

Full Title of the Projects:- Diversion of 0.456 Ha. of Forest Land {(0.2250 Ha. at Narwana Branch Canal RD 78 - 81 RHS WTP Site Pabra), (0.0945 HA at Bahadurghar to Ghanaur Road from Shekhu pura to Siyalu RHS, Mandauli Cluster), (0.1365 HA at Banur Canal RD Nanhera to Bhuri Majra (RHS))} for the laying of drinking water Pipe line Various Strips in Rajpura Range, Tehsil Rajpura, Distt. Patiala under Forest Division, Patiala, Punjab.

Proposal No. : FP/PB/Pipeline/146466/2021

CHECK LIST SERIAL NUMBER:-17

"SCHEME FOR Addl. COMPENSATORY AFFORESTATION"

Detail scheme Addl. Compensatory Afforestation Estimate for diversion of 0.456 Ha. of Forest Land {(0.2250 Ha. at Narwana Branch Canal RD 78 - 81 RHS WTP Site Pabra), (0.0945 HA at Bahadurghar to Ghanaur Road from Shekhu pura to Siyalu RHS, Mandauli Cluster), (0.1365 HA at Banur Canal RD Nanhera to Bhuri Majra (RHS))} for the laying of drinking water Pipe line Various Strips in Rajpura Range, Tehsil Rajpura, Distt. Patiala under Forest Division, Patiala, Punjab.

Details of Degraded forest land:- Badshahpur Minor RD 0 to Tail B/s District :Patiala

Village : Badshahpur Minor RD 0 to Tail B/s , Tehsil: Samana

Name of Forest Division: Patiala, Forest Range: Samana

Block No./Compartment No./Survey No. Badshahpur Minor RD 0 to Tail B/s Area:- 0.336 Ha.

Area to be afforested:- 0.336 Ha. Badshahpur Minor RD 0 to Tail B/s

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:- Land bank.
- 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:- Heavy
- v. Topography:- a. Plain
b. Slope:- Gentle
- vi. Whether the area is bearing any root stock of vegetation: Scattered .

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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4. Schedule of Plantation Programme:-

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

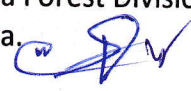
0 th year	0.336	125265.1	42089.07
1 st Year	0.336	76076.36	25561.66
2 nd Year	0.336	51435.29	17282.26
3 rd Year	0.336	46872.02	15749.00
4 th Year	0.336	33263.88	11176.66
Supervision Charge	0.336	46607.77	15660.21
		379520.42	127519
		168 X 759	127512

5. Technical Details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Details :-
- Spacing :- 3 x 3 mtr.
- Species :- Arjun , Salix (willow) etc.
- plantation Method :- Pit & Trenches
- Soil and Moisture Conservation Works :-
- Protection (Fencing, Watch man , People's Participation etc.): Fencing, Watch Man
- Proposed Monitoring Mechanism :- Internal
- Any other information :-

Date: 26 OCT 2021
Place: Patiala


Vidhya Sagari R.U. , IFS
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Estimate for planting of Tall plants				Rate= 368.05	
Sr. No.	Name of Work	Unit	Unit Cost (In Rs.)	Qty.	Total Amt
	Nursery				
	Cost of Tall plants	1 No	67.33	550	37032.44
	Soil Works				
1	Site /Jungle Clearance (50%)	Ha.	6023.07	0.5	3011.53
2	Alignment & Dagbailing	Ha.	1104.24	1	1104.24
3	Earth Work Digging of Pits 500 x 0.6m x0.6m x0.5m Heavy Soil	1M ³	113.77	90	10239.13
4	Kana Stubbing 25%	Ha.	30115.56	0.25	7528.89
	Planting		0.00		
1	Refilling of Pits	100 cum	3082.67	72	2219.52
2	Loading & Unloading of Plants (500+10% Wastage=550)	100 No	276.06	550	1518.33
3	Carriage of Plants (500+10% Wastage=550 avg. distance upto 10 km.)500 Trolly	100 No	220.85	1	220.85
4	i) Carriage from site to site	100 No	147.23	550	809.78
	ii) Planting of Plants (500 No Including 10% replacement)	100 No	1104.24	550	6073.32
5	Spot Irrigation (500 Plants)	100 No	230.05	500	1150.25
6	Application of Insecticide (2 times)	100 No	46.01	1000	460.10
7	Application of Fertilizers (2 times)	100 No	46.01	1000	460.10
8	Weeding & Hoeing 3 times	100 No	401.21	1500	6018.11
9	Hand Water 6 months x 2 times =12 times	100 No	230.05	6000	13803.00
10	Replanting of Plants 10%	100 No	649.87	50	324.94
11	Rejungle Clearance (2 times)	Per Ha.	2668.58	1	2668.58
12	Covering (25% plants) of plants	100 No	331.27	125	414.09

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13	Uncovering of plants	100 No	36.81	125	46.01
14	Restubbing of Kana (1 time)	Ha.	30115.56	0.25	7528.89
15	Laying out & fixing of Barbed Wire	L/s	0.00		4713.00
16	Watch & Ward for every 10 Ha. (7 months)	Man year	9570.08	1Man 7 Month	6698.00
17	Material				
	i) Insecticides/Fertilizers	L/s			5611.00
	ii) POL	L/s			5611.00
				Sub Total	125265.10
Maintenance 1 Year					
1	Cost of plants for 30%	1 No.	67.33170732	150	10099.76
	replacement				0.00
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	66.91649512	21.6	1445.40
3	Refilling of pits with earth in other soils 150 x 0.60 x 0.60 x 0.40	1 m3	30.8267	21.6	665.86
4	Loading & Unloading of Plants	1 No.	2.7606	150	414.09
5	Carriage of Plants (150+10% Wastage=330 avg. distance upto 10 km.)	500 No	220.1746829	1	220.17
6	Spreading of plants pit to pit	100 No	147.232	165	242.93
7	Re-planting Tall Plants	100 No	369.2919707	165	609.33
8	Spot Irrigation	100 No.	230.05	165	379.58
9	Weeding & Hoeing (thrice)	100 No	401.2072	1500	6018.11
10	App. Of Fertilizer (two times)	100 No	46.01	1000	460.10
11	App. Of Insecticide (two times)	100 No	46.01	1000	460.10
12	Hand watering 6 months x 2 times =12 times	100 No	401.2072	6000	24072.43
13	Rejungle Clearance (2 times)	Ha.	2668.58	1	2668.58

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14	Restubbing of Kana	Ha.	30115.22829	0.25	7528.81
15	Watch & Ward for every 10 Ha. (10 months)	Man year	9570.08	1/10 Man yr.	9570.08
16	POL	L/s			5610.52
17	Material and supply	L/s			5610.52
				Sub Total	76076.36
Maintenance II Year					0.00
1	Cost of plants for 15% replacement	No.	67.33170732	75	5049.88
2	Reopening of Pits 75 x 0.60 x 0.60 x 0.40	1 m3	66.91649512	10.8	722.70
3	Refilling of pits with earth in other soils 75 x 0.60 x 0.60 x 0.40	1 m3	30.8267	10.8	332.93
4	Loading & Unloading of Plants	1 No.	2.7606	75	207.05
5	Carriage of Plants = 75 avg. distance upto 10 km.)	500 No	220.1746829	1	220.17
6	Spreading of plants pit to pit	100 No	147.232	75	110.42
7	Re-planting to tall plants	100 No	257.0724585	75	192.80
8	Spot Irrigation	100 No.	230.05	75	172.54
9	Weeding & Hoeing (twice)	100 No	401.2072	1500	6018.11
10	Hand Watering 10 Times	100 No	230.05	5000	11502.50
11	Rejungle Clearance (2 times)	Ha.	2668.58	1	2668.58
12	Stubbing of Kana	Ha.	30115.22829	0.1	3011.52
13	Pruning to plants	100 No.	434.9740512	100	434.97
14	Watch & Ward for every 10 Ha.	Man year	9570.08	1/10 Man yr.	9570.08
15	POL	L/s			5610.52
16	Material and supply	L/s			5610.52
				Sub Total	51435.29

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Maintenance III Year					0.00
1	Cost of plants for 10% replacement	1 No.	67.33170732	50	3366.59
2	Reopening of Pits 50 x 0.60 x 0.60 x 0.40	1 m3	6691.649512	7.2	481.80
3	Refilling of pits with earth in other soils 50 x 0.60 x 0.60 x 0.40	1 m3	30.8267	7.2	221.95
4	Loading & Unloading of Plants	1 No.	2.7606	50	138.03
5	Carriage of Plants 50 avg. distance upto 10 km.)	500 No	220.1746829	1	220.17
6	Spreading of plants pit to pit	100 No	147.232	50	73.62
7	Re-planting to plants	100 No	257.0724585	50	128.54
8	Spot Irrigation	100 No.	230.05	50	115.03
9	Weeding & Hoeing (thrice)	100 No	401.2072	1500	6018.11
10	Hand Watering (8 times)	100 No	230.05	4000	9202.00
11	Rejungle Clearance (2 times)	Ha.	2668.58	1	2668.58
12	Stubbing of Kana	Ha.	30115.22829	0.1	3011.52
13	Pruning to plants 20%	100 No.	434.9740512	100	434.97
14	Watch & Ward for every 10 Ha.	Man year	9570.08	1/10 Man yr.	9570.08
15	POL	L/s			5610.52
16	Material and supply	L/s			5610.52
				Sub Total	46872.02
Maintenance IV Year					
1	Cost of plants for 5% replacement	1 No.	67.32621951	25	1683.16
2	Reopening of Pits 25 x 0.60 x 0.60 x 0.40	1 m3	66.91104116	3.6	240.88
3	Refilling of pits with earth in other soils 25 x 0.60 x 0.60 x 0.40	1 m3	30.8241875	3.6	110.97

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4	Loading & Unloading of Plants	1 No.	2.760375	25	69.01
5	Carriage of Plants = 25 avg. distance upto 10 km.)	500 No	220.1567378	1	220.16
6	Spreading of plants pit to pit	100 No	147.22	25	36.81
7	Re-planting to plants	100 No	257.0515061	25	64.26
8	Spot Irrigation	100 No.	230.03125	25	57.51
9	Weeding & Hoeing (twice)	100 No	401.1745	1500	6017.62
10	Rejungle Clearance (2 times)	Ha.	2668.3625	1	2668.36
11	Pruning to plants 30%	100 No.	434.9385991	300	1304.82
12	Watch & Ward for every 10 Ha.	Man year	9569.3	1/10 Man yr.	9569.30
15	POL	L/s			5610.52
16	Material and supply	L/s			5610.52
				Sub Total	33263.88
				TOTAL	332912.65
	Over Head expenses 5%				16645.63
	Enhancement due to wage escalation @9%				29962.14
				G.Total	379520.42
				Or Say	379520.00
Note	The watch and ward in subsequent years will carry out the necessary operations of Pruning				
	Total Cost per plant (in Rs)		759		
	Addl. Compensatory Afforestation of Tall Plants		72 plants+12 U/g Pole = 84 x 2 = 168 X 759/-		1,27,512/-

Date: 26 OCT 2021
Place: Patiala

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