

Gandhamardan (Block-A) Iron Ore Mines of M/s O.M.C. LTD

Final abstract of Tree Enumeration within the Gandhamardan PRF and Village Forest over 378.3024 ha of virgin forest area and 23.48 ha of broken up forest area

Sl No.	Type of Species	Name of Species	30 to 59 CM		60 to 89 Cm		90 to 119 Cm		120m to 149 Cm		150 to 179 Cm		180 Cm and above		Total		G. Total
			N	D	N	D	N	D	N	D	N	D	N	D	N	D	
1	Special Category	Sisoo	2	6	0	1	1	0	0	0	0	0	0	0	3	7	10
1	1st Class	Sal	18	2482	80	643	48	95	15	14	3	3	0	0	164	3237	3401
2	Category	Pia-Sal	3	70	4	12	0	1	0	0	0	0	0	0	7	83	90
3		Gambhari	0	9	0	4	1	0	0	0	0	0	0	0	1	13	14
4		Bandhan	0	14	0	6	0	2	0	0	0	0	0	0	0	22	22
5		Kuruma	0	102	0	18	0	4	0	0	0	0	0	0	0	124	124
		Total 1st Class	21	2677	84	683	49	102	15	14	3	3	0	0	172	3479	3651
1	2nd Class	Asan	10	793	7	41	0	11	0	1	0	1	0	0	1	17	865
2	Category	Jamu	1	476	5	115	3	30	1	10	0	1	0	2	10	634	644
3		Dhaura	1	162	0	35	1	11	0	1	1	1	0	0	3	210	213
4		Kendu	10	917	1	62	0	7	3	9	1	7	0	5	15	1007	1022
5		Kasli	2	60	1	8	1	0	0	0	0	0	0	0	4	68	72
6		Mango (Amba)	1	8	0	6	1	4	0	0	1	2	8	7	11	27	38
		Total 2nd Class	25	2416	14	267	6	63	4	21	3	12	8	15	60	2794	2854
1	3rd Class	Ajun	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1
2	Category	Mahula	2	41	2	7	0	1	3	1	1	2	3	7	11	59	70
3		Bahada	3	380	0	30	0	12	0	0	0	0	0	1	3	423	426
4		Harida	1	154	0	3	0	0	0	0	0	0	0	0	1	157	158
5		Kusuma	1	171	0	52	1	9	1	6	3	9	7	10	13	257	270
6		Chara	5	1176	1	91	0	7	0	0	0	0	0	0	6	1274	1280
7		Anla	0	10	0	1	0	0	0	1	0	0	0	0	0	12	12
8		Kumbhi	0	48	0	7	0	0	0	0	0	0	0	0	0	55	55
9		Bela	7	72	0	2	0	2	0	0	0	0	0	0	7	76	83
10		Bara	0	3	0	1	0	2	0	0	0	1	0	5	0	12	12
11		Misc.	25	3281	20	770	12	229	3	59	2	25	1	17	63	4381	4444
		Total 3rd Class	44	5337	23	964	13	262	7	67	6	37	11	40	104	6707	6811
		Grand Total	92	10436	121	1915	69	427	26	102	12	52	19	55	339	12987	13326

No of Units. = 1336.78 units

Quantum of Forest Produce from the Forest Land involved in the virgin & broken up forest area.

i) Nos. of units in virgin forest area = 1250.12 units/ 52 x 378.3024 ha. = 9094.6807 units

Nos. of units in broken up forest area=329.01 units

Total no. of units=9094.6807+329.01=9423.6907 units

ii) Approximate additional Firewood. = 943 Truck load

iii) Trees below 30 cms. Girth in virgin forest= 248 Nos./52 x 378.3024 ha. = 1804 Nos.

Trees below 30 cms. Girth in broken up forest=250 Nos.

Total no. of trees below 30 cms. Girth=2054= 7 trucks load

iv) Value of Minor Forest Produce in lumpsum = Rs.1,00,000/-

v) Total no of trees= 86100 trees + 1491 trees = 87591 trees

Divisional Forest Officer,
Keonjhar Division

CALCULATION OF UNIT VALUE OF TIMBER

Final abstract of Tree Enumeration within the Gandhamardan PRF and Village Forest over 378.3024 ha of virgin forest area and 23.48 ha of broekn up forest area

Gandhamardan (Block-A) Iron Ore Mines of M/s O.M.C. LTD

Girth / Class

Spl. Class

	Sound				Unsound			
Under 60 cm	2	X	0.50	=	1.00	6	X	0.25 = 1.50
60 cm to U/90 cm	0	X	1.00	=	0.00	1	X	0.50 = 0.50
90 cm to U/120 cm	1	X	2.00	=	2.00	0	X	1.00 = 0.00
120 cm to U/150 cm	0	X	4.00	=	0.00	0	X	2.00 = 0.00
150 cm to U/180 cm	0	X	8.00	=	0.00	0	X	4.00 = 0.00
180 cm and Above	0	X	12.00	=	0.00	0	X	6.00 = 0.00
	3			=	3.00	7		= 2.00

1st. Class

	Sound				Unsound			
Under 60 cm	21	X	0.25	=	5.25	2677	X	0.12 = 321.24
60 cm to U/90 cm	84	X	0.50	=	42.00	683	X	0.25 = 170.75
90 cm to U/120 cm	49	X	1.00	=	49.00	102	X	0.50 = 51.00
120 cm to U/150 cm	15	X	2.00	=	30.00	14	X	1.00 = 14.00
150 cm to U/180 cm	3	X	4.00	=	12.00	3	X	2.00 = 6.00
180 cm and Above	0	X	6.00	=	0.00	0	X	3.00 = 0.00
	172			=	138.25	3479		= 562.99

2nd. Class

	Sound				Unsound			
Under 60 cm	25	X	0.12	=	3.00	2416	X	0.06 = 144.96
60 cm to U/90 cm	14	X	0.25	=	3.50	267	X	0.12 = 32.04
90 cm to U/120 cm	6	X	0.50	=	3.00	63	X	0.25 = 15.75
120 cm to U/150 cm	4	X	1.00	=	4.00	21	X	0.50 = 10.50
150 cm to U/180 cm	3	X	2.00	=	6.00	12	X	1.00 = 12.00
180 cm and Above	8	X	3.00	=	24.00	15	X	1.50 = 22.50
	60			=	43.50	2794		= 237.75

3rd. Class

	Sound				Unsound			
Under 60 cm	44	X	0.06	=	2.64	5337	X	0.03 = 160.11
60 cm to U/90 cm	23	X	0.12	=	2.76	964	X	0.06 = 57.84
90 cm to U/120 cm	13	X	0.25	=	3.25	262	X	0.12 = 31.44
120 cm to U/150 cm	7	X	0.50	=	3.50	67	X	0.25 = 16.75
150 cm to U/180 cm	6	X	1.00	=	6.00	37	X	0.50 = 18.50
180 cm and Above	11	X	1.50	=	16.50	40	X	0.75 = 30.00
	104			=	34.65	6707		= 314.64

Total Sound = 339 Nos = 219.40 Unit

Total Unsound = 12987 Nos = 1117.38 Unit

TOTAL 13326 Nos = 1336.78 Unit


Divisional Forest Officer,
Keonjhar Division.

Gandhamardan (Block-A) Iron Ore Mines of M/s O.M.C. LTD

26 Nos. sample plots (2 ha each) Tree Enumeration within the Gandhamardan PRF and Village Forest over 378.3024 ha

Sl No.	Type of Species	Name of Species	30 to 59 CM		60 to 89 CM		90 to 119 CM		120m to 149 CM		150 to 179 CM		180 CM and above		Total		G. Total
			N	D	N	D	N	D	N	D	N	D	N	D	N	D	
1	Special Category	Sisoo	2	6	0	1	1	0	0	0	0	0	0	0	3	7	10
1	1st Class	Sal	14	2465	80	635	48	95	15	14	3	3	0	0	160	3212	3372
2	Category	Pra-Sal	3	41	4	10	0	1	0	0	0	0	0	0	7	52	59
3		Gambhari	0	9	0	4	1	0	0	0	0	0	0	0	1	13	14
4		Bandhan	0	14	0	6	0	2	0	0	0	0	0	0	0	22	22
5		Kuruma	0	102	0	18	0	4	0	0	0	0	0	0	0	124	124
		Total 1st Class	17	2631	84	673	49	102	15	14	3	3	0	0	168	3423	3591
1	2nd Class	Asan	3	671	7	37	0	10	0	1	0	1	0	1	10	721	731
2	Category	Jannu	1	431	5	104	3	28	1	10	0	1	0	2	10	576	586
3		Dhaura	1	159	0	35	1	11	0	1	1	1	0	0	3	207	210
4		Kendu	3	800	1	52	0	7	3	8	1	7	0	5	8	879	887
5		Kashi	1	30	1	7	1	0	0	0	0	0	0	0	3	37	40
6		Mango (Ambe)	1	5	0	3	1	2	0	0	1	2	8	7	11	19	30
		Total 2nd Class	10	2096	14	238	6	58	4	20	3	12	8	15	45	2439	2484
1	3rd Class	Ajun	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1
	Category	Mahula	2	41	2	7	0	1	3	1	1	2	3	7	11	59	70
3		Bahada	1	314	0	19	0	10	0	0	0	0	0	1	1	344	345
4		Harida	1	133	0	3	0	0	0	0	0	0	0	0	1	136	137
5		Kusuma	1	159	0	46	1	9	1	5	3	9	7	10	13	238	251
6		Chara	5	1107	1	76	0	6	0	0	0	0	0	0	6	1189	1195
7		Anla	0	7	0	1	0	0	0	0	0	0	0	0	0	8	8
8		Kumbhi	0	33	0	4	0	0	0	0	0	0	0	0	0	37	37
9		Bela	0	22	0	2	0	1	0	0	0	0	0	0	0	25	25
10		Bara	0	1	0	0	0	0	0	0	0	0	0	2	0	3	3
11		Misc.	15	2735	19	632	10	181	3	47	1	21	1	13	49	3629	3678
		Total 3rd Class	25	4553	22	790	11	208	7	53	5	32	11	33	81	5669	5750
		Grand Total	54	9286	120	1702	67	368	26	87	11	47	19	48	297	11538	11835

No of Units. = 1250.12 units

Trees below 30 cms. girth = 248 Nos.

Quantum of Forest Produce from the Forest Land involved in the virgin forest area.

i) Total nos. of units = 1250.12 units/ 52 x 378.3024 ha. = 9094.6807 units

ii) Total nos. of trees = 11835 trees/ 52 x 378.3024 ha. = 86100 trees

iii) Approximate additional Firewood. = 910 Truck load

iv) Trees below 30 cms. Girth = 248 Nos./52 x 378.3024 ha. = 1804 Nos. = 6 Truck load

v) Value of Minor Forest Produce in lumpsum = Rs.1,00,000/-

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Divisional Forest Officer,
Keonjhar Division

Gandhamardan (Block-A) Iron Ore Mines of M/s O.M.C. LTD

100% Tree Enumeration over 23.48 ha of broken up forest land within the Gandhamardan PRF

Sl No.	Type of Species	Name of Species	30 to 59 CM		60 to 89 Cm		90 to 119 Cm		120m to 149 Cm		150 to 179 Cm		180 Cm and above		Total		G. Total
			N	D	N	D	N	D	N	D	N	D	N	D	N	D	
1	Special Category	Sisoo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1st Class Category	Sal	4	17	0	8	0	0	0	0	0	0	0	0	4	25	29
2		Pia-Sal	0	29	0	2	0	0	0	0	0	0	0	0	0	31	31
3		Ganbhari	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4		Bandhan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5		Kuruma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total 1st Class	4	46	0	10	0	0	0	0	0	0	0	0	4	56	60
1	2nd Class Category	Asan	7	122	0	4	0	1	0	0	0	0	0	0	7	127	134
2		Jamu	0	45	0	11	0	2	0	0	0	0	0	0	0	58	58
3		Dhaura	0	3	0	0	0	0	0	0	0	0	0	0	0	3	3
4		Kendu	7	117	0	10	0	0	0	0	0	0	0	0	7	128	135
5		Kashi	1	30	0	1	0	0	0	0	0	0	0	0	1	31	32
6		Mango (Amba)	0	3	0	3	0	2	0	0	0	0	0	0	0	8	8
		Total 2nd Class	15	320	0	29	0	5	0	0	0	0	0	0	15	355	370
1	3rd Class Category	Arijun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2		Mahula	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3		Bahada	2	66	0	11	0	2	0	0	0	0	0	0	2	79	81
4		Harida	0	21	0	0	0	0	0	0	0	0	0	0	0	21	21
5		Kusuma	0	12	0	6	0	0	0	0	0	0	0	0	0	19	19
6		Chara	0	69	0	15	0	1	0	0	0	0	0	0	0	85	85
7		Anla	0	3	0	0	0	0	0	0	0	0	0	0	0	4	4
8		Kumbhi	0	15	0	3	0	0	0	0	0	0	0	0	0	18	18
9		Bela	7	50	0	0	0	1	0	0	0	0	0	0	7	51	58
10		Bara	0	2	0	1	0	2	0	0	0	0	0	0	3	9	9
11		Misc.	10	546	1	138	2	48	0	12	1	4	0	4	14	752	766
		Total 3rd Class	19	784	1	174	2	54	0	14	1	5	0	7	23	1038	1061
		Grand Total	38	1150	1	213	2	59	0	15	1	5	0	7	42	1449	1491

No of Units. = 329.01 units

Trees below 30 cms. girth = 250 Nos.

Quantum of Forest Produce from the Forest Land involved in the broken up forest area.

- i) Total nos. of units = 329.01 units
 ii) Approximate additional Firewood. = 33 Truck load
 iii) Trees below 30 cms. Girth = 250 Nos. = 1 Truck load
 iv) Value of Minor Forest Produce in lumpsum = Rs.1,00,000/-

Divisional Forest Officer,
 Keonjhar Division