

Full Title of the Project: Diversion of 0.45 ha. of Forest Land for improvement of roads from NH-03 to Dhobighat - Hoshiarpur and Una Road including construction of new road under Forest Division Hoshiarpur, Punjab.

File No. : _____

Date of Proposal: _____

CHECK LIST SERIAL NUMBER: 18

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Tall Plants Compensatory Afforestation of standing trees 160 Trees + 71 Poles = 231 x 10 times = 2310 plants on 2.31 Ha. for **diversion of 0.45 ha. of Forest Land for improvement of roads from NH-03 to Dhobighat - Hoshiarpur and Una Road including construction of new road under Forest Division Hoshiarpur, Punjab.**

1. **Details of degraded forest land/non-forest land:-**
District **Hoshiarpur** Village **Chak Sadhu, PF**
Tehsil : **Hoshiarpur**
Name of Forest Division **Hoshiarpur** Range **Hoshiarpur**
Block/Compartment/Survey No.: **H.B. No. 503**
Area to be afforested **2.31 Ha.**
2. **Description of the Area**
 - I) Whether the site selected for Compensatory Afforestation is a land bank or not : **Yes.**
 - II) If the CA site is other than the land bank, reasons be given : **---**
 - III) In case of non- forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:

 - IV) Soil type : **Medium.**
 - V) Topography :
 - (a) Hilly/Undulating/Plain
 - (b) Slope: Steep/Medium/Gentle
 - VI) Whether the area is bearing any root stock of vegetation: **NIL**
3. **Plantation Model:-**

Copy of the approved Compensatory Afforestation Scheme/Model showing component - wise physical and financial break up to be enclosed


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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.	2.31	186465.05	430734.27
1st Year Maintenance	2.31	73045.06	168734.09
2nd Year Maintenance	2.31	45880.96	105985.02
III rd Year Maintenance	2.31	42683.63	98599.19
IV th Year Maintenance	2.31	39565.59	91396.51
V th Year Maintenance	2.31	5969.60	13789.78
VI th Year Maintenance	2.31	5969.60	13789.78
VII th Year Maintenance	2.31	5969.60	13789.78
VIII th Year Maintenance	2.31	5969.60	13789.78
IX th Year Maintenance	2.31	5969.60	13789.78
X th Year Maintenance	2.31	5969.60	13789.78
Fencing (5% of plantation cost) & Overhead charges (10% of plantation cost) POL, OE, Misc.	2.31	63518.68	146728.15
Comp. Scheme for 1.00 Ha.		486976.57	1124916

Technical Details:-

Technical Details of compensatory afforestation scheme for follows :-

- General Detail
- Specing
- Species
- Plantation Method
- Soil & Moisture Conservation works
- Protection (Fencing Watchmen. People's Participation etc.)
- Any other information

Date:

Place : Hoshiarpur

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Plantation Model For Standard Plantation under Compensatory Afforestation for Diversion of 0.45 ha. of Forest Land for improvement of roads from NH-03 to Dhobighat - Hoshiarpur and Una Road including construction of new road under Forest Division Hoshiarpur, Punjab.

- 1 Diverted Area = **0.45**
- 2 Site of CA of standing trees 160 Tees + 71 Poles = $231 \times 10 \text{ times} = 2310 \text{ plats} = \text{Chak Sadhu PF}$
- 3 CA Scheme area :- **2.31**
- 4 No. of Plants planted = **2310**

Plantation Model For Standard Plantation under Compensatory Afforestation Wage Rate : Rs. 328
Plants Per Hectare : 1000 Nos.

Sr. No.	Name of Work	Unit	Qty.	Unit Cost (in Rs.)	Amount
	Nursery				
	Nursery cost of raising plants				
A	Soil Work	1100	1100	20.00	22000.00
1	Site / Jungle Clearance (25%)				
2	Alignment & Dagbaling	Ha.	0.5	5367.22	2683.61
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m	Ha.	1	984.00	984.00
5	Kana Stubbing 25%	1 M3	100	101.38	10138.00
B	Plantation Work	Ha.	0.25	26836.00	6709.00
1	Refilling of Pits 1000x0.5mx0.5mx0.3	100 cum	75	2747.00	2060.25
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No.	1100	550.00	6050.00
3	Carriage of Plants (1000+10% wastage =1100 avg. distance upto 10 km.)	100 No.	1100	196.80	2164.80
4	i) Carriage from site to site	100 No.	1000	131.20	1312.00
	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1000	984.00	9840.00
5	Spot Irrigation (1000 Plants)	100 No.	1000	205.00	2050.00
6	Application of Insecticide (2 Times)	100 No.	1000	41.00	410.00
7	Application of Fertilizers (2 Times)	100 No.	1000	41.00	410.00
8	Weeding & Hoeing 3 Times	100 No.	3000	357.52	10725.60
9	Hand Watering (12 Times)	100 No.	12000	205.00	24600.00
10	Replanting of Plants 10%	100 No.	100	579.11	579.11
11	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00	2378.00
12	Covering (25% plants) of plants	100 No.	250	295.20	738.00
13	Uncovering of plants	100 No.	250	32.80	82.00
14	Restubbing of Kana (1 Time)		0.25	26836.30	6709.08
15	Laying out & fixing of Barbed Wire	L/s			7872.00
16	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	8528.00	5969.60
17	Material				
	i) Insecticides / Fertilizers	L/s			
	ii) POL	L/s			5000.00
	iii) Barbed Wire	L/s			5000.00
	Sub Total				186465.05

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Sr. No.	Name of Work	Unit	Qty.	Unit Cost (in Rs.)	Amount
	Maintenance 1 Year				
1	Cost of raising plants for 30% replacement	1 No.	300	20.00	6000.00
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	59.63	1341.68
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	21.6	27.47	618.08
4	Loading & Unloading of Plants	1 No.	300	2.46	738.00
5	Carriage of Plants (300+10% Wastage = 330 avg. distance upto 10 Km.)	100 No.	1	196.20	196.20
6	Spreading of plants pit to pit	100 No.	165	131.20	216.48
7	Re-Planting to plants	100 No.	165	329.08	542.98
8	Spot Irrigation	100 No.	165	205.00	338.25
9	Weeding & Hoeing (Three)	100 No.	3000	357.52	10725.60
10	Application of Insecticide (2 Times)	100 No.	1000	41.00	410.00
11	Application of Fertilizers (2 Times)	100 No.	1000	41.00	410.00
12	Hand Watering (6 Times)	100 No.	6000	357.52	21451.20
13	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00	2378.00
14	Restubbing of Kana	Per Ha.	0.25	26836.00	6709.00
					5969.60
15	Watch & Ward for every 10 Ha. (10 Months)	Man Year	1/10 Man Yr.	8528.00	
16	Repair of Barbed Wire	L/s			5000.00
17	POL & Machinery	L/s			5000.00
18	Material and Supply	L/s			5000.00
	Sub Total				73045.06
	2nd Year Maintenance				
1	Cost of raising plants for 15% replacement	1 No.	150	20.00	3000.00
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	21.6	59.63	644.00
3	Refilling of pits with earth in other soils 150x 0.60 x 0.60 x 0.40	1 m3	21.6	27.47	296.68
4	Loading & Unloading of Plants	1 No.	75	2.46	184.50
5	Carriage of Plants Wastage = 75 avg. distance upto 10 Km.)	500 No.	1	196.20	196.20
6	Spreading of plants pit to pit	100 No.	75	131.20	98.40
7	Re-Planting to plants	100 No.	75	229.09	171.82
8	Spot Irrigation	100 No.	75	205.00	153.75
9	Weeding & Hoeing (Twice)	100 No.	2000	357.52	7150.40
10	Hand Watering (5 Times)	100 No.	5000	205.00	10250.00
11	Rejungle Clearance (2 Times)	Per Ha.	1	2378.00	2378.00
12	Pruning to Plants	100 No.	100	387.61	387.61
13	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8528.00	5969.60
14	Repair of Barbed Wire	L/s			5000.00
15	POL & Machinery	L/s			5000.00
18	Material and Supply	L/s			5000.00
	Sub Total				45880.96

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Sr. No.	Name of Work	Unit	Qty.	Unit Cost (in Rs.)	Amount
3rd Year Maintenance					
1	Cost of raising plants for 10% replacement	1 No.	100	20.00	2000.00
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	1 m3	10	5963.00	429.34
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	7.5	27.47	197.78
4	Loading & Unloading of Plants	1 No.	100	2.46	246.00
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	100	1.00	100.00
6	Spreading of plants pit to pit	100 No.	100	131.20	131.20
7	Re-Planting to plants	100 No.	100	229.09	229.09
8	Spot Irrigation	100 No.	100	205.00	205.00
9	Weeding & Hoeing (thrice)	100 No.	2000	357.52	7150.40
10	Hand Watering (8 Times)	100 No.	5000	205.00	10250.00
11	Pruning to Plants 20%	100 No.	200	387.61	775.22
12	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8528.00	5969.60
13	Repair of Barbed Wire	L/s			5000.00
14	POL & Machinery	L/s			5000.00
15	Material and Supply	L/s			5000.00
Sub Total					42683.63
4th Year Maintenance					
1	Cost of raising plants for 5% replacement	1 No.	50	20.00	1000.00
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	5963.00	429.34
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	3.75	27.47	197.78
4	Loading & Unloading of Plants	1 No.	50	2.46	123.00
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	50	1.00	50.00
6	Spreading of plants pit to pit	100 No.	50	131.20	65.60
7	Re-Planting to plants	100 No.	50	229.09	114.54
8	Spot Irrigation	100 No.	50	205.00	102.50
9	Weeding & Hoeing (thrice)	100 No.	2000	357.52	7150.40
10	Hand Watering (8 Times)	100 No.	4000	205.00	8200.00
11	Pruning to Plants 30%	100 No.	300	387.61	1162.83
12	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8528.00	5969.60
13	Repair of Barbed Wire	L/s			5000.00
14	POL & Machinery	L/s			5000.00
15	Material and Supply	L/s			5000.00
Sub Total					39565.59
5th Year Maintenance					
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
Sub Total					5969.60


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Sr. No.	Name of Work	Unit	Qty.	Unit Cost (in Rs.)	Amount
	6th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	7th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	8th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	9th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	10th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motnts)	Man Year	1/10 Man Yr.	8528.00	5969.60
	Sub Total				5969.60
	Total				423457.89
	Over Head expenses 5%				21172.89
	Wage Enhancement @ 10%				42345.79
	G. Total				486976.58
	Or Say				486977

Cost of CA of standing trees 160 Tees + 71 Poles = 231 x 10 times = 2310 platns = 2.31 Ha. For 7-10 Year	Ha.	2.31	486977	1124916
Net Present Value of Diverted Land	Ha.	0.45	887000	399150
		Grand Total =		1524066


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