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CHECK LIST SERIAL NUMBER: 6 (i) & (v)

Detailed scheme for Compensatory Afforestation for 100 Plants to be carried out in lieu of 0.0060 Ha., of forest area to be diverted for **Diversion area of 0.0060 ha of forest land for approach access road to MS/HSD Retail Outlet HPCL (Jalandhar Retail Regional Office) at Village Purhiran on Hoshiarpur road to Phagwara Road. WML, KM 4-5 (LHS) Tehsil and Distt Hoshiarpur Punjab under Forest Division Hoshiarpur.**

- Divisional Forest Officer
Hoshiarpur Forest Division
Hoshiarpur

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Schedule of plantation of Programme:-**Detail of year wise breaking of requirement of funds is as under:-**

Year	Area (in Ha.)	Rate/Ha.	Total Amount
Plantation with Current Year Mtc.	0.100	218050.41	21805.04
1st Year Maintenance	0.100	85418.18	8541.82
2nd Year Maintenance	0.100	53652.74	5365.27
III rd Year Maintenance	0.100	49913.82	4991.38
IV th Year Maintenance	0.100	46267.62	4626.76
V th Year Maintenance	0.100	6980.79	698.08
VI th Year Maintenance	0.100	6980.79	5252.00
VII th Year Maintenance	0.100	6980.79	698.08
VIII th Year Maintenance	0.100	6980.79	698.08
IX th Year Maintenance	0.100	6980.79	698.08
X th Year Maintenance	0.100	6980.79	698.08
Total	0.100	495187.53	49518.75
Over Head expenses 5%	0.100	24759.38	2475.94
Wage Enhancement @ 10%	0.100	49518.75	4951.88
G. Total	0.100	569465.66	56946.57
Or Say	0.100	569466.00	56947

3. Technical details:-

Technical Details of Compensatory Afforestation Scheme Are As Follows:-

- General Details:-
- Spacing:- 0.5m x 0.5m x 0.4m
- Species:- Khair, Shisham, Amla, Bamboo etc.
- Plantation Method:- Pits Method
- Soil And Moisture Conservation Works:-
- Protection (Fencing, Watch Man, People's Participation Etc.)
- Proposed Monitoring Mechanism:- as per guidelines issued by PCCF.
- Any Other Information: Nil

Date:

Place : Hoshiarpur


 Divisional Forest Officer
 Hoshiarpur Forest Division
 Hoshiarpur 17/4/2022

Plantation Model For Standard Plantation of CA Scheme for FP/PB/Approach/152743/2022- Diversion area of 0.0060 ha of forest land for approach access road to MS/HSD Retail Outlet HPCL (Jalandhar Retail Regional Office) at Village Purhira on Hoshiarpur road to Phagwara Road, WML, KM 4-5 (LHS) Tehsil and Distt Hoshiarpur Punjab under Forest Division Hoshiarpur

- 1 Diverted Area = 0.0060 Ha.
- 2 Site of Compensatory Aff. = Chak Sadhu, PF H.B. No. 503
- 3 100 Plants CA :- 0.100 Ha
- 4 No. of Plants to be planted = 100

Daily Wage Base Rate @ 328 Current Revised rate @ 383.56

Plantation Model For Standard Plantation under Compensatory Afforestation

Plants Per Hectare : 1000 Nos.

Sr. No.	Name of Work	Unit	Qty.	Unit Cost (in Rs.)	Amount
	Nursery				
	Nursery cost of raising plants	1100	1100	23.39	25726.59
A	Soil Work				
1	Site / Jungle Clearance (25%)	Ha.	0.5	6276.37	3138.19
2	Alignment & Dagbaling	Ha.	1	1150.68	1150.68
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m	1 M3	100	118.55	11855.28
5	Kana Stubbing 25%	Ha.	0.25	31381.76	7845.44
B	Plantation Work				
1	Refilling of Pits 1000x0.5mx0.5mx0.3	100 cum	75	3212.32	2409.24
	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No.	1100	643.16	7074.81
3	Carriage of Plants (1000+10% wastage =1100 avg. distance upto 10 km.)	100 No.	1100	230.14	2531.50
4	i) Carriage from site to site	100 No.	1000	153.42	1534.24
	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1000	1150.68	11506.80
5	Spot Irrigation (1000 Plants)	100 No.	1000	239.73	2397.25
6	Application of Insecticide (2 Times)	100 No.	1000	47.95	479.45
7	Application of Fertilizers (2 Times)	100 No.	1000	47.95	479.45
8	Weeding & Hoeing 3 Times	100 No.	3000	418.08	12542.41
9	Hand Watering (12 Times)	100 No.	12000	239.73	28767.00
10	Replanting of Plants 10%	100 No.	100	677.21	677.21
11	Rejungle Clearance (2 Times)	Per Ha.	1	2780.81	2780.81
12	Covering (25% plants) of plants	100 No.	250	345.20	863.01
13	Uncovering of plants	100 No.	250	38.36	95.89
14	Restubbing of Kana (1 Time)		0.25	31382.11	7845.53
15	Laying out & fixing of Barbed Wire	L/s			9205.44
16	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man Month	9972.56	6980.79
17	Material				
	i) Insecticides / Fertilizers	L/s			5846.95
	ii) POL	L/s			5846.95
	iii) Barbed Wire	L/s			58469.51
	Sub Total				218050.41
	Maintenance 1 Year				
1	Cost of raising plants for 30% replacement	1 No.	300	23.39	7016.34
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	69.73	1568.94
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	32.12	722.77
4	Loading & Unloading of Plants	1 No.	300	2.88	863.01
5	Carriage of Plants (300+10% Wastage = 330 avg. distance upto 10 Km.)	100 No.	1	229.43	229.43
6	Spreading of plants pit to pit	100 No.	165	153.42	253.15
7	Re-Planting to plants	100 No.	165	384.82	634.96
8	Spot Irrigation	100 No.	165	239.73	395.55

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Sr. No.	Name of Work	Unit	Qty.	Unit Cost (in Rs.)	Amount
9	Weeding & Hoeing (Three)	100 No.	3000	418.08	12542.41
10	Application of Insecticide (2 Times)	100 No.	1000	47.95	479.45
11	Application of Fertilizers (2 Times)	100 No.	1000	47.95	479.45
12	Hand Watering (6 Times)	100 No.	6000	418.08	25084.82
13	Rejungle Clearance (2 Times)	Per Ha.	1	2780.81	2780.81
14	Restubbing of Kana	Per Ha.	0.25	31381.76	7845.44
15	Watch & Ward for every 10 Ha. (10 Months)	Man Year	1/10 Man Yr.	9972.56	6980.79
16	Repair of Barbed Wire	L/s			5846.95
17	POL & Machinery	L/s			5846.95
18	Material and Supply	L/s			5846.95
	Sub Total				85418.18
	2nd Year Maintenance				
1	Cost of raising plants for 15% replacement	1 No.	150	23.39	3508.17
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	21.6	69.73	753.09
3	Refilling of pits with earth in other soils 150x 0.60 x 0.60 x 0.40	1 m3	21.6	32.12	346.93
4	Loading & Unloading of Plants	1 No.	75	2.88	215.75
5	Carriage of Plants Wastage = 75 avg. distance upto 10 Km.)	500 No.	1	229.43	229.43
6	Spreading of plants pit to pit	100 No.	75	153.42	115.07
7	Re-Planting to plants	100 No.	75	267.90	200.92
8	Spot Irrigation	100 No.	75	239.73	179.79
9	Weeding & Hoeing (Twice)	100 No.	2000	418.08	8361.61
10	Hand Watering (5 Times)	100 No.	5000	239.73	11986.25
11	Rejungle Clearance (2 Times)	Per Ha.	1	2780.81	2780.81
12	Pruning to Plants	100 No.	100	453.27	453.27
13	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	9972.56	6980.79
14	Repair of Barbed Wire	L/s			5846.95
15	POL & Machinery	L/s			5846.95
18	Material and Supply	L/s			5846.95
	Sub Total				53652.74
	3rd Year Maintenance				
1	Cost of raising plants for 10% replacement	1 No.	100	23.39	2338.78
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	1 m3	10	6973.07	502.06
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	7.5	32.12	231.29
4	Loading & Unloading of Plants	1 No.	100	2.88	287.67
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	100	1.17	116.94
6	Spreading of plants pit to pit	100 No.	100	153.42	153.42
7	Re-Planting to plants	100 No.	100	267.90	267.90
8	Spot Irrigation	100 No.	100	239.73	239.73
9	Weeding & Hoeing (thrice)	100 No.	2000	418.08	8361.61
10	Hand Watering (8 Times)	100 No.	5000	239.73	11986.25
11	Pruning to Plants 20%	100 No.	200	453.27	906.53
12	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	9972.56	6980.79
13	Repair of Barbed Wire	L/s			5846.95
14	POL & Machinery	L/s			5846.95
15	Material and Supply	L/s			5846.95
	Sub Total				49913.82
	4th Year Maintenance				
1	Cost of raising plants for 5% replacement	1 No.	50	23.39	1169.39
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	6973.07	502.06
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	3.75	32.12	231.29
4	Loading & Unloading of Plants	1 No.	50	2.88	143.84
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	50	1.17	58.47

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Sr. No.	Name of Work	Unit	Qty.	Unit Cost (in Rs.)	Amount
6	Spreading of plants pit to pit	100 No.	50	153.42	76.71
7	Re-Planting to plants	100 No.	50	267.90	133.95
8	Spot Irrigation	100 No.	50	239.73	119.86
9	Weeding & Hoeing (thrice)	100 No.	2000	418.08	8361.61
10	Hand Watering (8 Times)	100 No.	4000	239.73	9589.00
11	Pruning to Plants 30%	100 No.	300	453.27	1359.80
12	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	9972.56	6980.79
13	Repair of Barbed Wire	L/s			5846.95
14	POL & Machinery	L/s			5846.95
15	Material and Supply	L/s			5846.95
	Sub Total				46267.62
	5th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	9972.56	6980.79
	Sub Total				6980.79
	6th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	9972.56	6980.79
	Sub Total				6980.79
	7th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	9972.56	6980.79
	Sub Total				6980.79
	8th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	9972.56	6980.79
	Sub Total				6980.79
	9th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	9972.56	6980.79
	Sub Total				6980.79
	10th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	9972.56	6980.79
	Sub Total				6980.79
	Total				495187.53
	Over Head expenses 5%				24759.38
	Wage Enhancement @ 10%				49518.75
	G. Total				569465.66
	Comp. Aff. Scheme for 1.00 Ha.				569465.66
	Or Say				569466
	Cost of Compensatory Afforestation per Ha. For 7-10 Year for 100 Plants in 0.100 ha.	Ha.	0.100	569466	56947
	Net present value as per revised rate	Ha.	0.0060	957780	5747
	G.Total of CA+NPV				62694

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