ESTIMATED COST FOR DEGRADED IN SHIWALIKS

Diversion of 0.8053 ha (instead of 0.57 ha) of forest for Development of Malwa Stone Crusher (M/s Malwa Concrete Plant) at village Dhulal H.B No 609 Khasra No 19, 20 which is a Delisted area of Section 4 of PLPA 1900 Tehsil Mukerian Distt. Hoshiarpur Under Dasuya Forest Division. User Agency:- Sh Gurdev Singh S/o Sh Karnail Singh

1) Diverted Forest Area = 0.8053 ha

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1) Diverted Forest Area = 0.8053 ha	Daily Wage Rate @ 342
2) Comp. Aff. Schme area = 2.0132 + 2 times Penal CA = 0.53 Total 2.5432 ha	Plants/Ha :1000
3) Name of Site of Plantation : Sarinpur Forest	

r. No.	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
	A. Nursury				THE SHE
1	Cost of seedling (upto tall plants) including (a) Original planting=1100 per ha. (b) Replacement 10%= 100 per ha Total 1100 No. in P. bag	No	75.00	1100	82500
2	B. Soil /Adv Works.				
2	Lantana stubbing	Ha.	27981.10	0.60	16788.66
4	Survey and alignment	Ha.	1368.00	1.00	1368.00
	Earth work i.e. digging of Pits of Bouldry Soil size 1000 No. x .50 Mtr. x .50 Mtr x .40 Mtr	M3	149.23	100	14923.00
-	C. Disstation	Also I Vice			115580
5	C. Plantation.				
	Refilling of pits 1000 No x .0.50 Mtr x .50 Mtr x .30 Mtr =75 m3	M3	27.62	75.00	2071.50
6	Carriage of seedlings (Tall Plants) by Tractor- Trolly	No	10.83	1000	10830
7	Carriage of seedlings (Tall Plants) by M/L lead 500mt.	Mtr	9.60	1000	9600
8	Loading & unloading of plants (Tall Plants)	100 No	85.46	1000	854.60
9	Planting of seedlings (Tall Plants)	No	10.26	1000	10260
10	Fixing of cement concrete fence post including digging of pits 1/2 Mtr deep.	100 No.	1026.00	130	1334
11	Layout and Fixing of barwed wire per stand	100 Mtr	171.00	1950	3335
12	Application of Insecticides 1000 x 2 times = 1000	100 No	59.83	2000	1196.60
13	Application of fertilizers 1000 x 2 times = 1000	100 No	59.83	2000	1196.60
14	Prepration of inspection path in Bouldry Soil 50 Mtr x .10 Mtr x 1Mtr= 5 M3	M3	149.23	5	746.15
	D. Marco Direction Marco				41423.75
45	D. Mtc on Planting Year				
15	Repair i.e. cleaning and dressing of inspection path		149.23	5	746.15
16	Watch and ward for every 10 ha. Of plantation x 2.6 days		342	26	8892.00
17	Cutting of lantana/mallaha 2nd and 3rd times. 0.50 x 2= 1		17890.00	1.00	17890.00
18	Weeding hoeing i.e. 1000m x 3 = 3000 m	No.	3.00	3000	9000
19	Application of Insecticides 1000 x 2 times = 2000	100 No		2000	1196.60
20	Application of fertilizers 100 x 2 times = 2000	100 No	59.83	2000	1196.60
21	Re-Opening of pits 100 No x .0.50 Mtr x .50 Mtr x .30 Mtrm = 2.18 m3		56.43	7.5	423.23
22	Carriage of seedlings (Tall Plants) by Tractor- Trolly		10.83	1000	10830
23	Carriage of seedlings (Tall Plants) by M/L lead 500mt.	Mtr	9.60	100	960

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4	Loading & unloading of plants (Tal Plants)	100 No	85.46	100	85.46
5	Re -Planting of seedlings (Tall Plants)	No	10.26	100	1026
6	Covering (25% Plants)	No.	3.05	250	762.50
7	Uncovering	No.	0.33	250	82.50
-		110.	0.00		53091
	E. Material				and a start
8	Insecticides including carriage	litza	452.35	10	4523.50
		litre		200	6784.00
9	Fertilizers i.e. urea etc. including carriage	kg	33.92	200	5000
0	Misc. Items (tools, etc)	L/S		400	45500
1	Fence Post (Concrete)	No.	350.00	130	
32	Barwed Wire	kg	85.00	325	27625
			and the second		89433
	Total Cost of Planting		1 particular		299527
	Countigency 10%	6	the second second		29953
	Total Cost of Planting	y Year			329480
	1st year Maintenance (La	abour rat	e Rs. 366/-)		
1	Re-opening of pits for replacement 250 no x .50m x .50m x .30m = 18.75 m3	M3	60.39	18.75	1132.31
2	Refilling of pits 250 No. x 0.50m x 0.50m x 0.30m = 18.75 m3	M3	37.99	18.75	712.34
2		No	107.02	250	26754.39
3	Nursery cost of seedling (Tall Plants) Carriage of seedlings (Tall Plants) by Tractor-	No	11.59	250	2897.50
4	Trolly		and the second		
5	Carriage of seedlings (Tall Plants) by M/L labour lead 500mt.	100 Mtr	10.27	250	2568.42
6	Loading & unloading of plants (Tall Plants)	100 No	91.46	250	228.64
7	Re- Planting of seedlings (Tall Plants)	No	10.98	250	2745.00
8	Repair of Barwed Wire fence in hills	100 Mtr	109.16	1950	2129
9	Weeding and hoeing to trenches (Twice)	Mtr	2.28	4000	9117.89
10	Application of insecticides (Twice)	100 No	64.03	2000	1280.57
11	Application of fertilizers (twice)	100 No	64.03	2000	1280.57
12	Repair of inspection path (Twice)	Mtr	159.70	100	15970.22807
13	Cutting of lantana/mallah etc. per ha II & III times	На	6654.09	1.00	6654.09
14	Watch and ward for every 10 ha. Of plantation	No	366.00	26.00	9516
15	Covering (25% Plants)	No.	3.264035	250	816.01
		No.	0.353158	250	88.29
16	Uncovering		0.000100	200	83890.84
	2 st st material	Contraile		1	03030.04
-	Cost of material	litre	452.35	10	4500.50
17	Insecticides including carriage Fertilizers i.e. urea etc. including carriage	kg	33.92	200	4523.50 6784.00
18	Fertilizers I.e. urea etc. including carriage	L/S	00.02	200	5000
19	Misc. Items (tools, etc)				the same of the sa
	Total				16307.50
	Countigency 10	%			100198.34
100	Total Cost of 1st Ye				10019.83
1			ur Data Da	202/	110218.17
1	2nd Year Maintenan Reopening of pits for replacement 150 no x .50 m	M3	64.68	11.25	727.65
	x .50 m x .30m = 11.25 m3	14 Julia	40.69	11.25	457.75
2	= 11.25 m3	No	114.62	150	
3	Tall Plants) in P Dads II	No	11.00	150	17193.38
4	hall Average Load 15 km	1.1.1			1649.93
5	4-11-2	100 100	12.41	150	1862.00
6	Loading & unloading of plants (Tall Plants) from	-	97.96	150	146.94
			44 70		
7	(Tall Plants)	No 100 Mtr	11.76 116.91	150	1764

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7	Weeding and hoeing to tranches (Twice)	T MALE	2.44	4000	9767.87	
10	Application of insecticides (Twice)	Mtr.	and the subscription of th	2000	1371.57	
11	Application of fertilizers (Twice)	100 No	Statement and in the second second second	2000	1371.57	
12	Repair of inspection path (Twice)	100 No	the subscription of the su		17104.48	
13	I aptane outting (autoanting (wice)	M3	171.04	100	6413.84	
15	Lantana cutting (subsequent time 0.50 Ha) x 2 times = 1.00	Ha	6413.84	1.00	0413.04	
	Total				62110.81	
	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	
	Total	1.9			11307.50	
	Total	L	1	1	73418.31	
	Contigency 10%					
	Total Cost of 2nd Ye				7341.83 80760.14	
-	3rd Year Maintenan		Ir Pato Re	19/-)		
1	Reopening of pits for replacement 100 no x 0.50		69.14	7.50	518.51	
	x .50 m x .30m	IVIS	09.14	7.50		
2	Refilling of trenches 100 No. x 0.50m x 0.50m x	M3	43.49	7.50	326.19	
3	0.30m Nursery cost of seedling (Tall Plants)	No	122.51	100	12251.47	
4	Carriage of seedlings (Tall Plants) by mannual	100 Mtr.	122.51	100	1175.77	
	labour lead 500mt.					
5	Loading & unloading of plants (Tall Plants) from T/ Trolly	100 No	104.71	100	104.71	
6	ii) Tractor trolly average (Tall Plants) lead 15 km	No	13.26	100	1326.48	
	(1000 plants per trolly)		Sen Spice	1.		
7	Re-Planting of seedlings (Tall Plants)	No	12.57	100	1257.00	
8	Repair of Barwed Wire fence in hills	100 Mtr	124.96	1950	2437	
9	Weeding and hoeing to tranches (Twice)	Mtr.	2.61	4000	10432.24	
10	Cutting of lantana/mallaha IInd and IIIrd times.	На	7617.66	0.70	5332.36	
11	Application of fertilizers	100 No	73.30	1000	733.04	
12	Repair of inspection path (Twice)	Mtr	182.82	100	18282.08	
13	Pruning of plants	No.	3.33	150	500.23	
14	Jungle Clearance i.e. Bhang, Jhau tall weed etc.	No.	6856.07	0.2	1371.21	
in the	Total				56048.07	
	Cost of material				50040.07	
15	Fertilizers i.e. urea etc.	Kg	33.92	56.00	1899.52	
10	Total		00.02	00.00	1899.52	
	Total Cost of 3nd maintenance					
•	Contigency 10%					
	SubTotal Cost of 3rd year m		ce		5794.76 63742.35	
	4th Year Maintenance (Labour rate Rs. 448/-)					
1	Watch and ward for every 10 ha. Of plantation	No	448.00	26.00	11648	
	Total				11648.00	
40,400	5th Year Maintenance			/-)		
1	Watch and ward for every 10 ha. Of plantation	No	479.00	26.00	12454	
	Total					
	6th Year Maintenance		rate Rs. 513	(-)	12454.00	
1	Watch and ward for every 10 ha. Of plantation	No	513.00	26.00	13338	
1.12	Total					
	7th Year Maintenance (Labour rate Rs. 549/-)					
1	Watch and ward for every 10 ha. Of plantation	No	549.00	26.00	14274	
W.	A Total				14274.00	
	8th Year Maintenance (Labour rate Rs. 587/-)					

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9 Total Cost of 8tt 10 Total Cost of 9tt 11 Total Cost of 10t G. G. Comp. Aff. Sc Compensatory afforestationscheme 0.805 2.5= 2.0132 Entry Point activity 10 % (Development v village under concern JFMC/VFC) Village under concern JFMC/VFC) Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (concern)) Total of 2.013 ha + 2 Time Penal CA area 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV amount NPV am	tation No	587.00	26.00	15262		
Total 1 Watch and ward for every 10 ha. Of plan 1 Total 1 Total Cost of plan 1 Total Cost of name 2 Total Cost of name 3 Total Cost of name 5 Total Cost of name 6 Total Cost of factors of name 7 Total Cost of factors of f						
Total 1 Watch and ward for every 10 ha. Of plan 1 Total 1 Total Cost of plan 1 Total Cost of 1s 3 Total Cost of 1s 3 Total Cost of 1s 5 Total Cost of 4t 6 Total Cost of 5t 7 Total Cost of 9t 11 Total Cost of 9t 12 Entry Point activity 10 % (Development village under concern JFMC/VFC) 2 Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (2000 plants)) 2 Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha Net Present Value 626000 x 0.8053 ha Net Present Value 626000 x 0.8053 ha				15262.00		
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Total 1 Total Cost of n 2 Total Cost of 1s 3 Total Cost of 2n 4 Total Cost of 3n 5 Total Cost of 4t 6 Total Cost of 5t 7 Total Cost of 5t 7 Total Cost of 5t 9 Total Cost of 7tt 9 Total Cost of 9tt 11 Total Cost of 9tt 12 Entry Point activity 10 % (Development village under concern JFMC/VFC) 2 Cost of per Ha. For 7-10 Year 2 Times Pee violated area 0.53 ha. (0.265 X 2 = 0.53 (plants)) Total of 2.013 ha + 2 Time Penal CA are 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV am				16328.00		
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2Total Cost of 1s3Total Cost of 1s4Total Cost of 2n4Total Cost of 3n5Total Cost of 4t6Total Cost of 5t7Total Cost of 5t7Total Cost of 6t8Total Cost of 7t9Total Cost of 9t10Total Cost of 9t11Total Cost of 9t11Total Cost of 10tG.G.Compensatory afforestationscheme 0.8052.5= 2.0132Entry Point activity 10 % (Development v village under concern JFMC/VFC)Cost of per Ha. For 7-10 Year 2 Times Pe violated area 0.53 ha. (0.265 X 2 = 0.53 (2000 x 0.8053 ha)Net Present Value 626000 x 0.8053 ha2 time Penal NPV amount (50417.8 x 2 =1008236Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	Contraction of the second			47470.00		
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4Total Cost of 3r5Total Cost of 4tt6Total Cost of 5tt7Total Cost of 5tt7Total Cost of 6tt8Total Cost of 7tt9Total Cost of 8tt10Total Cost of 9tt11Total Cost of 10t6.G.Compensatory afforestationscheme 0.805.2.5= 2.0132Entry Point activity 10 % (Development v village under concern JFMC/VFC)Cost of per Ha. For 7-10 Year 2 Times Per violated area 0.53 ha. (0.265 X 2 = 0.53 (plants))Total of 2.013 ha + 2 Time Penal CA are 0.53 haNet Present Value 626000 x 0.8053 ha2 time Penal NPV amount (50417.8 x 2 = 1008236Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	d vear Mainten	ance		110218.17		
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o Total Cost of 5tt 7 Total Cost of 6tt 8 Total Cost of 7tt 9 Total Cost of 8tt 10 Total Cost of 9tt 11 Total Cost of 9tt 11 Total Cost of 10t G. G. Comp. Aff. Sci Compensatory afforestationscheme 0.805 2.5= 2.0132 Entry Point activity 10 % (Development village under concern JFMC/VFC) Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (concern)) Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (concern)) Total of 2.013 ha + 2 Time Penal CA area 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	Vear Mainten			63742.35		
7Total Cost of 6tt8Total Cost of 7tt9Total Cost of 8tt10Total Cost of 9tt11Total Cost of 9tt11Total Cost of 10tG.G.Compensatory afforestationscheme 0.805 $2.5=2.0132$ Entry Point activity 10 % (Development v village under concern JFMC/VFC)Cost of per Ha. For 7-10 Year 2 Times Per violated area 0.53 ha. (0.265 X 2 = 0.53 (2000 x 0.8053 ha)Total of 2.013 ha + 2 Time Penal CA are 0.53 haNet Present Value 626000 x 0.8053 ha2 time Penal NPV amount (50417.8 x 2 = 1008236Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	Vear Mainten			11648.00		
8 Total Cost of 7tt 9 Total Cost of 8tf 10 Total Cost of 9tf 11 Total Cost of 9tf 11 Total Cost of 10t G. G. Compensatory afforestationscheme 0.805 2.5= 2.0132 Entry Point activity 10 % (Development v village under concern JFMC/VFC) Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (Development v) Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (Development v) Total of 2.013 ha + 2 Time Penal CA area 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	vear Maintena	ance		12454.00		
9 Total Cost of 8tt 10 Total Cost of 9tt 11 Total Cost of 10t G. Comp. Aff. Sc Compensatory afforestationscheme 0.805 2.5= 2.0132 Entry Point activity 10 % (Development v Village under concern JFMC/VFC) Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (Development v) Total of 2.013 ha + 2 Time Penal CA area 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	voar Maintena	ince		13338.00 14274.00		
10 Total Cost of 9th 11 Total Cost of 9th 11 Total Cost of 9th G. G. Comp. Aff. Sc Comp. Aff. Sc Compensatory afforestationscheme 0.805 2.5= 2.0132 Entry Point activity 10 % (Development v village under concern JFMC/VFC) Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (2000 plants)) Total of 2.013 ha + 2 Time Penal CA area 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236) Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	Total Cost of 7th year Maintenance Total Cost of 8th year Maintenance					
11 Total Cost of 10t G. G. Comp. Aff. Sc Comp. Aff. Sc Compensatory afforestationscheme 0.805 2.5= 2.0132 Entry Point activity 10 % (Development v village under concern JFMC/VFC) Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (n) Total of 2.013 ha + 2 Time Penal CA area 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	year Maintena	ince		15262.00		
G.Comp. Aff. ScCompensatory afforestationscheme 0.805.2.5= 2.0132Entry Point activity 10 % (Development v village under concern JFMC/VFC)Cost of per Ha. For 7-10 Year 2 Times Per violated area 0.53 ha. (0.265 X 2 = 0.53 (2 plants)Total of 2.013 ha + 2 Time Penal CA are 0.53 haNet Present Value 626000 x 0.8053 ha2 time Penal NPV amount (50417.8 x 2 = 1008236Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	year Maintena	ince		16328.00 17472.00		
Comp. Aff. ScCompensatory afforestationscheme 0.8052.5= 2.0132Entry Point activity 10 % (Development v village under concern JFMC/VFC)Cost of per Ha. For 7-10 Year 2 Times Per violated area 0.53 ha. (0.265 X 2 = 0.53 (2 plants)Total of 2.013 ha + 2 Time Penal CA are 	Total Cost of 10th year Maintenance G.Total					
Compensatory afforestationscheme 0.805 2.5= 2.0132 Entry Point activity 10 % (Development v village under concern JFMC/VFC) Cost of per Ha. For 7-10 Year 2 Times Per violated area 0.53 ha. (0.265 X 2 = 0.53 (1) plants) Total of 2.013 ha + 2 Time Penal CA are 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea				684976.30		
 2.5= 2.0132 Entry Point activity 10 % (Development willage under concern JFMC/VFC) Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (plants)) Total of 2.013 ha + 2 Time Penal CA are 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236) Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea 			-	684976.00		
 village under concern JFMC/VFC) Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (plants)) Total of 2.013 ha + 2 Time Penal CA are 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236) Simple Interest 12% on 2 Penal NPV are 12% X 1 Yea 	3 ha X Ha.	2.0132	684976	1378993.68		
Cost of per Ha. For 7-10 Year 2 Times Perviolated area 0.53 ha. (0.265 X 2 = 0.53 (2) plants) Total of 2.013 ha + 2 Time Penal CA are 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	orks of	1 1 20	They are	137899.37		
violated area 0.53 ha. (0.265 X 2 = 0.53 (plants) Total of 2.013 ha + 2 Time Penal CA are 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV amount 12% X 1 Yea		1	Total	1516893.05		
violated area 0.53 ha. (0.265 X 2 = 0.53 (plants) Total of 2.013 ha + 2 Time Penal CA are 0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	nal CA Ha.	0.53	684976	363037.28		
0.53 ha Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea		0.55	084570	505057.28		
Net Present Value 626000 x 0.8053 ha 2 time Penal NPV amount (50417.8 x 2 = 1008236 Simple Interest 12% on 2 Penal NPV am 12% X 1 Yea	a is Ha.	2.5432		1879930.33		
1008236 Simple Interest 12% on 2 Penal NPV an 12% X 1 Yea	Ha.	0.8053	626000	504117.8		
Simple Interest 12% on 2 Penal NPV an 12% X 1 Yea				1008236.0		
Total NPV+ Penal NPV including 12% int	Simple Interest 12% on 2 Penal NPV amount for 1 year (1008236 X 12% X 1 Year)					
	erest			1633336.80		
	Grand Total			3513267.13		
	Or Say			3513267.00		

Note:- Labour Rate increased average 7% every year

Aropivisional Forest Officer, Divisional Forest Officer Dasuya Forest Division Dasuya 27/12/21

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