

Diversion of 0.00597 hec. forest land for laying underground pipeline for irrigation of agricultural land in Village Loolbai and Bhadurgarh Jandian tehsil & district Bathinda from Canal Outlet No. 51500/R of Raike Feeder Canal (RHS) (Raike Feeder RD 51.500 R/s, Raike Kala to Raike Khurd road R/s) under Forest Division Bathinda. Punjab (Online Proposal No. FP/PB/Pipeline/143276/2021)

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for compensatory afforestation to be carried out in lieu of 0.00597 ha. of forest area to be diverted for laying underground pipeline for irrigation of agricultural land in Village Loolbai and Bhadurgarh Jandian tehsil & district Bathinda from Canal Outlet No. 51500/R of Raike Feeder Canal (RHS) (Raike Feeder RD 51.500 R/s, Raike Kala to Raike Khurd road R/s) under Forest Division Bathinda. Punjab (Online Proposal No. FP/PB/Pipeline/143276/2021)

1. Details of degraded forest land/non-forest land :-

District Bathinda Village Bathinda

Teh Bathinda

Name of Forest Division Bathinda Range Bathinda

Block/Compartment/Survey No Bathinda Area to be afforested Bathinda Branch Canal RD 375-380 L/s (Bathinda Range)

2. Description of 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 : N.A.

iii. In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary : N.A.

iv Soil type : Sandy.

v. Topography :- a. Hilly/Undulating/Plain

b. Slope : Steep/Medium/Gentle - N.A.

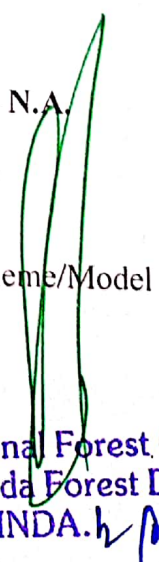
vi. Whether the area is bearing any root stock of vegetation Not

3. Plantation Model :

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

Date 18/08/2021

Place Bathinda

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2. Schedule of Plantation Programme :-

Detail of year wise break up of requirements of funds is as under :-

Year	Area	Rate/ha.	Total Amount
0 th Year	0.100	186465	18647
1 st Year	0.100	73045	7305
2 nd Year	0.100	45880	4588
3 rd Year	0.100	42683	4268
4 th Year	0.100	39565	3957
5 th Year	0.100	5969	597
6 th Year	0.100	5969	597
7 th year	0.100	5969	597
8 th year	0.100	5969	597
9 th year	0.100	5969	597
10 th year	0.100	5969	597
Overhead charges 5 %	0.100	21172	2117
Wage Enhancement @ 10%	0.100	42376	4238
Total		487000.00	48700.00

3. Technical details :

Technical details of Compensatory Afforestation Scheme are as follows :

- General Details : **Afforestation by Artificial Regeneration**
- Spacement :- **3mX3m**
- Species : **Ailanthus, Cassia siamia, Shisham, Neem, Jaman, etc.**
- Plantation Method : **Pit & Trench**
- Soil and Moisture Conservation Works : **Digging of Trenches**
- Protection (Fencing, Watch man, People's Participation etc) : **Fencing & Watch**
- Proposed Monitoring Mechanism : **Forest Department**
- Any other information : ---

Date .18/08/2021
Place .Bathinda

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Plantation Model For Standard Plantation under Compensatory Afforestation

Plants Per Hectare : 1000 Nos.

Wage Rate Rs. 328

Land bank :- Bathinda Branch Canal RD 375-380 L/s (Bathinda Range)					
Sr. No.	Name of work	Unit	Qty.	Unit Cost (in Rs.)	Amount
	Nursery				
	Nursery cost of raising plants	1100	1100	20.00	22000.00
A	Soil Work				
1	Site / Jungle Clearance (25%)	Ha.	0.5	5367.22	2683.61
2	Alignment & Dagbaling	Ha.	1	984.00	984.00
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m	1 M3	100	101.38	10138.00
5	Kana Stubbing 25%	Ha.	0.25	26836.00	6709.00
B	Plantation Work				
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			5000.00
	ii) POL	L/s			5000.00
	iii) Barbed Wire	L/s			50000.00
	Sub Total				186465.05
	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

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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
15	Watch & Ward for every 10 Ha. (10 Months)	Man Year	1/10 Man Yr.	8528.00	5969.60
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
	3rd Year Maintenance				
1	Cost of raising plants for 10% replacement	1 No.	100	20.00	2000.00

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Diversion of 0.00597 hec. forest land for laying underground pipeline for irrigation of agricultural land in Village Loolbai and Bhadurgarh Jandian tehsil & district Bathinda from Canal Outlet No. 51500/R of Raikar Canal (RHS) (Raikar Feeder RD 51.500 R/s, Raikar Kala to Raikar Khurd road R/s) under Forest Division Bathinda, Punjab (Online Proposal No. FP/PB/Pipeline/143276/2021)

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 (twice)	100 No.	2000	357.52	7150.40
10	Hand Watering (5 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 (twice)	100 No.	2000	357.52	7150.40
10	Hand Watering (4 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

B71
18/08/21

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Haryana (Online Proposal No. FP/PB/Pipeline/143276/2021)					
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
				Per plant	487
1	Cost of Compensatory Afforestation of 100 Plants @ 487/- Rs. Per ha.			CA	48700.00
2	Cost of Additional Compensatory Afforestation (Tall Plants) of 11 Plants *2 = 22 Plants @ 676/- Rs. Per Plants (Estimate			ACA	14872.00
3	Sub Total (1+2)				63572.00
4	Entry Point Acitivity 10% of CA & ACA			EPA	6357.00
5	NPV OF 'area 0.00597*887000/-Per Ha.			NPV	5295.00
Grand Total (3+4+5)					75224.00

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Diversion of 0.00597 hec. forest land for laying underground pipeline for irrigation of agricultural land in Village Bhai and Bhadurgarh Jandian tehsil & district Bathinda from Canal Outlet No. 51500/R of Raike Feeder Canal (RHS) Raike Feeder RD 51.500 R/s, Raike Kala to Raike Khurd road R/s) under Forest Division Bathinda. Punjab (Online Proposal No. FP/PB/Pipeline/143276/2021)

Land Bank : Bathinda Branch Canal RD 375-380 L/s (Bathinda Range)				Rate= 328	
Estimate for planting of Tall plants					
	Name of Work	Unit	Unit Cost (In Rs.)	Qty	Total Amt
	Nursery				
	Cost of Tall plants	1 No	60	550	33000.00
	Soil Works				
1	Site /Jungle Clearance (50%)	Ha.	5367.22	0.5	2683.61
2	Alignment & Dagbailing	Ha.	984	1	984.00
3	Earth Work- Digging of Pits 500x 0.6m x0.6m x0.5m Heavv Soil	1M ³	101.38	90	9124.20
4	Kana Stubbing 25%	Ha.	26836.3	0.25	6709.08
	Planting				
1	Refilling of Pits	100 cum	2747	72	1977.84
2	Loading & Unloading of Plants (500+10% Wastage=550)	100 No	246	550	1353.00
3	Carriage of Plants (500+10% Wastage=550 avg. distance upto 10 km.)500 Trolly	100 No	196.8	1	196.80
4	i) Carriage from site to site	100 No	131.2	550	721.60
	ii) Planting of Plants (500 No Including 10% replacement)	100 No	984	550	5412.00
5	Spot Irrigation (500 Plants)	100 No	205	500	1025.00
6	Application of Insecticide (2	100 No	41	1000	410.00
7	Application of Fertilizers (2 times)	100 No	41	1000	410.00
8	Weeding & Hoeing 3 times	100 No	357.52	1500	5362.80
9	Hand Water 6 months x 2 times =12 times	100 No	205	6000	12300.00
10	Replanting of Plants 10%	100 No	579.11	50	289.56
11	Rejungle Clearance (2 times)	Per Ha.	2378	1	2378.00
12	Covering (25% plants) of plants	100 No	295.2	125	369.00
13	Uncovering of plants	100 No	32.8	125	41.00
14	Restubbing of Kana (1 time)	Ha.	26836.3	0.25	6709.08
15	Laying out & fixing of Barbed Wire	L/s			4200.00
16	Watch & Ward for every 10 Ha. (7 months)	Man year	8528	1Man 7 Month	5969.60
17	Material				
	i) Insecticides/Fertilizers	L/s			5000.00
	ii) POL	L/s			5000.00
				Sub Total	111626.16

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Maintenance I Year					
1	Cost of plants for 30% replacement	1 No.	60	150	9000.00
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	59.63	21.6	1288.01
3	Refilling of pits with earth in other soils 150 x 0.60 x 0.60 x 0.40	1 m3	27.47	21.6	593.35
4	Loading & Unloading of Plants	1 No.	2.46	150	369.00
5	Carriage of Plants (150+10% Wastage=330 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	165	216.48
7	Re-planting Tall Plants	100 No	329.08	165	542.98
8	Spot Irrigation	100 No.	205	165	338.25
9	Weeding & Hoeing (thrice)	100 No	357.52	1500	5362.80
10	App. Of Fertilizer (two times)	100 No	41	1000	410.00
11	App. Of Insecticide (two times)	100 No	41	1000	410.00
12	Hand watering 6 months x 2 times =12 times	100 No	357.52	6000	21451.20
13	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
14	Restubbing of Kana	Ha.	26836	0.25	6709.00
15	Watch & Ward for every 10 Ha. (10 months)	Man year	8528	1/10 Man yr.	8528.00
16	POL	L/s			5000.00
17	Material and supply	L/s			5000.00
				Sub Total	67793.27
Maintenance II Year					
1	Cost of plants for 15% replacement	No.	60	75	4500.00
2	Reopening of Pits 75 x 0.60 x 0.60 x 0.40	1 m3	59.63	10.8	644.00
3	Refilling of pits with earth in other soils 75 x 0.60 x 0.60 x 0.40	1 m3	27.47	10.8	296.68
4	Loading & Unloading of Plants	1 No.	2.46	75	184.50
5	Carriage of Plants = 75 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	75	98.40
7	Re-planting to tall plants	100 No	229.08	75	171.81
8	Spot Irrigation	100 No.	205	75	153.75
9	Weeding & Hoeing (twice)	100 No	357.52	1500	5362.80
10	Hand Watering 10 Times	100 No	205	5000	10250.00

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Bathinda Forest Division,
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Conversion of 0.00597 hec. forest land for laying underground pipeline for irrigation of agricultural land in Village Lohi and Bhadurgarh Jandian tehsil & district Bathinda from Canal Outlet No. 51500/R of Raike Feeder Canal (RHS), Raike Feeder RD 51.500 R/s, Raike Kala to Raike Khurd road R/s) under Forest Division Bathinda. Punjab (Online Proposal No. FP/PB/Pipeline/143276/2021)

11	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
12	Stubbing of Kana	Ha.	26836	0.1	2683.60
13	Pruning to plants	100 No.	387.61	100	387.61
14	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
15	POL	L/s			5000.00
16	Material and supply	L/s			5000.00
				Sub Total	45835.35

Maintenance III Year

1	Cost of plants for 10% replacement	1 No.	60	50	3000.00
2	Reopening of Pits 50 x 0.60 x 0.60 x 0.40	1 m3	5963	7.2	429.34
3	Refilling of pits with earth in other soils 50 x 0.60 x 0.60 x 0.40	1 m3	27.47	7.2	197.78
4	Loading & Unloading of Plants	1 No.	2.46	50	123.00
5	Carriage of Plants 50 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	50	65.60
7	Re-planting to plants	100 No	229.08	50	114.54
8	Spot Irrigation	100 No.	205	50	102.50
9	Weeding & Hoeing (thrice)	100 No	357.52	1500	5362.80
10	Hand Watering (8 times)	100 No	205	4000	8200.00
11	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
12	Stubbing of Kana	Ha.	26836	0.1	2683.60
13	Pruning to plants 20%	100 No.	387.61	100	387.61
14	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
15	POL	L/s			5000.00
16	Material and supply	L/s			5000.00
				Sub Total	41768.97

Maintenance IV Year

1	Cost of plants for 5% replacement	1 No.	60	25	1500.00
2	Reopening of Pits 25 x 0.60 x 0.60 x 0.40	1 m3	59.63	3.6	214.67
3	Refilling of pits with earth in other soils 25 x 0.60 x 0.60 x 0.40	1 m3	27.47	3.6	98.89
4	Loading & Unloading of Plants	1 No.	2.46	25	61.50
5	Carriage of Plants = 25 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	25	32.80
7	Re-planting to plants	100 No	229.08	25	57.27

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8	Spot Irrigation	100 No.	205	25	51.25
9	Weeding & Hoeing (twice)	100 No	357.52	1500	5362.80
10	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
11	Pruning to plants 30%	100 No.	387.61	300	1162.83
12	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
15	POL	L/s			5000.00
16	Material and supply	L/s			5000.00
				Sub Total	29644.21
				TOTAL	296667.96
	Over Head expenses 5%				14833.40
	Enhancement due to wage escalation @9%				26700.12
				G.Total	338201.47
				Or Say	338201
Note	The watch and ward in subsequent				
	Total Cost of per plant (in	676			
	Cost of Tree Guards as per site is extra (in Rs per Tree Guard)	1800			
	Cost of Compensatory Afforestation (Tall Plants) $11*2 = 20$ Tall Plants @ 676 Rs.PER Tall Plants				14872.00
	Grand Total				14872.00

BTI
18/08/21

Divisional Forest Officer
Bathinda Forest Division,
BATHINDA.
Divisional Forerst Officer
Bathinda