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CHECK LIST SERIAL NUMBER :-6(i)

Details scheme for compensatory afforestation to be carried out in lieu of **Diversion of 0.0024 ha of forest land for approach access road to R.K Resort (Marriage Palace) Situated at village Khichian, On Mukerian to Gurdaspur Road L.H.S Tehsil Mukerian Distt. Hoshiarpur. Details of degraded forest land/non forest land**

Tehsil Mukerian

Block/ Compartment/Survey No. Haler Jananthan Forest

2. Description of Area :-

- ### 3. Plantation Model :-

Atul Kumar
Divisional Forest Officer
Dasuya Forest Division Dasuya
27/8/22

Division of 0.0024 ha of forest land for approach access road to R.K Resort (Marriage Palace) Situated at village Khichian, On Mukerian to Gurdaspur Road L.H.S Tehsil Mukerian Distt. Hoshiarpur.
Proposal No. FP/PB/Approach/146174/ 2021

4. (a) Schedule of Plantation Programme for Degraded Scheme:-
Details of year-wise break up of requirements of funds is as under :-

Plantation with Current Year Mtc.	0.100	255324.38	25532.44
1st Year Maintenance	0.100	106169.92	10616.99
2nd Year Maintenance	0.100	90996.8	9099.68
III rd Year Maintenance	0.100	69056.43	6905.64
IV th Year Maintenance	0.100	997.36	99.74
V th Year Maintenance	0.100	997.36	99.74
VI th Year Maintenance	0.100	997.36	99.74
VII th Year Maintenance	0.100	997.36	99.74
VIII th Year Maintenance	0.100	997.38	99.74
IX th Year Maintenance	0.100	997.38	99.74
X th Year Maintenance	0.100	997.38	99.74
Comp. Scheme for 1.00 Ha.		528529.11	52852.91

Schedule of Plantation Programme for Penal CA			
Plantation with Current Year	0.0048	255324.38	1225.56
Mtc.			
1st Year Maintenance	0.0048	106169.92	509.62
2nd Year Maintenance	0.0048	90996.8	436.78
III rd Year Maintenance	0.0048	69056.43	331.47
IV th Year Maintenance	0.0048	997.36	4.79
V th Year Maintenance	0.0048	997.36	4.79
VI th Year Maintenance	0.0048	997.36	4.79
VII th Year Maintenance	0.0048	997.36	4.79
VIII th Year Maintenance	0.0048	997.38	4.79
IX th Year Maintenance	0.0048	997.38	4.79
X th Year Maintenance	0.0048	997.38	4.79
Comp. Scheme for 1.00 Ha.		528529.11	2536.94

Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Details
- Spacing 4 x 4
- Species : Shisham, Drek, Arjun Etc.
- Plantation Method
- Soil and Moisture Conservation Works.
- Protection (Fencing Watch man, People's Participation etc.)
- Proposed Monitoring Mechanism.

Atal Kumar
Districtal Forest Officer
8/2/2022 Division Casanya

ESTIMATED COST FOR COMPENSATORY AFFORSTATION MODEL IN SHIWALIKS

1) Diverted Forest Area = 0.0024		Daily Wage Rate @ 383.56			
2) p.p. Aff. Scheme area =0.100 + Penal CA 0.0048 ha Total = 0.1048 ha		Plants/Ha :1000			
3) Name of Site of Plantation : Haler Janardhan Forest					
4) No. of plants Planted =100 plants					
5. Name of species to be planted : Shisham, Arjun, Dreka etc.					
Sr. No.	Nature of Work Component	Unit	Unit Cost	Quantity	Amount
A. Nursery					
1	Cost of seedling including development of Nursery (a) Original planting=1000 per ha. (b) Replacement 10%= 100 per ha Total 1100 No. in P. bag	No	40.00	1100	44000
B. Soil/Adv Works.					
2	Cutting of Lantana Malha	Ha.	20921.36	0.60	12552.81
3	Lantana stubbing	Ha.	31381.49	0.20	6276.30
4	Uprooting of old stumps & Disposal	100 No.	76.70	100.00	76.70
5	Preparation of inspection path in Boundary Soil 100 Mtr x .10 Mtr x 1Mtr= 10 M3	M3	153.42	10.00	1534.20
6	Survey And Alignment	Ha	1533.97	1	1533.97
7	(a)Earth work i.e. digging of trenches Boundary Soil Size 700No. x 2 Mtr. x .40 Mtr x .35 Mtr =196 m3	M3	188.29	196	36905
	(b) Earth work i.e. digging of pits 300No. X .50 Mtr x .5 Mtr x .4 Mtr = 15 M3	M3	188.29	30	5649
C. Plantation					
8	(a)Refilling of trenches 700 No x .0.50 Mtr x .40 Mtr x .30 Mtr = 42 m3	M3	30.97	42.00	1300.74
9	(b)Refilling of pits 300 no. x .50 x.50 x.35 = 26M3	M3	30.97	26.00	805.22
	Carriage of seedlings by Tractor-Trolley	No	5.75	1000	5750.00
10	Carriage of seedlings by M/L lead 500mt.	Mtr	11.58	1000	11580.00
11	Loading & unloading of plants	100 No	46.37	1000	463.70
12	Planting of seedlings	No	4.88	1000	4880.00
15	Application of Insecticides 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
16	Application of fertilizers 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
17	Planting of Bhabbar Grass including extraction and carriage of Tussocks	100 No.	12.10	2000	242.00
18	Preparation of round Brush wood fencing including cutting carriage material (with binding)	No	28.76	1000	28760.00
D. Maintenance of Planting Year					
19	Repair i.e. cleaning and dressing of inspection path	M3	153.42	10	1534.20
20	Watch and ward for every 10 ha. Of plantation x 26 days	No.	38.36	52	1994.72
21	Re-Cutting of lantana/mallaha 2nd and 3rd times. 1.00 x 2= 2	Ha	6961.00	2.00	13922.00
22	Weeding hoeing i.e. 2000mtr x 3 = 6000 mtr	Mtr	2.38	6000	14280.00
23	Application of Insecticides 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
24	Application of fertilizers (twice) 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
25	Desilting of Franches 1000 No x 1.50 x .35 x .25 = 131.25	Mtr	69.73	131.25	9152.06
26	Carriage of seedlings by Tractor-Trolley	No	5.74	100	574.00
27	Carriage of seedlings by M/L lead 500mt.	Mtr	11.58	100	1158.00
28	Loading & unloading of plants	100 No	76.37	100	76.37
29	Cutting of Tall Weeds 2 mtr wide (100 x 2)	100 mtr	95.87	200	191.74
30	Providing thorny protection to plants against parcupine damage	100 No	191.70	400	766.80
31	Re-Planting of seedlings	No	4.88	100	488.00
32	Covering (25% Plants)	No.	3.41	250	852.50
33	Uncovering	No.	0.36	250	90.00
D. Material					47760.39

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34	Insecticides including carriage	litre	452.35	16	452.35
35	Fertilizers i.e. urea etc. including carriage	kg	61.70	200	12340.00
36	Misc. Items (tools, etc)	L/S			7500
Total Cost of Planting Year					
Contingency 10%					
Total Cost of Planting Year					
1st Year Maintenance					
1	Re-opening of trenches for replacement 210 x .50 m x .40 x .40m = 16.80 m ³	M3	63.29	16.80	1063.23
2	Refilling of trenches 210 No. x 0.50m x 0.40m x 0.35m = 14.70 m ³	M3	39.81	14.70	585.25
3	Reopening of Pits 90 x.50 x .50 x .35 = 7.88 M3	M3	63.29	7.88	498.73
4	Refilling of Pits 90 x.50 x .50 x .35 = 7.88 M3	M3	39.81	7.88	313.70
5	Nursery cost of seedling	No	59.67	300	17901.00
6	Carriage of seedlings by Tractor-Trolley	No	5.75	300	1725.00
7	Carriage of seedlings by M/L labour lead 500mt.	100 Mtr	11.58	300	34.74
8	Loading & unloading of plants	100 No	46.37	300	139.11
9	Re- Planting of seedlings	No	4.88	300	1464.00
10	Weeding and hoeing to trenches (1 twice)	Mtr	2.38	2000	4760.00
11	Application of insecticides (1 twice)	100 No	67.00	2000	1340.00
12	Application of fertilizers (twice)	100 No	67.00	2000	1340.00
13	Repair of inspection path (1 twice)	Mtr	153.42	200	30684
14	Cutting of lantana/mallab etc. per ha II & III times	Ha	6961.00	2.00	13922.00
15	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
16	Covering (25% Plants)	No.	3.41	250	852.50
17	Uncovering	No.	0.36	250	90.00
					77710.61
Cost of material					
17	Insecticides including carriage	litre	452.35	10	4523.50
18	Fertilizers i.e. urea etc. including carriage	kg	33.92	200	6784.00
19	Misc. Items (tools, etc)	L/S			2500
	POL	L/S			5000
					18807.50
	Total				96518.11
	Contingency 10%				9651.81
					106169.92
Total Cost of 1st Year Mtc					
2nd Year Maintenance					
1	Reopening of trenches for replacement 200 no x .50 m x .35M x .25m = 8.75 m ³	M3	63.29	8.75	553.79
2	Refilling of trenches 200 No. x 0.50m x 0.35m x 0.24m = 8.75 m ³	M3	39.81	8.75	348.34
3	Nursery cost of seedling	No	59.67	200	11934.00
4	Carriage of seedlings in P hags I) M/L Average Lead 1.5 km	No	11.58	200	2316.00
5	ii) Tractor trolley average lead 15 km (1000 plants per trolley)	No	5.75	200	1150.00
6	Loading & unloading of plants from T/Trolley	100 No	46.37	200	92.74
7	Re-Planting of seedlings	No	4.88	200	976
8	Weeding and hoeing to trenches (1 twice)	Mtr.	2.38	2000	4760.00
9	Application of insecticides (1 twice)	100 No	67.00	2000	1340.00
10	Application of fertilizers (1 twice)	100 No	67.00	2000	1340.00
11	Repair of inspection path (1 twice)	M3	153.42	200	30684.00
12	Lantana cutting (subsequent time 1.00 Ha) x 2 times =2.00	Ha	6961.00	2.00	13922.00
	Total				69416.87
Cost of material					
14	Insecticide	Kg	452.35	10.00	4523.50
15	Fertilizers i.e. urea etc.	Kg	33.92	200.00	6784.00
	POL	L/S			2000.00
					13307.50
	Total				82724.37
	Total				8272.44
	Contingency 10%				90996.80
	Total Cost of 2nd Year Mtc				
	3rd Year Maintenance				

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1	Reopening of trenches for replacement 100 no .50m x .35 m x .25m = 4.38 M3	M3	63.29	4.38	277.21
2	Refilling of trenches 100 No. x 0.50m x 0.35m x 0.25m = 4.38 M3	M3	39.81	4.38	174.37
3	Nursery cost of seedling	No	59.67	100	5967.00
4	Carriage of seedlings by manual labour lead 500mt.	100 Mtr.	11.58	100	1158.00
5	Loading & unloading of plants from T/ Trolley	100 No	46.37	100	4637
6	ii) Tractor trolley average lead 15 km (1000 plants per trolley)	No	5.75	100	575.00
7	Re-Planting of seedlings	No	4.88	100	488.00
8	Repair of Barbed Wire fence in hills	100 Mtr	122.52	3900	4778
9	Weeding and hoeing to trenches (Twice)	Mtr.	2.38	2000	4760.00
10	Cutting of lantana/mallaha 11nd and 11lrd times.	Ha	6961.00	1.40	9745.40
11	Application of fertilizers	100 No	67.00	1000	6700.00
12	Repair of inspection path (Twice)	Mtr	153.42	200	30684.00
13	Pruning of plants	No.	10.00	125	1250.00
14	Jungle Clearance i.e. Bhang, Jhuu tall weed etc.	No.	6276.10	0.2	1255.22
	Total				61828.81
	Cost of material				
15	Fertilizers i.e. urea etc.	Kg	33.92	28.00	949.76
	Total				949.76
	Total Cost of 3rd maintenance				62778.57
	Contingency 10%				6277.86
	SubTotal Cost of 3rd year maintenance				69056.43
	4th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	5th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	6th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	7th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	8th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	9th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	10th Year Maintenance				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				997.36
	ABSTRACT				
1	Total Cost On Plantation Works				255324.38
2	Total Cost of 1st year Maintenance				106169.92
3	Total Cost of 2nd year Maintenance				90996.80
4	Total Cost of 3rd year Maintenance				69056.43
5	Total Cost of 4th year Maintenance				997.36
6	Total Cost of 5th year Maintenance				997.36
7	Total Cost of 6th year Maintenance				997.36
8	Total Cost of 7th year Maintenance				997.36
9	Total Cost of 8th year Maintenance				997.36
10	Total Cost of 9th year Maintenance				997.36
11	Total Cost of 10th year Maintenance				997.36
	G. Total				528529.06
	Comp. Aff. Scheme for 1.00 Ha.			Or Say	528529.00
	Scheme Details				


 Mr. Anurag
 District Forest Officer
 District Forest Office
 Dehra Dun

27/3/22
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Compensatory afforestation scheme 0.100 ha	Rs	0.100	528529.00	52852.90
Cost of per Ha. For 7-10 Year 2 Times Penal CA violated area. ha 0.0024 (0.0024 X 2 =0.0048)	Rs	0.0048	528529.00	2536.94
Total of CA and 10 Time Penal CA area is	RS	0.1048		55389.84
Net Present Value	H.a.	0.0024	1357110.00	3257.1
2 time Penal NPV amount	ha	0.0048	1357110.00	6514.1
Simple Interest 12% on 2 times Penal NPV amount for 1 year (6514.10 X 12% X 1 year)				781.7
Total of NPV & Penal NPV			G. Total	10552.9
				65942.72

Atul Kumar

Atul Kumar
Divisional Forest Officer,

Dasuya

Divisional Forest Officer,

Dasuya
27/5/22