

COST NORM FOR BLOCK PLANTATION (TEAK) FOR COMPENSATORY AFFORESTATION AT ORKEL & CHITTAPARI OF KORUKONDA C.D. BLOCK, DIST:MALKANGIRI

Spacing: 2.5 Mtr x 2.5 Mtr

No. of Plants to be Planted: 1600 Plants/Ha.

Wage rate: @200/-Per MD

"0" the Year

Sl. No	Item of Work		Mandays	Amount	Material Cost (Rs)	Total(Rs)	Remarks
1	Survey, Demarcation & Pillar posting	Nov/Dec	2 MD	400.00	0.00	400.00	
2	Site Preparation	Nov/Dec	8 MD	1600.00	0.00	1600.00	
3	Alignment & Stacking of pit	Jan/Feb	2 MD	400.00	0.00	400.00	
4	Digging up pits (30x30x30)cum	Feb/Mar	40MD	8000.00	0.00	8000.00	
5	Nursery cost (6 Month's old seedlings) @ Rs.6.67/seedlings.(part) for 1760no's	Jan -Mar	44MD	8800.00	2939.00	11739.00	
	Total		96 MD	19200.00	2939.00	22139.00	

1st Year (Creation)

Sl. No	Item of Work		Mandays	Amount	Material Cost (Rs)	Total(Rs)	Remarks
7	Nursery cost (Balance)@Rs.2.78/seedlings (six month oldseedlings) for 1760 no's	April-July	21.5MD	4300.00	593.00	4893.00	
8	Carriage & Planting , Casualty replacement and application of insecticides,manure etc.	July/August	21 MD	4200.00	0.00	4200.00	
9	Cost of insecticides and Fertilizer		0	0.00	3232.00	3232.00	
10	1st Weeding (Complete weeding)	Aug/Sept	7 MD	1400.00	0.00	1400.00	
11	Manuring	Aug/Sept	5 MD	1000.00	0.00	1000.00	
12	2nd Weeding (Complete weeding)	Sept/Oct	5 MD	1000.00	0.00	1000.00	
13	Soli working (50cm radius around plants)	Sept/Oct	7 MD	1400.00	0.00	1400.00	
14	Soil conservation measure (SMC)in form of staggered trench of size 2mx0.5mx0.5mx @30 no's per ha	Sept/Oct	10 MD	2000.00	0.00	2000.00	
15	Fire line and inspection path (2Mtr wide fire line over 400 Mtr long)	Feb/Mar	3 MD	600.00	0.00	600.00	
17	Watch & Ward for 8 month (August to March)@ 2600/- per Ha	Aug-Mar	7MD	1400.00	0.00	1400.00	
	Total		86.5MD	17300.00	3825.00	21125.00	

2nd Year (Maintenance)

Sl. No	Item of Work		Mandays	Amount	Material Cost (Rs)	Total(Rs)	Remarks
18	Casualty Replacement with Nursery Cost	Jul/Aug	4MD	800.00	1512.00	2312.00	
19	Weeding (Complete Weeding)	Sept/Oct	6 MD	1200.00	0.00	1200.00	
20	Application of fertilizer and insecticides	Sept/Oct	4 MD	800.00	0.00	800.00	
21	Cost of fertilizer and insecticide		LS	0.00	2752.00	2752.00	
22	Soil working (50cm Radius around plant)	Oct/Nov	7 MD	1400.00	0.00	1400.00	
23	Fire line tracing (2 mtr wide fire line over 400 mtr long)	Feb/Mar	3 MD	600.00	0.00	600.00	
24	Watch & Ward (12 months)	April-Mar	15MD	3000.00		3000.00	
	Total		39MD	7800.00	4264.00	12064.00	


3rd Year (Maintenance)

Sl. No	Item of Work		Mandays	Amount	Material Cost (Rs)	Total(Rs)	Remarks
26	Weeding and Application of fertilizer	Aug-Sept	7 MD	1400.00	0.00	1400.00	
27	Cost of fertilizer		0	0.00	1920.00	1920.00	
28	Soli working (50cm Radius around plant)	Oct/Nov	7 MD	1400.00	0.00	1400.00	
29	Fire line tracing (2mtr wide fire line over 400 mtr long)	Feb/Mar	3 MD	600.00	0.00	600.00	
30	Watch & Ward (12 months)	April-Mar	15MD	3000.00		3000.00	
	Total		32MD	6400.00	1920.00	8320.00	

ABSTRACT

Sl.No.	Name of the Project	Area to be afforested	Year of plantation	Cost norm per Ha (Rs)	Amount required(Rs) for 18.5 Ha.
1	2	3	4	5	6
1	Construction of 220KV Balimela to Malkangiri DC Line by the OPTCL, EHT (Construction) Division, Jeypore	18.5 Ha.	"0"th Year(Adv.)	22139.00	409571.50
2			1st Year	21125.00	390812.50
3			2nd year	12064.00	223184.00
4			3rd Year	8320.00	153920.00
5			4th Year	4600.00	85100.00
6			5th Year	3600.00	66600.00
7			6th	3600.00	66600.00
8			7th year	3600.00	66600.00
9			8th year	3600.00	66600.00
10			9th year	3600.00	66600.00
11			10th year	3600.00	66600.00
	Total			89848.00	1662188.00
12	CC Pillars=1000 Nos. for 2000Mtr@449.6/-Per Mtr				899200.00
13	Add Maintenance fencing 4th year				90000.00
14	Add Supervision charges for monitoring (Vehicle,fuel etc)				135000.00
15	EPA (Digging up Ponds) local demanding				500000.00
	Grand Total				3286388.00

NB: 18.5 Ha. Area to be afforested out of 20.266 Ha.


 Divisional Forest Officer
 Malkangiri Division

**SCHEME FOR COMPENSATORY AFFORESTATION FOR DIVERSION OF FOREST LAND
OF BALIMELA-MALKANGIRI 220KV TRANSMISSION LINE, OPTCL, JEYPURE UNDER
MALKANGIRI & CHITRAKONDA TAHASIL OF MALKANGIRI DISTRICT.**

Introduction:-

This scheme is prepared for compensatory Afforestation in Revenue land in view of diversion of forest by OPTCL, Jeypore . OPTCL, Jeypore a State Government undertaking company for proposed the 220KV Transmission Line from Balimela to Malkangiri under Malkangiri District. The Transmission line is proposed over 18.5 Ha. Revenue forest land which is scatted over 160 nos. of Plots comprises of 79 nos. of Forest Patches. However the OPTCL, Jeypore has agreed of provide fund for raising of compensatory plantation over 18.5 Ha. having Kissam Nala, Patita & Pathara Bani in lieu of 18.5 Ha. Forest Land.

1. DETAILS OF NON-FOREST LAND

District-Malkangiri

Village- Orkel & Chitapari

Tahasil- Chitrakonda

The Revenue land for compensatory has been identified in Orkel & Chitapari village over 18.5 Ha under Chitrakonda Tahasil of Malkangiri District. The Tahasildar, Chitrakonda vide Letter No- 854 dt 27.06.2017 reported that the proposed area is free from encroachment and encumbrances and suitable for plantation from management point of view is outlined as below.

Land schedule of land prepared for Compensatory Afforestation.

Tahasil	Village	Khata No.	Plot No.	Area in Ha.	Kissam
Chitrakonda	Orkel	03	01	2.840	Nala
			02	0.995	Patita
			03	0.500	Nala
			04	0.520	Patita
			05	0.680	Patita
			06	1.050	Patita
			07	0.580	Patita
			08	0.195	Patita
			09	1.220	Patita
			10	0.295	Patita
			243	0.100	Patita
			46	1.480	Patita
			45	1.100	Patita
			44	0.160	Patita
			41	0.230	Patita
	Chitapari	134	1430	1.641	Pathara Bani
			1431	1.280	Pathara Bani
			1433	5.400	Pathara Bani

2. Description of Area:-

i. Whether the site selected for compensatory Afforestation is a land bank or not:

This identified Revenue land and is under the control of revenue department and classified as "Nala, Patita & Pathara Bani" And it is not a land bank.

ii. If the CA Site is other than the land bank, reasons be given:-

There is no alternate suitable land is available. Therefore the Revenue land area has been selected for CA.

iii. In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:-

The CA site is at a distance of 200 meter from Orkel & Chitapari village and 1.0 km away from Chitapari RF.

iv. Soil type:- Alluvial (Morrum Soil)

v. Topography:- The topography configuration of the identified site is small hilly.

vi. Slope:- Gentle to moderate slope.

vii. Whether the area is bearing any root stoke of vegetation: - No

viii. Temperature:- This area experiences cold weather between November to January when the temperature drops less than 12 C . The summer is very severe in Malkangiri and sometimes the temperature rises from February onwards reaching 42 C to 45 C in summer.

ix. Climate and Rainfall:- The area has a tropical to sub-tropical climate with monsoon rains from 2nd week June to September and occasional rains during winter. This area also occasional gutsy wind to heavy thunderstorms during summer seasons (April to June). The rainfall Is about 1410.00 mm.

3. Plantation Model:- The identified site is Orkel & Chitapari village over 18.5 Ha has poor soil depth with gentle slope. It is proposed for taking of block plantation @1600 plants/Ha .

4. Schedule of Plantation programme:-

Details of year wise break up of requirements of funds as under:

Year	Area in Ha	Rate / Ha	Total Amount
0 th year	18.50Ha	22139.00	409571.50
1 st year	-do-	21125.00	390812.50
2 nd year	-do-	12064.00	223184.00
3 rd year	-do-	8320.00	153920.00
4 th year	-do-	4600.00	85100.00
5 th year	-do-	3600.00	66600.00
6 th year	-do-	3600.00	66600.00
7 th year	-do-	3600.00	66600.00
8 th year	-do-	3600.00	66600.00
9 th year	-do-	3600.00	66600.00
10 th year	-do-	3600.00	66600.00
Total	18.50 Ha	89848.00	1662188.00

5. Technical Details:-

Objective of the scheme:-

i) The main objective of the scheme is to take up the Block Plantation in Revenue land and every possible effort shall be made to successful establishment of plantation.

ii) Creation of asset for the community meet their bonafide requirements and also generate employment to improve the socio-economic status during the implementation of the scheme.

a) General Details:-

i) **Survey and demarcation of boundary:-** The identified area is to be surveyed and GPS co-ordinate of each pillar will be taken. Survey and posting of R.C.C pillars will be done by User Agency.

ii) **Spacement:-** The spacement adopted for plantation is 2.5 mtr x 2.5 mtr .

iii) **Species:-** Although indigenous species are to be preferred in the plantation, considering adverse soil and moisture conditions the following species are to be planted.

Sl no.	Common name	Scientific name	Remarks
1	Teak	Tectona grandis	Potted seedling from pre-sprouted stumps will be planted
2	Neem	Azadirachta indica	-
3	Sissoo	Dalbergia sissoo	In lower areas with good soil depth
4	Gamhar	Gmelina arborea	In lower areas with good soil depth
5	Mango	Mangifera indica	-
6	Jafra	Bixa orellana	-

iv) **Method of raising plantation:-** Block plantation over 18.5 Ha shall be taken up with 1600 plants per Ha at a spacing of 2.5 mtr x 2.5 mtr. The standard size of pit 30 cm x 30 cm x 30 cm shall be dug in the entire area . The planting of polypot seedlings will be taken up after onset of monsoon. At the time of planting, insecticides and fertilizers shall be applied as a basal doze depending on the requirement .

Post planting operations shall be including causality replacement, weeding, soil working and other operations to be carried out as per calendar of operations.

v) **Soil and moisture conservation works:-** Half-moon trenches should be constructed on down side of the plants. In the slopes staggered trenches of 2.5m x 0.5m x 0.5m should be dug in between the planting line along the contours. On the other hand Gully plugging, check dams and percolation pits to be constructed as per site specification.

vi) **Protection :-** Protection should be done by way of watch and ward and people's participation.

6. Proposed monitoring mechanism:- The scheme shall be executed by the department staffs through regular inspection and checking. All prescribed records are to be maintained by the department staffs.

7. **Any other information:-** Work to be carried out as per the technical advice of the concerned forestry experts such as D.F.O, ACF and Range Officer concerned .

8. **Total cost of the project:** - The total cost of the project will be Rs 1662188.00 (Rupees Sixteen Lakh Sixty two thousand One Hundred Eighty Eight only), which shall be payable by the User Agency as per the advice of Divisional Forest Officer.



Divisional Forest Officer
Malkangiri Forest Division.
Malkangiri, Division

4th Year (Maintenance)

Sl. No	Item of Work	Mandays	Amount	Material Cost (Rs)	Total(Rs)	Remarks
	Prunning/Uprooting unwanted weeds growth	5 MD	1000.00	0.00	1000.00	
33	Fire line tracing (2mtr wide fire line over 400 mtr long)	3 MD	600.00	0.00	600.00	
34	Watch & Ward (12 months)	15MD	3000.00		3000.00	
	Total	23 MD	4600.00	0.00	4600.00	

5th Year (Maintenance)

Sl. No	Item of Work	Mandays	Amount	Material Cost (Rs)	Total(Rs)	Remarks
37	Fire line tracing (2mtr wide fire line over 400 mtr long)	3 MD	600.00	0.00	600.00	
38	Watch & Ward (12 months)	15MD	3000.00		3000.00	
	Total	18MD	3600.00	0.00	3600.00	

6th Year (Maintenance)

Sl. No	Item of Work	Mandays	Amount	Material Cost (Rs)	Total(Rs)	Remarks
41	Fire line tracing (2mtr wide fire line over 400 mtr long)	3 MD	600.00	0.00	600.00	
42	Watch & Ward (12 months)	15MD	3000.00		3000.00	
	Total	18MD	3600.00	0.00	3600.00	

7th Year (Maintenance)

Sl. No	Item of Work	Mandays	Amount	Material Cost (Rs)	Total(Rs)	Remarks
44	Fire line tracing (2mtr wide fire line over 400 mtr long)	3 MD	600.00	0.00	600.00	
45	Watch & Ward (12 months)	15MD	3000.00		3000.00	
	Total	18MD	3600.00	0.00	3600.00	

8th Year (Maintenance)

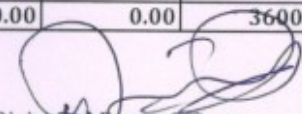
Sl. No	Item of Work	Mandays	Amount	Material Cost (Rs)	Total(Rs)	Remarks
47	Fire line tracing (2mtr wide fire line over 400 mtr long)	3 MD	600.00	0.00	600.00	
	Watch & Ward (12 months)	15MD	3000.00		3000.00	
	Total	18MD	600.00	0.00	3600.00	

9th Year (Maintenance)

Sl. No	Item of Work	Mandays	Amount	Material Cost (Rs)	Total(Rs)	Remarks
	Fire line tracing (2mtr wide fire line over 400 mtr long)	3 MD	600.00	0.00	600.00	
49	Watch & Ward (12 months)	15MD	3000.00		3000.00	
	Total	18MD	3600.00	0.00	3600.00	

10th Year (Maintenance)

Sl. No	Item of Work	Mandays	Amount	Material Cost (Rs)	Total(Rs)	Remarks
51	Fire line tracing (2mtr wide fire line over 400 mtr long)	3 MD	600.00	0.00	600.00	
	Watch & Ward (12 months)	15MD	3000.00		3000.00	
	Total	18MD	3600.00	0.00	3600.00	


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