvulus arvensis	3	38	1
219	bambu bet	bambusa		15	1
220	palas	Butea monosperma	3	38	1
221	palas	Butea monosperma	2	37	1
222	jambhul	syzygium cumini	2	63	1
223	aamba	mangifera indica	3	84	1
224	aamba	mangifera indica	2	46	1
225	badam	terminalia catappa	4	52	1
226	badam	terminalia catappa	4	72	1
227	aamba	mangifera indica	2	58	1
228	aamba	mangifera indica	1	46	1
229	aamba	mangifera indica	1	48	1
230	umbar	Ficus racemosa	3	130	1
231	koshimb	dovyalis abyssinica	1	24	1
232	ashok	saraca asoca	5	53	1
233	tad	borassus flabellifer	10	160	1
234	tad	borassus flabellifer	7	150	1
235	sawar	Bombax ceiba	4	45	1
236	jambhul	syzygium cumini	7	160	1
237	palas	Butea monosperma	5	63	1
238	palas	Butea monosperma	1	36	1
239	dhaman	Grewia tiliifolia	2	60	1
240	palas	Butea monosperma	4	63	1
241	umbar	Ficus racemosa	6	180	1
242	palas	Butea monosperma	2	62	1
243	dhaman	Grewia tiliifolia	6	76	1
244	vavala	Holoptelea integrifolia	8	112	1

245	palas	Butea monosperma	3	150	1
246	vavala	Holoptelea integrifolia	1	26	1
247	sawar	Bombax ceiba	3	128	1
248	sawar	Bombax ceiba	5	88	1
249	palas	Butea monosperma	2	92	1
250	palas	Butea monosperma	2	42	1
251	palas	Butea monosperma	2	44	1
252	sawar	Bombax ceiba	3	40	1
253	palas	Butea monosperma	2	50	1
254	palas	Butea monosperma	1	33	1
255	palas	Butea monosperma	3	50	1
256	vavala	Holoptelea integrifolia	2	52	1
257	sawar	Bombax ceiba	3	68	1
258	aambada	mangifera indica da	4	76	1
259	palas	Butea monosperma	3	66	1
260	shemat	lannea coromanglica	1	24	1
261	shemat	lannea coromanglica	1	24	1
262	shemat	lannea coromanglica	1	22	1
263	vavala	Holoptelea integrifolia	5	112	1
264	sawar	Bombax ceiba	9	110	1
265	koshimb	dovyalis abyssinica	9	120	1
266	bambu bet	bambusa	10	162	1
267	Eilachi Chinch	Eilachi Chinch	6	60	1
268	sawar	bombex ceiba	2	71	1
269	ain	tarminalia elliptica	1.8	75	1
270	shemat	lannea coromanglica	1.65	60	1
271	koshimb	dovyalis abyssinica	1.87	72	1
272	asana	pterocarpus marsupium	1.85	86	1
273	sawar	bombex ceiba	1.9	74	1
274	koshimb	dovyalis abyssinica	1.8	77	1
275	koshimb	dovyalis abyssinica	1.6	73	1
276	shemat	lannea coromanglica	1.85	82	1
277	koshimb	dovyalis abyssinica	1.6	75	1
278	aasana	pterocarpus marsupium	1.9	72	1
279	kuda	holarrhena pubescens	1	16	1
280	moha	madhuka longifolia	7	135	1
281	palas	Butea monosperma	2	45	1
282	palas	Butea monosperma	2	32	1
283	palas	Butea monosperma	1	34	1
284	dhaman	Grewia tiliifolia	2	26	1
285	kumbh	Careya arborea	2	42	1
286	palas	Butea monosperma	2	55	1
287	palas	Butea monosperma	3	73	1
288	kakad	Garuga pinnata	1	20	1
289	chafa	Plumeria rubra	2	74	1
290	chafa	Plumeria rubra	2	63	1
291	palas	Butea monosperma	5	106	1
292	palas	Butea monosperma	1	22	1
293	palas	Butea monosperma	3	37	1
294	dhaman	Grewia tiliifolia	2	63	1
295	umbar	Ficus racemosa	3	210	1

296	vavala	entire-leaved elm	3	68	1
297	aapta	bauhinia racemosa	2	58	1
298	dhaman	Grewia tiliifolia	3	68	1
299	dhaman	Grewia tiliifolia	3	50	1
300	palas	Butea monosperma	1	36	1
301	sawar	bombex ceiba	3	92	1
302	kuda	holarrhena pubescens	2	38	1
303	aapta	bauhinia racemosa	2	42	1
304	Sesbania	Sesbania grandiflora	2	90	1
305	palas	Butea monosperma	2	50	1
306	palas	Butea monosperma	1	24	1
307	palas	Butea monosperma	2	58	1
308	palas	Butea monosperma	2	55	1
309	palas	Butea monosperma	2	33	1
310	palas	Butea monosperma	2	38	1
311	kakad	Garuga pinnata	1	42	1
312	kuda	holarrhena pubescens	1	22	1
313	sawar	bombex ceiba	2	40	1
314	palas	Butea monosperma	1	28	1
315	aasana	pterocarpus marsupium	3	60	1
316	jambhul	syzygium cumini	6	73	1
317	palas	Butea monosperma	1	36	1
318	aapta	bauhinia racemosa	1	30	1
319	palas	Butea monosperma	2	63	1
320	Sesbania	Sesbania grandiflora	3	200	1
321	kumbh	Careya arborea	1	20	1
322	kinai	Albizia procera	2	26	1
323	moh	Madhuca longifolia	2	100	1
324	palas	Butea monosperma	2	57	1
325	palas	Butea monosperma	3	77	1
326	dhaman	Grewia tiliifolia	2	60	1
327	dhaman	Grewia tiliifolia	2	56	1
328	aapta	bauhinia racemosa	3	75	1
329	moh	Madhuca longifolia	3	118	1
330	palas	Butea monosperma	1	24	1
331	palas	Butea monosperma	2	66	1
332	aapta	bauhinia racemosa	3	63	1
333	bambu bet	bambusa	10	200	1
334	jambhul	syzygium cumini	2	32	1
335	jambhul	syzygium cumini	2	55	1
336	chitu	plumbago zeylanica	2	30	1
337	chitu	plumbago zeylanica	2	28	1
338	chitu	plumbago zeylanica	1	25	1
339	shivan	Gmelina arborea	1	20	1
340	pangara	Erythrina variegata	2	43	1
341	chitu	plumbago zeylanica	1	20	1
342	chitu	plumbago zeylanica	1	18	1
343	palas	Butea monosperma	2	26	1
344	palas	Butea monosperma	2	22	1
345	savar	Bombax ceiba	2	36	1
346	chitu	plumbago zeylanica	2	38	1

347	palas	Butea monosperma	2	60	1
348	palas	Butea monosperma	3	46	1
349	palas	Butea monosperma	5	118	1
350	dhaman	Grewia tiliifolia	3	44	1
351	dhaman	Grewia tiliifolia	4	92	1
352	kakad	Garuga pinnata	4	73	1
353	dhaman	Grewia tiliifolia	3	53	1
354	umbar	Ficus racemosa	2	115	1
355	dhaman	Grewia tiliifolia	2	67	1
356	kakad	Garuga pinnata	2	34	1
357	palas	Butea monosperma	1	23	1
358	palas	Butea monosperma	2	60	1
359	aapta	baubinia racemosa	2	78	1
360	savar	Bombax ceiba	2	80	1
361	umbar	Ficus racemosa	4	79	1
362	shivan	Gmelina arborea	6	81	1
total					362

Range Forest Officer
Panvel

(Signature)
(ASHISH THAKARE IFS)
Deputy Conservator of Forests
Alibag

Name of the Project :- VADODARA MUMBAI EXPRESSWAY SPUR TREE COTING

Panvel Range												panvel
Counting of the Trees "B" Form Abstract												
Species	No. of trees per girth class											Total
	below 30cm	31-45	46-60	61-75	76-90	91-105	106-120	121-135	136-150	above 150		
Teak	0	0	0	0	0	0	0	0	0	0	0	0
Khair	1	1	1	0	0	0	0	0	0	0	0	3
Ain	0	0	0	1	0	0	0	0	0	0	0	1
Hed,Shivan	1	0	0	1	1	0	0	0	0	0	0	3
Bibla,kinai,Asana,Kalamb,Shi sav,Bondara,Dhaman	13	7	10	4	3	1	0	0	0	0	0	38
Other Spp.	89	77	61	39	20	4	12	3	4	8	8	317
Final Count	104	85	72	45	24	5	12	3	4	8	8	362

Total Yields According to Form Factor												
Species	No. of trees per girth class											Total
	below 30cm	31-45	46-60	61-75	76-90	91-105	106-120	121-135	136-150	above 150		
Teak	0	0	0	0	0	0	0	0	0	0	0	
Form Factor Per tree Cmt.	0.025	0.034	0.059	0.109	0.185	0.285	0.414	0.500	0.525	0.535		
Total Cmt.	0	0	0	0	0	0	0	0	0	0	0	0
Form Factor Per tree Cmt.	0.005	0.010	0.015	0.094	0.174	0.250	0.326	0.401	0.476	0.520		
Total Cmt.	0.005	0.01	0.015	0	0	0	0	0	0	0	0	0.03
Ain	0	0	0	1	0	0	0	0	0	0	0	
Form Factor Per tree Cmt.	0.005	0.025	0.073	0.154	0.235	0.316	0.397	0.470	0.515	0.545		
Total Cmt.	0	0	0	0.154	0	0	0	0	0	0	0	0.154
Hed,Shivan	1	0	0	1	1	0	0	0	0	0	0	
Form Factor Per tree Cmt.	0.005	0.025	0.044	0.097	0.146	0.196	0.245	0.295	0.344	0.365		
Total Cmt.	0.005	0	0	0.097	0.146	0	0	0	0	0	0	0.248
Bibla,kinai,Asana,Kalamb,Shi sav,Bondara,Dhaman	13	7	10	4	3	1	0	0	0	0	0	38
Form Factor Per tree Cmt.	0.01	0.025	0.048	0.082	0.127	0.182	0.247	0.322	0.35	0.377		
Total Cmt.	0.13	0.175	0.48	0.328	0.381	0.182	0	0	0	0	0	1.676
Other Spp.	89	77	61	39	20	4	12	3	4	8	8	317
Form Factor Per tree Cmt.	0.005	0.025	0.048	0.082	0.127	0.182	0.247	0.323	0.350	0.370		
Total Cmt.	0.445	1.925	2.928	3.198	2.54	0.728	2.964	0.969	1.4	2.96	2.96	20.057
Net Total Cmt.	0.585	2.11	3.423	3.777	3.067	0.91	2.964	0.969	1.4	2.96	2.96	22.165

Rangeforest Officer
Panvel

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