



Tree Enumeration Report

Project: Development of Dhalbhumgarh Airport, District: East Singhbhum



1. FACT SHEET

1	Detail of Proposal	Proposal No. : FP/JH/Others/41404/2019 Name of Project: Development of Dhalbhumgarh Airport
2	Location	State – Jharkhand District- East Singhbhum
3	Name of Forest Division	Jamshedpur (Dhalbhum) Forest Division
4	Total no. for trees	74794
5	Total no. of bamboo clumps	4538

2. Methodology used for forest resource assessment

All trees present on proposed land for development of Dhalbhumgarh airport has been enumerated.

SPECIES WISE SUMMARY OF TREE ENUMERTATION OF PROJECT AREA

S.N o	Spices	Botanical Name	Girth in Cm.						Total
			0-30	31-60	61-90	91-120	121-150	>150	
1	Sal	<i>Shorea robusta</i>	52167	8987	499	356	604	419	63032
2	Asan	<i>Terminalia tomentosa</i>	270	24	2	2	0	0	298
3	Accacia	<i>Acacia Arabica</i>	68	3	2	15	14	20	122
4	Amaltash	<i>Cassia fistula</i>	21	4	2	1	0	0	28
5	Arjun	<i>Terminalia arjuna</i>	599	309	7	0	1	0	916
6	Bahera	<i>Terminalia bellirica</i>	29	2	10	7	4	2	54
7	Baken	<i>Melia azedarach</i>	0	1	0	0	0	0	1
8	Bargad	<i>Ficus bengalensis</i>	0	3	1	0	0	3	7
9	Bel	<i>Aegle marmelos</i>	2	4	3	0	0	0	9
10	Bhelwa	<i>Semecarpus anacardium</i>	130	20	61	25	1	0	237
11	Bhurkund	<i>Hymenodictyon excelsum</i>	40	13	2	2	0	1	58
12	Chakundi	<i>Cassia siamea</i>	62	51	71	43	14	2	243
13	Chatni	<i>Alstonia scholaris</i>	59	74	16	2	0	0	151
14	Chilbil	<i>Holoptelea integrifolia</i>	21	11	3	7	6	2	50
15	Dhautha	<i>Anogeissus latifolia</i>	1						1
16	Doka	<i>Lannea grandis</i>	1259	353	29	16	8	3	1668
17	Dumar	<i>Ficus hispida</i>	13	11					24
18	Eucalyptus	<i>Eucalyptus globules</i>	329	27	24	54	77	79	590
19	Farhad	<i>Erythrina indica</i>		1					1
20	Gamhar	<i>Gmelina arborea</i>	34	6	0	0	0	0	40
21	Ghorkaranj	<i>Ailanthus excelsa</i>	41	18	7	3	2	0	71
22	Gulmohar/Gulachi	<i>Delonix regia</i>		2					2
23	Gurikaram	<i>Mitragyna parvifolia</i>	107	19	1	3	0	1	131
24	Hare	<i>Terminalia chebula</i>	3	0	3	2	0	0	8
25	Imli	<i>Tamarindus indica</i>					1		1
26	Jamun	<i>Syzygium cumini</i>	180	19	11	41	28	45	324
27	Kadam	<i>Anthocephalus cadamba</i>	16	4					20
28	Kaj	<i>Bridelia retusa</i>	17	1	1	1	0	0	20
29	Kaju	<i>Anacardium occidentale</i>	81	120	37	0	0	0	238
30	Karam	<i>Adina cordifolia</i>	382	160	56	18	5	4	625
31	Karanj	<i>Pongamia glabra</i>	10	3	0	0	0	0	13
32	Kari	<i>Miluta velutina</i>	74	9	2	1	0	1	87
33	Kantel /katel	<i>Hydnocarpus laurifolia</i>	21	8	4	4	0	0	37
34	Kathsagwan	<i>Haplophragma adenophyllum</i>	210	55	23	17	1	1	307
35	Kend	<i>Diospyros melanoxylon</i>	2778	48	11	7	14	49	2907
36	Koraiya	<i>Holarrhena antidysenterica</i>	1						1
37	Kusum	<i>Schleichera oleosa</i>	1	1					2
38	Mahua	<i>Madhuca indica</i>	159	39	2	2	3	1	206
39	Neem	<i>Azadirachta indica</i>	53	24	15	6	7	1	106

40	Paisar	<i>Pterocarpus Marsupium</i>	36	4	0	0	0	0	40
41	Pandan	<i>Ougeinia oojeinensis</i>	1						1
42	Pepro	<i>Gardenia latifolia</i>	110	20	3	1	1	0	135
43	Piyar	<i>Buchanania lanzan</i>	208	62	345	327	30	3	975
44	Raipan	<i>Ehretia laevis</i>	16	3	2	0	2	0	23
45	Ratangora	<i>Elaeodendron glaucum</i>	4	0	1	1	1	0	7
46	Rohan	<i>Soymida Phebriphuza</i>	176	109	24	8	8	1	326
47	Safed Siris	<i>Albizia procera</i>	11	7	4	0	2	0	24
48	Sagwan	<i>Tectona grandis</i>	413	145	24	3	1	0	586
49	Semal	<i>Bombax ceiba</i>	2	1	3	1	1	0	8
50	Shisham	<i>Dalbergia sissoo</i>	3	3	0	1	0	0	7
51	Sidha	<i>Lagerstroemia parviflora</i>	7						7
52	Siris	<i>Albizia lebbeck</i>	4	0	0	0	1	0	5
53	Aam	<i>Mangifera indica</i>				2	0	0	2
54	Amra	<i>Spondias mangifera</i>			1				1
55	Taar	<i>Borassus flabellifer</i>				1	1		2
56	Vanmunga	<i>Moringa oleifera</i>	1						1
57	Aankda		1	1	0	0	0	0	2
58	Sawra		2			2		2	6
	Total		60233	10789	1312	982	838	640	74794

Brief detail of bamboo clumps

Scientific Name	No. of Bamboo Clumps (Girth (m) (0.5-3))	Average no. of Bambo o	No. of Bambo o Clumps (Girth (m) (3-5))	Average no. of Bambo o	No. of Bambo o Clumps (Girth (m) (>5))	Average no. of Bambo o	Total no. of Clumps
Dendro calamus strictus	3946	40	529	94	63	126	4538

Village wise abstract of tree enumeration

1. Village- Burudih, Thana No. 387

S.No	Spices	Botanical Name	Girth in Cm.						Total
			0-30	31-60	61-90	91-120	121-150	>150	
1	Sal	<i>Shorea robusta</i>	34627	7148	326	24	7	12	42144
2	Asan	<i>Terminalia tomentosa</i>	218	18	2	1			239
3	Acacia	<i>Acacia</i>	11	0	2	10	6	6	35
4	Amaltash	<i>Cassia fistula</i>	16	2	2	1			21
5	Arjun	<i>Terminalia arjuna</i>	596	308	6		1		911
6	Bahera	<i>Terminalia bellirica</i>	28	2	1	4			35
7	Baken	<i>Melia azedarach</i>		1					1
8	Bargad	<i>Ficus bengalensis</i>		1	1			1	3
9	Bel	<i>Aegle marmelos</i>	2	3	3				8
10	Bhelwa	<i>Semecarpus anacardium</i>	104	18	35	14			171
11	Bhurkund	<i>Hymenodictyon excelsum</i>	36	10	1	2		1	50
12	Chakundi	<i>Cassia siamea</i>	54	49	71	42	11	2	229
13	Chatni	<i>Alstonia scholaris</i>	56	67	15	2			140
14	Chilbil	<i>Holoptelea integrifolia</i>	5	3	2				10
15	Dhautha	<i>Anogeissus latifolia</i>	1						1
16	Doka	<i>Lannea grandis</i>	424	122	13	5	3	1	568
17	Dumar	<i>Ficus hispida</i>	13	11					24
18	Eucalyptus	<i>Eucalyptus globules</i>	70	15	10	24	41	44	204
19	Farhad	<i>Erythrina indica</i>		1					1
20	Gamhar	<i>Gmelina arborea</i>	33	6					39
21	Ghorkaranj	<i>Ailanthus excelsa</i>	15	1					16
22	Gurikaram	<i>Mitragyna parvifolia</i>	107	19	1	3	0	1	131
23	Hare	<i>Terminalia chebula</i>	2	0	2	1			5
24	Imli	<i>Tamarindus indica</i>					1		1
25	Jamun	<i>Syzygium cumini</i>	173	18	9	31	19	34	284
26	Kaj	<i>Bridelia retusa</i>	15	1	1				17
27	Kaju	<i>Anacardium occidentale</i>	14	20					34
28	Karam	<i>Adina cordifolia</i>	195	37	7	4	1	2	246
29	Karanj	<i>Pongamia glabra</i>	2						2
30	Kari	<i>Miluta velutina</i>	68	9	2				79
31	Kantel /katel	<i>Hydnocarpus laurifolia</i>	8	2					10
32	Kathsagwaan	<i>Haplophragma adenophyllum</i>	75	19				1	95
33	Kend	<i>Diospyros melanoxylon</i>	699	21	7	4	12	28	771
34	Kusum	<i>Schleichera oleosa</i>	1	1					2
35	Mahua	<i>Madhuca indica</i>	134	30	2	2			168
36	Neem	<i>Azadirachta indica</i>	28	17	3	1	2		51

37	Paisar	<i>Pterocarpus Marsupium</i>	27	3					30
38	Pepero	<i>Gardenia latifolia</i>	88	18	1		1		108
39	Piyar	<i>Buchanania lanzan</i>	171	49	294	203	14		731
40	Raipan	<i>Ehretia laevis</i>	16	3	2		2		23
41	Ratangora	<i>Elaeodendron glaucum</i>	1		1				2
42	Rohan	<i>Soymida Phebriphuza</i>	28	31	5	1			65
43	Safed Siris	<i>Albizia procera</i>	9	5	1		2		17
44	Sagwan	<i>Tectona grandis</i>	33	10	1				44
45	Sawra		2			2		2	6
46	Semal	<i>Bombax ceiba</i>	2		2	1			5
47	Shisham	<i>Dalbergia sissoo</i>	3	2					5
48	Sidha	<i>Lagerstroemia parviflora</i>	7						7
49	Siris	<i>Albizia lebbeck</i>	3				1		4
	Total		38220	8101	831	382	124	135	47793

Brief Detail of Bamboo

Scientific Name	No. of Bamboo Clumps (Girth (m) (0.5-3)	Average no. of Bamboo	No. of Bamboo Clumps (Girth (m) (3-5)	Average no. of Bamboo	No. of Bamboo Clumps (Girth (m) (>5)	Average no. of Bamboo	Total no. of Clumps
Dendro calamus strictus	1378	13	143	41	15	45	1536

2. Village- Kokpara Narsingharh, Thana No. 173

S.N o	Local Name	Scientific Name	Girth in Cm.						Total
			0-30	31-60	61-90	91-120	121-150	>150	
1	Sal	<i>Shorea robusta</i>	8846	491	55	296	581	349	10618
2	Aankda			1					1
3	Aasan	<i>Terminalia tomentosa</i>	10			1			11
4	Acacia	<i>Acacia</i>	57	3		5	7	14	86
5	Amaltas	<i>Cassia fistula</i>	2	2					4
6	Arjun	<i>Terminalia arjuna</i>	3	1	1				5
7	Bahera	<i>Terminalia bellirica</i>	1		8	3	4		16
9	Bargad	<i>Ficus bengalensis</i>		2				2	4
10	Bel	<i>Aegle marmelos</i>		1					1
11	Bhelwa	<i>Semecarpus anacardium</i>	19	1	12	3			35
12	Bhurkund	<i>Hymenodictyon excelsum</i>	4	3	1				8
13	Chatni	<i>Alstonia scholaris</i>	3	3					6
14	Chilbil	<i>Holoptelea integrifolia</i>	5	4		1	1		11
15	Doka	<i>Lannea grandis</i>	601	173	8	8	5		795
16	Eucalyptus	<i>Eucalyptus globules</i>	251	12	10	13	8	11	305
8	Gamhar	<i>Gmelina arborea</i>	1						1
17	Ghorkaranj	<i>Ailanthus excelsa</i>	23	16	7	3	2		51
18	Gulmohar/Gulachi	<i>Delonix regia</i>		2					2
19	Hare	<i>Terminalia chebula</i>	0	0	1				1
20	Jamun	<i>Syzygium cumini</i>	3	0	2	5	7	8	25
21	Kaj	<i>Bridelia retusa</i>				1			1
22	Kaju	<i>Anacardium occidentale</i>	60	95	37				192
25	Karam	<i>Adina cordifolia</i>	131	110	47	13	3	0	304
26	Karanj	<i>Pongamia glabra</i>	5	3					8
23	Kari	<i>Miluta velutina</i>	3					1	4
24	Kantel /katel	<i>Hydnocarpus laurifolia</i>	6	4	1	3			14
27	Kathsagwan	<i>Haplophragma adenophyllum</i>	79	22	22	16	1		140
28	Kend	<i>Diospyros melanoxylon</i>	1263	16	2	1	1	10	1293
29	Koraiya	<i>Holarrhena antidyacnterica</i>	1						1
30	Mahua	<i>Madhuca indica</i>	1				2		3
31	Neem	<i>Azadirachta indica</i>	16	6	1	1			24
32	Paisar	<i>Pterocarpus Marsupium</i>	1						1
33	Piyar	<i>Buchanania lanzan</i>	24	10	26	73	12	1	146
34	Ratangaora	<i>Elaeodendron glaucum</i>	3						3

35	Rohan	<i>Soyimida Phebriphuza</i>	104	50	17	6	7	1	185
36	Safed Siris	<i>Albizia procera</i>		2	3				5
37	Sagwan	<i>Tectona grandis</i>	379	131	19	2	1		532
38	Shisham	<i>Dalbergia sissoo</i>		1		1			2
39	Vanmunga	<i>Moringa oleifera</i>	1						1
Total			11906	1165	280	455	642	397	14845

Brief Detail of Bamboo

Scientific Name	No. of Bamboo Clumps {Girth (m) (0.5-3)}	Average no. of Bamboo	No. of Bamboo Clumps {(Girth (m) (3-5)}	Average no. of Bamboo	No. of Bamboo Clumps {(Girth (m) (>5)}	Average no. of Bamboo	Total no. of Clumps
Dendro calamus strictus	1799	11	250	25	38	48	2087

3. Village- Deosol, Thana No. 191

S.No	Spices	Botanical Name	Girth in Cm.						Total
			0-30	31-60	61-90	91-120	121-150	>150	
1	Sal	<i>Shorea robusta</i>	4808	590	72	17	0	3	5490
2	Asan	<i>Terminalia tomentosa</i>	7						7
3	Bahera	<i>Terminalia bellirica</i>			1			1	2
4	Bhelwa	<i>Semecarpus anacardium</i>			10	1	1		12
5	Doka	<i>Lannea grandis</i>	124	39	3				166
6	Dumar	<i>Ficus hispida</i>							0
7	Ghorkaranj	<i>Ailanthus excelsa</i>	2	1					3
8	Jamun	<i>Syzygium cumini</i>				1	2		3
9	Kaj	<i>Bridelia retusa</i>	2						2
11	Karam	<i>Adina cordifolia</i>	8	1		1			10
10	Kantel /katel	<i>Hydnocarpus laurifolia</i>	4	1	3				8
12	Kathsagwan	<i>Haplophragma adenophyllum</i>	38	8	1				47
13	Kend	<i>Diospyros melanoxylon</i>	165	2	2			3	172
14	Mahua	<i>Madhuca indica</i>	21	9				1	31
15	Neem	<i>Azadirachta indica</i>	1	1					2
16	Paisar	<i>Pterocarpus Marsupium</i>	1						1
17	Pepro	<i>Gardenia latifolia</i>	22	2	2	1			27
18	Piyar	<i>Buchanania lanzan</i>	11	2	19	36	3		71
19	Rohan	<i>Soymida Phebriphuza</i>	27	19	0	0	1		47
20	Safed Siris	<i>Albizia procera</i>	1						1
21	Semal	<i>Bombax ceiba</i>			1				1
	Total		5242	675	114	57	7	8	6103

4. Village- Charchaka, Thana No. 338

S.No	Spices	Botanical Name	Girth in Cm.						Total
			0-30	31-60	61-90	91-120	121-150	>150	
1	Sal	Shorea robusta	3886	758	45	13	0	36	4738
2	Aasan	Terminalia tomentosa	35	6					41
3	Acacia	Acacia Arabica					1		1
4	Amaltash	Cassia fistula	3						3
5	Ankara		1						1
6	Bahera	Terminalia bellirica						1	1
7	Bhelwa	Semecarpus anacardium	7	1	4	7			19
8	Chakundi	Cassia siamea	8	2		1	2		13
9	Chhatni	Alstonia scholaris		4	1				5
10	Chilbil	Holoptelea integrifolia	11	4	1	6	5	2	29
11	Doka	Lannea grandis	110	19	5	3		2	139
12	Eucalyptus	Eucalyptus globules	8	0	3	15	25	22	73
13	Ghorkaranj	Ailanthus excelsa	1						1
14	Hare	Terminalia chebula	1			1			2
15	Jamun	Syzygium cumini	4	1		4		3	12
16	Kadam	Anthocephalus cadamba	16	4					20
17	Kaju	Anacardium occidentale	7	5					12
18	Karam	Adina cordifolia	46	12	1		1	2	62
19	Kantel	Hydnocarpus laurifolia	3	1		1			5
20	Kathsagwan	Haplophragma adenophyllum	18	6		1			25
21	Karanj	Pongamia glabra	3						3
22	Kari	Miluta velutina	3			1			4
23	Kend	Diospyros melanoxyton	651	9		2	1	8	671
24	Mahua	Madhuca indica	3				1		4
25	Neem	Azadirachta indica	7		4		1		12
26	Paisar	Pterocarpus Marsupium	7	1					8
27	Pandan	Ougeinia oojeinensis	1						1
28	Piyar	Buchanania lanzan	2	1	6	15	1	2	27
29	Ratangora	Elaeodendron glaucum				1	1		2
30	Rohan	Soymida Phebriphuza	17	9	2	1			29
31	Safed Siris	Albizia procera	1						1
32	Sagwan	Tectona grandis	1		1				2
33	Semal	Bombax ceiba		1			1		2
Total			4861	844	73	72	40	78	5968

Brief Detail of Bamboo

Scientific Name	No. of Bamboo Clumps {Girth (m) (0.5-3)}	Average no. of Bamboo	No. of Bamboo Clumps {(Girth (m) (3-5)}	Average no. of Bamboo	No. of Bamboo Clumps {(Girth (m) (>5)}	Average no. of Bamboo	Total no. of Clumps
Dendro calamus strictus	769	16	136	28	10	33	915

5. Village- Ruasol, Thana No. 175

S.No	Spices	Botanical Name	Girth in Cm.						
			0-30	31-60	61-90	91-120	121-150	>150	Total
1	Chakundi	Cassia siamea					1		1
2	Eucalyptus	Eucalyptus globules			1	2	3	2	8
Total			0	0	1	2	4	2	9

6. Tree under proposed approached road.

S.No	Spices	Botanical Name	Girth in Cm.						
			0-30	31-60	61-90	91-120	121-150	>150	Total
	Sal				1	6	16	19	42
1	Aam	<i>Mangifera indica</i>				2	0	0	2
2	Amra	<i>Spondias mangifera</i>			1				1
3	Karam	<i>Adina cordifolia</i>	2		1				3
4	Neem	<i>Azadirachta indica</i>	1		7	4	4	1	17
5	Sagwan	<i>Tectona grandis</i>		4	3	1			8
6	Siris	<i>Albizia lebbeck</i>	1						1
7	Taar	<i>Borassus flabellifer</i>				1	1		2
Total			4	4	13	14	21	20	76

*Note: - Village wise single entries of trees are attached.