

Full Title of the
Proposal

Diversion of 1.23 ha. of forest land for Construction of Chandigarh Barrier, Jainti Majri, Gura, Kasouli Karondewala up to Haryana Border link road (Proposed length 2.46 KM), under forest Division & Distt. SAS Nagar, Punjab.

Acknowledgement
Key at Division
level

Proposal No. FP/PB/ROAD/42364/2019/S.A.S.Nagar Forest Division/Pvt. (Division FCA register) ...1.7.0.... Date .19.12.19.

CHECK LIST SERIAL NUMBER: 18

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for Additional Compensatory Afforestation Tall plants to be carried out in lieu of 1.23 hectare of Forest area to be diverted for Construction of Chandigarh Barrier, Jainti Majri, Gura, Kasouli Karondewala up to Haryana Border link road (Proposed length 2.46 KM), under forest Division & Distt. SAS Nagar, Punjab.

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

Distt. = S.A.S Nagar, Village Hansala,

Tehsil- Derabassi,

Name of Forest Division = S.A.S Nagar, Range – Derabassi,

Block/Compartment/Survey No. Bir Hansala,

Area to be afforestation = 0.592 Ha.

2. **Description of the Area**

- i. Whether the site selected for Additional Compensatory Afforestation Tall plants is a land bank or not **Bir Hansala** selected for Comp. Aff.
- 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...**N.A. Km approximately.**
- iv. Soil type: **Heavy**
- v. Topography:
 - a. **Hilly/Undulating/Plain**
 - b. **Slope: Steep / Medium / Gentle**
- vi. Whether the area is bearing any root stock of Vegetation: **Yes.**

3. **Plantation Model :**

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

Divisional Forest Officer
S.A.S. Nagar

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4. **Schedule of Plantation Programme:-**

Details of year-wise break-up of requirements of funds are as under:-

Total Cost per plant (in Rs)	296.000	755.00	223480.00
Cost of Tree Guards as per site is extra (in Rs per Tree Guard)	296.000	1800.00	532800.00
Total			756280.00

5. **Technical Details:-**

Technical details of Additional Compensatory Afforestation Tall plants Scheme are as follows:-

- (a) General Details : Detail as under :-
- (b) Spacement: **3 Mtr x 3 Mtr.**
- (c) Species: **Shisham, Kikar, Dek.Euc., Arjan, & Other species.**
- (d) Plantation Method : **Degraded Planting**
- (e) Soil and Moisture Conservation Works: **N.A.**
- (f) Protection (Fencing, Watch man, People's Participation etc.): **Fencing & Watch & Ward.**
- (g) Proposed Monitoring Mechanisms: **N.A.**
- (h) Any other information: **Nil**

Place: S.A.S Nagar

Date: 22.12.2019

(Guramanpreet Singh, PFS)
Divisional Forest Officer,
Forest Division S.A.S.Nagar,
S.A.S Nagar.

Additional Compensatory Afforestation Scheme for diversion of 1.23 hac. of forest land in favour of Construction of Chandigarh Barrier Jainti Majri, Gura, Kasouli Karondawala up to Haryana Border Link road (Proposed lenth 2.46 KM) Under Forest Division & Disst S.A.S. Nagar.

1) Diverted Forest Area = 1.23 Ha.

2) Additional Comp. Aff. Tall plants Schme area =0.592 Ha.

3) Name of Site of Plantation = Bir Hansala, Derabassi

Daily Wage Rate : 368/-

4) No. of Tall plants Planted = 296 Plants

Plants : 1000 No.

Estimate for planting of Tall plants

	Name of Work	Unit	Unit Cost (In Rs.)	Qty	Total Amt
	Nursery				
	Cost of Tall plants	1 No	67.33	550	37031.50
	Soil Works				
		Ha	6023.07	0.5	3011.54
1	Site /Jungle Clearance (50%)	Ha.	1101.24	1	1101.24
2	Alignment & Dagbailing	1M ³	113.77	90	10239.30
3	Earth Work-				
	Digging of Pits 500 x 0.6m x 0.6m x 0.5m Heavy Soil	Ha.	30115.56	0.25	7528.89
4	Kana Stubbing 25%				
	Planting				
		100 cum	3082.67	72	2219.52
1	Refilling of Pits	100 No	276.06	550	1518.33
2	Loading & Unloading of Plants (500+10% Wastage=550)	100 No	220.85	1	220.85
3	Carriage of Plants (500+10% Wastage=550 avg. distance upto 10 km.) 500 Trolly	100 No	147.23	550	809.77
4	i) Carriage from site to site	100 No	1104.24	550	6073.32
	ii) Planting of Plants (500 No Including 10% replacement)	100 No	230.05	500	1150.25
5	Spot Irrigation (500 Plants)	100 No	46.01	1000	460.10
6	Application of Insecticide (2 times)	100 No	46.01	1000	460.10
7	Application of Fertilizers (2 times)	100 No	401.21	1500	6018.15
8	Weeding & Hoeing 3 times	100 No	230.05	6000	13803.00
9	Hand Water 6 months x 2 times =12 times	100 No	649.87	50	324.94
10	Replanting of Plants 10%	Per Ha.	2668.58	1	2668.58
11	Rejungle Clearance (2 times)	100 No	331.27	125	414.09
12	Covering (25% plants) of plants	100 No	36.81	125	46.01
13	Uncovering of plants	Ha.	30115.56	0.25	7528.89
14	Restubbing of Kana (1 time)	L/s			4200.00
15	Laying out & fixing of Barbed Wire	Man year	9570.08	1 Man 7 Month	6698.00
16	Watch & Ward for every 10 Ha. (7 months)				
17	Material	L/s			5611.00
	i) Insecticides/Fertilizers	L/s			5611.00
	ii) POL				
				Sub Total	124748.36
	Maintenance 1 Year				
		1 No.	67.33	150	10099.50
1	Cost of plants for 30% replacement	1 m3	66.91	21.6	1445.26
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	30.82	21.6	665.71
3	Refilling of pits with earth in other soils 150 x 0.60 x 0.60 x 0.40	1 No.	2.76	150	414.00
4	Loading & Unloading of Plants	500 No	220.17	1	220.17
5	Carriage of Plants (150+10% Wastage=330 avg. distance upto 10 km.)	100 No	147.232	165	242.93
6	Spreading of plants pit to pit	100 No	369.29	165	609.33
7	Re-planting Tall Plants	100 No.	230.05	165	379.58
8	Spot Irrigation	100 No	401.2	1500	6018.00
9	Weeding & Hoeing (thrice)	100 No	46.01	1000	460.10
10	App. Of Fertilizer (two times)	100 No	46.01	1000	460.10
11	App. Of Insecticide (two times)	100 No	401.2	6000	24072.00
12	Hand watering 6 months x 2 times =12 times	Ha	2668.58	1	2668.58
13	Rejungle Clearance (2 times)	Ha.	30115.23	0.25	7528.81
14	Restubbing of Kana	Man year	9570.08	1/10 Man yr.	8528.00
15	Watch & Ward for every 10 Ha. (10 months)	L/s			5610.52
16	POL	L/s			5610.52
17	Material and supply				
				Sub Total	75033.11

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Maintenance II Year				
1	Cost of plants for 15% replacement	No.	67.33	75
2	Reopening of Pits 75 x 0.60 x 0.60 x 0.40	1 m ³	66.91	10.8
3	Refilling of pits with earth in other soils 75 x 0.60 x 0.60 x 0.40	1 m ³	30.82	10.8
4	Loading & Unloading of Plants	1 No.	2.76	75
5	Carriage of Plants - 75 avg. distance upto 10 km.)	500 No.	220.174	1
6	Spreading of plants pit to pit	100 No.	147.23	75
7	Re-planting to tall plants	100 No.	257.07	75
8	Spot Irrigation	100 No.	230.05	75
9	Weeding & Hoeing (twice)	100 No.	401.2	1500
10	Hand Watering 10 Times	100 No.	230.05	5000
11	Rejungle Clearance (2 times)	Ha.	2668.58	1
12	Stubbing of Kana	Ha.	30115.23	0.1
13	Pruning to plants	100 No.	434.97	100
14	Watch & Ward for every 10 Ha.	Man year	9570.08	1/10 Man yr.
15	POL	L/s		
16	Material and supply	L/s		
				Sub Total
				51434.78
Maintenance III Year				
1	Cost of plants for 10% replacement	1 No.	67.33	50
2	Reopening of Pits 50 x 0.60 x 0.60 x 0.40	1 m ³	6691.65	7.2
3	Refilling of pits with earth in other soils 50 x 0.60 x 0.60 x 0.40	1 m ³	30.82	7.2
4	Loading & Unloading of Plants	1 No.	2.76	50
5	Carriage of Plants 50 avg. distance upto 10 km.)	500 No.	220.17	1
6	Spreading of plants pit to pit	100 No.	147.23	50
7	Re-planting to plants	100 No.	257.07	50
8	Spot Irrigation	100 No.	230.05	50
9	Weeding & Hoeing (thrice)	100 No.	401.2	1500
10	Hand Watering (8 times)	100 No.	230.05	4000
11	Rejungle Clearance (2 times)	Ha.	2668.58	1
12	Stubbing of Kana	Ha.	30115.23	0.1
13	Pruning to plants 20%	100 No.	434.97	100
14	Watch & Ward for every 10 Ha.	Man year	9570.08	1/10 Man yr.
15	POL	L/s		
16	Material and supply	L/s		
				Sub Total
				46871.74
Maintenance IV Year				
1	Cost of plants for 5% replacement	1 No.	67.32	25
2	Reopening of Pits 25 x 0.60 x 0.60 x 0.40	1 m ³	66.91	3.6
3	Refilling of pits with earth in other soils 25 x 0.60 x 0.60 x 0.40	1 m ³	30.82	3.6
4	Loading & Unloading of Plants	1 No.	2.76	25
5	Carriage of Plants - 25 avg. distance upto 10 km.)	500 No.	220.15	1
6	Spreading of plants pit to pit	100 No.	147.22	25
7	Re-planting to plants	100 No.	257.05	25
8	Spot Irrigation	100 No.	230.03	25
9	Weeding & Hoeing (twice)	100 No.	401.174	1500
10	Rejungle Clearance (2 times)	Ha.	2668.36	1
11	Pruning to plants 30%	100 No.	434.93	300
12	Watch & Ward for every 10 Ha.	Man year	9569.3	1/10 Man yr.
15	POL	L/s		
16	Material and supply	L/s		
				Sub Total
				33263.65
				TOTAL
				331351.64
	Over Head expenses 5%			16567.58
	Enhancement due to wage escalation @9%			29821.65
				G.Total
				377740.87
				Or Say
				377741

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Note:	The watch and ward in subsequent years will carry out the necessary operations of Pruning			
Total Cost per plant (in Rs)	755			
Cost of Tree Guards as per site is extra (in Rs per Tree Guard)	1800	296		532800.00
Total Cost per plant (in Rs)	755			755.00
Total No. of effected under Garh Pole & Plants $148 \times 2 = 296$ plants				296
Comp. Aff. Tall plants Schme		296×755		223480.00
Grand Total				756280.00
Net Present value of diverted land		1.23×1228590		1511166.00
G.Total				2267446.00

Place: S.A.S Nagar

Date: 23.02.2022

(Guramanpreet Singh, IFS)
Divisional Forest Officer,
Forest Division S.A.S.Nagar,
S.A.S Nagar.