

OFFICE OF THE DIVISIONAL FOREST OFFICER, PHULBANI FOREST DIVISION

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Memo No. 2968 / 4F- 23/ Dated. 18.5.23 //

To

The Principal Chief Conservator of Forests, (Nodal)
O/o the Principal Chief Conservator of Forests & HoFF,
Bhubaneswar, Odisha.

Sub: Identification of additional Compensatory Afforestation land for the Project Improvement of Road from Samapaju to Panisal road Under Inter District Inter Block connectivity for the 2020-21 in the district of Kandamal – regarding.

Ref: This office Memo No. 2385 dated 02.05.2023.

With reference to above, it is to bring to your kind notice that the CA land proposed by User Agency at Jharbalasakumpa of 9.195 ha. for this diversion project was found to be suitable for ANR 200 plantation.

For plantation of balance seedling over 7356 nos a degraded forest land site over 6.25ha in Rehabilitation Working Circle (RWC) area of Tikabali Range is proposed. The details of degraded forest land is as below:-

Range/Section	Proposed site in RWC (RF/PRF)	Area in (Ha)	Suitable Plantation Model	Encroachment status	Plantation taken previously if any	Remarks
Tikabali/Chakapad	Nandini 'B' PRF	6.25 Ha.	'Bald Hill Plantation'	NIL	NO	As there is no cost norm for bald hill plantation in onetime cost norm for CA, it is proposed for bald hill plantation under plantation cost norm-2019

The GPS Coordinates, Map & KML shape file of the proposed degraded forest land for additional CA is enclosed herewith.

This is for favour of your kind information and necessary 'approval' for Bald Hill plantation model in the proposed site (6.25ha.) under plantation cost norm 2019 for additional CA as per prevailing wage rate @345/- as the same is not in the one time cost norm.

Encl:- 1) As above

2) Additional CA scheme for approval.

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Copy forwarded to the Regional Chief Conservator of Forests Berhampur Circle, Berhampur for favor of kind information and necessary action.

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CALCULATION SHEET TO RAISE DEMAND OF THE ADDITIONAL C.A
Project Name:- Improvement of road from Samapaju to Panisal under Inter
District Inter Block connectivity

Balance seedling to be planted	7356
Plantation Model	Bald Hill
Effective area to be planted	4.5975
Per ha. Cost	491965.6875
Total cost to be raised from User agency for the additional C.A	2261812.248
or	2261813


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ABSTRACT

Sl No.	Year	No. of person Day	Labour cost @ Rs.345/- per day	Material Cost (Rs.)	Monitoring & Supervision charge 5% of the total cost	Total cost in (Rs.)
1	0th Year	344	118680	10610.25	6464.5125	135754.7625
2	1st Year	253.5	87457.5	17373	5241.525	110072.025
3	2nd Year	114	39330	6513	2292.15	48135.15
4	3rd Year	73	25185	500	1284.25	26969.25
5	4th Year	66	22770	500	1163.5	24433.5
6	5th Year	66	22770	500	1163.5	24433.5
7	6th Year	66	22770	500	1163.5	24433.5
8	7th Year	66	22770	500	1163.5	24433.5
9	8th Year	66	22770	500	1163.5	24433.5
10	9th Year	66	22770	500	1163.5	24433.5
11	10th Year	66	22770	500	1163.5	24433.5
	Total		430042.5	38496.25	23426.9375	491965.6875


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COST NORM FOR BALD HILL PLANTATION @1600 PLANTS PER HECTARE
(Labour Cost @ Rs. 345/- per manday)

Sl No.	Item of Work	Preferable period of Execution	Manday	Labour cost	Material cost	Total cost
1	2	3	4	5	6	7
PREPARATORY OPERATION (0TH YEAR)						
1	Survey and Demarcation	June	2	690	0	690
2	Fencing (i) For an average of 126 meters / ha. @ Rs. 76.19/- per meter for bamboo twigs and bamboo thorn fencing (L:M= 40:60)	June-Sept	19	6555	4280	10835
	(ii) To be strengthened by planting of bamboo and other seedlings in two rows. Bamboo to be planted at 2meters spacing in staggered manner on the two rows, and the rest of the species to be planted at 1/2 meter spacing along the two rows, the rows being 2m apart. thus 500 plant (125 bamboo and 375 others) to be planted in two rows to cover 126 m of periphery/ Ha by the vegetative fence (Bamboo seedlinge @ Rs. 12.43 per seedling x 125= Rs. 1553.75, Agave seedling @ Rs. 4.90 per seedling x 375 = Rs. 1837.5)	June-Sept	11	3795	3391.25	7186.25
3	Pitting (1600 per Ha.) each pit - 45cm ³	Nov-Dec	128	44160	0	44160
4	Soil and water conservation measures					
	(i) Staggered trench along the contour @ 300 per Ha. (2.5m x 0.5m x 0.5m); digging of percolation pits @ 600 per Ha. in lieu of staggered trenches, gully plugging and Drainage line treatment, half moon trench on the uphill side of each planting pit(100 MD for staggered trench/ percolation pits and 30MD for gully plugging, Drainage line treatment and half moon trenches)	Sep-Nov	130	44850	0	44850
	(ii) Site clearance -8MD, alignment and staking of contour lines on ground, planting pits, contour trenches/ percolation pits and check dam sites, etc. - 2MD	Jul-Aug	10	3450	0	3450
	(iii) (Raising of seedlings in poly bags minimum 60cm high) @ Rs. 12.43/- seedling (Rs. 67 in 0th year + Rs. 3.76) part (1760 saplings to the raised for one hectare)	Oct-Mar	44	15180	2939	18119
	Total 0th Year		344	118680	10610.25	129290.3
5	Monitoring and supervision charge 5% of the total cost					6464.513
	GRAND TOTAL		344	118680	10610.25	135754.8

SI No.	Item of Work	Preferable period of Execution	Manday	Labour cost	Material cost	Total cost
1	2	3	4	5	6	7
PLANTING OPERATION 1ST YEAR						
1	Cost of Sapling (balance) from April-June/ July @ Rs. 3.76 per seedling for 1760 seedlings	Apr-Jun	21.5	7417.5	593	8010.5
2	Freshening of pits-64MD, Filling with fertile soil and farmyard mixture (FYM)- 24MD, application of insecticide and planting of 60cm tall saplings including carriage and plants-21MD	Jun-Jul	109	37605	0	37605
3	Cost of fertile soil 0.25cft @ Rs.8 per cft/ FYM 0.25 cft @ Rs. 15 per cft per pit			0	9200	9200
4	Sowing of seeds on dug out earth of trench	June	6	2070	200	2270
5	Carriage-6MD, planting including Casualty replacement-6MD, fertilizer application - 5MD, 1st weeding -7MD, 2nd weeding -5MD, soil working- 7MD	Jul-Aug	36	12420	0	12420
6	Cost of fertilizer and insecticide (granular insecticide @ 5gms/ plant @ Rs. 80/-per kg = Rs. 640.00, NPK 100gms/plant in two doses @ Rs. 24 per kg= 3840		0	0	4480	4480
7	Repair and maintenance of bamboo fence including material cost	Aug-Oct	15	5175	2540	7715
8	Maintenance of soil and moisture conservation measures (20% of cost)	Oct-Dec	26	8970	0	8970
9	Closure to grazing fire and other biotic interference by engaging watch & ward	Apr-Mar	30	10350	0	10350
10	Fire tracing and control, display board construction, painting/ writing, other miscellaneous cost	Jan-Feb	10	3450	360	3810
	Total 1st Year		253.5	87457.5	17373	104830.5
11	Monitoring and supervision charge 5% of the total cost					5241.525
	GRAND TOTAL		253.5	87457.5	17373	110072


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SI No	Item of Work	Preferable period of Execution	Manday	Labour cost	Material cost	Total cost
1	2	3	4	5	6	7
MAINTENANCE OPERATION (2ND YEAR)						
1	Casualty replacement-6MD including seedling seedling cost@ Rs. 12.43 per seedling and its transportation	June-July	10	3450	1988.8	5438.8
2	Soil warking-7MD, 1st weeding-6MD, 2nd Weeding -6MD and fertilizer application-4MD	Aug-Oct	23	7935	0	7935
3	Cost of fertilizer @50gms NPK per plant @Rs.24/- per kg for 1600 plants= Rs. 1920.00 insecticide @ 5gm per plant for 160 nos. of plants @ Rs. 80 per kg= Rs. 64.00		0	0	1984	1984
4	Repair and maintenance of bamboo fence including material cost	Aug-Oct	15	5175	2540	7715
5	Maintenance of soil and moisture conservation measures (20% of cost)	Aug-Oct	26	8970	0	8970
6	Fire tracing and control and other miscellaneous cst	Feb-Mar	10	3450	0	3450
7	Closure to grazing fire and other biotic interfrnce by engaging watch & ward	Apr-Mar	30	10350	0	10350
	Total 2nd Year		114	39330	6513	45843
8	Monitoring and supervision charge 5% of the total cost					2292.15
	GRAND TOTAL		114	39330	6513	48135.15


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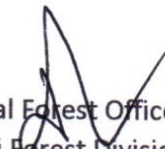
SI No.	Item of Work	Preferable period of Execution	Manday	Labour cost	Material cost	Total cost
1	2	3	4	5	6	7
MAINTENANCE OPERATION (3RD YEAR)						
1	Repair and maintenance of fence-15 MD/ (in case of barbed wire fencing Rs. 9000/- for repara).SMC measures (Renovation)-26 MD and maintenance of plantation-14 MD as per requirement	April-Mar	55	18975	500	19475
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-Mar	18	6210	0	6210
	TOTAL 3rd Year		73	25185	500	25685
3	Monitoring & Supervision charge 5% of the total cost					1284.25
	GRAND TOTAL		73	25185	500	26969.25


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Sl No.	Item of Work	Preferable period of Execution	Manday	Labour cost	Material cost	Total cost
1	2	3	4	5	6	7
	MAINTENANCE OPERATION (4TH YEAR)					
1	Repair and maintenance of fence-13 MD/ no maintenance in case of barbed wire fencing, SMC measure-21 MD and maintenance of plantation-14 MD	April-Mar	48	16560	500	17060
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-Mar	18	6210	0	6210
	TOTAL 4th Year		66	22770	500	23270
3	Monitoring & Supervision charge 5% of the total cost					1163.5
	GRAND TOTAL		66	22770	500	24433.5


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SI No.	Item of Work	Preferable period of Execution	Manday	Labour cost	Material cost	Total cost
1	2	3	4	5	6	7
MAINTENANCE OPERATION (5TH YEAR)						
1	Repair and maintenance of fence-13 MD/ no maintenance in case of barbed wire fencing, SMC measure-21 MD and maintenance of plantation-14 MD	April-Mar	48	16560	500	17060
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-Mar	18	6210	0	6210
	TOTAL 5th Year		66	22770	500	23270
3	Monitoring & Supervision charge 5% of the total cost					1163.5
	GRAND TOTAL		66	22770	500	24433.5


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Sl No.	Item of Work	Preferable period of Execution	Manday	Labour cost	Material cost	Total cost
1	2	3	4	5	6	7
	MAINTENANCE OPERATION (6TH YEAR)					
1	Repair and maintenance of fence-13 MD/ no maintenance in case of barbed wire fencing, SMC measure-21 MD and maintenance of plantation-14 MD	April-Mar	48	16560	500	17060
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-Mar	18	6210	0	6210
	TOTAL 6th Year		66	22770	500	23270
3	Monitoring & Supervision charge 5% of the total cost					1163.5
	GRAND TOTAL		66	22770	500	24433.5

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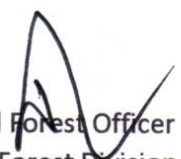
SI No.	Item of Work	Preferable period of Execution	Manday	Labour cost	Material cost	Total cost
1	2	3	4	5	6	7
MAINTENANCE OPERATION (7TH YEAR)						
1	Repair and maintenance of fence-13 MD/ no maintenance in case of barbed wire fencing, SMC measure-21 MD and maintenance of plantation-14 MD	April-Mar	48	16560	500	17060
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-Mar	18	6210	0	6210
	TOTAL 7th Year		66	22770	500	23270
3	Monitoring & Supervision charge 5% of the total cost					1163.5
	GRAND TOTAL		66	22770	500	24433.5

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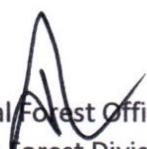
SI No.	Item of Work	Preferable period of Execution	Manday	Labour cost	Material cost	Total cost
1	2	3	4	5	6	7
	MAINTENANCE OPERATION (8TH YEAR)					
1	Repair and maintenance of fence-13 MD/ no maintenance in case of barbed wire fencing, SMC measure-21 MD and maintenance of plantation-14 MD	April-Mar	48	16560	500	17060
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-Mar	18	6210	0	6210
	TOTAL 8th Year		66	22770	500	23270
3	Monitoring & Supervision charge 5% of the total cost					1163.5
	GRAND TOTAL		66	22770	500	24433.5


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Sl No.	Item of Work	Preferable period of Execution	Manday	Labour cost	Material cost	Total cost
1	2	3	4	5	6	7
	MAINTENANCE OPERATION (9TH YEAR)					
1	Repair and maintenance of fence-13 MD/ no maintenance in case of barbed wire fencing, SMC measure-21 MD and maintenance of plantation-14 MD	April-Mar	48	16560	500	17060
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-Mar	18	6210	0	6210
	TOTAL 9th Year		66	22770	500	23270
3	Monitoring & Supervision charge 5% of the total cost					1163.5
	GRAND TOTAL		66	22770	500	24433.5


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SI No.	Item of Work	Preferable period of Execution	Manday	Labour cost	Material cost	Total cost
1	2	3	4	5	6	7
	MAINTENANCE OPERATION (10TH YEAR)					
1	Repair and maintenance of fence-13 MD/ no maintenance in case of barbed wire fencing, SMC measure-21 MD and maintenance of plantation-14 MD	April-Mar	48	16560	500	17060
2	Closure to grazing, fire and other biotic interference by engaging watch & ward	April-Mar	18	6210	0	6210
	TOTAL 10th Year		66	22770	500	23270
3	Monitoring & Supervision charge 5% of the total cost					1163.5
	GRAND TOTAL		66	22770	500	24433.5


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