

Full Title of the Proposal

Division of 0.014 hac. of forest land for construction of approach road to M/s STJ Infra for commercial Purpose/Colony at village Nabha, Tehsil Zirakpur on Zirakpur-Patiala road NH 7 Km 341.565 LHS (old NH 64 KM 2.435 RHS), under Forest Division & Distt. S.A.S. Nagar, Punjab.

Acknowledgement**Key at Division level**

Proposal No. FP/PB/Approach/127487/2021/S.A.S.Nagar Forest Division/Pvt. (Division FCA register) 1.7.7... Date 22/4/2021

CHECK LIST SERIAL NUMBER: 18**“SCHEME FOR COMPENSATORY AFFORESTATION”**

Detail scheme for Compensatory Afforestation to be carried out in lieu of 0.014 hectare of Forest area to be diverted for construction of approach road to M/s STJ Infra for commercial Purpose/Colony at village Nabha, Tehsil Zirakpur on Zirakpur-Patiala road NH 7 Km 341.565 LHS (old NH 64 KM 2.435 RHS), under Forest Division & Distt. S.A.S. 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 = **0.100 Ha.**

2. Description of the Area

- i. Whether the site selected for Compensatory Afforestation is a land bank or not **Siswan Diversion** 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 Compensatory Afforestation Scheme / Model showing component wise physical and financial break up to be enclosed.


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4. Schedule of Plantation Programme:-

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

Year	Area	Total Amount
0 th Year Mtc.	0.100 ha.	18646.00
1 st Year Mtc.	0.100 ha.	7305.00
2 nd Year Mtc.	0.100 ha.	4588.00
3 rd Year Mtc.	0.100 ha.	4268.00
4 th Year Mtc.	0.100 ha.	3957.00
5 th Year Mtc.	0.100 ha.	597.00
6 th Year Mtc.	0.100 ha.	597.00
7 th Year Mtc.	0.100 ha.	597.00
8 th Year Mtc.	0.100 ha.	597.00
9 th Year Mtc.	0.100 ha.	597.00
10 th Year Mtc.	0.100 ha.	597.00
Over head expenses (5% of plantation cost) & (10% of plantation cost) Wage Enhancement.	0.100 ha.	6352.00
Total		48,698.00

5. Technical Details:-

Technical details of Compensatory Afforestation 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.. 27/4/2021

(Guramandeep Singh, P.F.S.)
Divisional Forest Officer,
Forest Division S.A.S.Nagar,
S.A.S Nagar.

Compensatory Afforestation Scheme for diversion of 0.014 hac. of forest land for construction of approach road to M/s STJ Infra for commercial Purpose/Colony at village Nabha, Tehsil Zirakpur on Zirakpur-Patiala road NH 7 Km 341.565 LHS (old NH 64 KM 2.435 RHS), under Forest Division & Distt. S.A.S. Nagar, Punjab.					
1) Diverted Forest Area = 0.014 Ha.					
2) Comp. Aff. Scheme area = 0.100 Ha.					
3) Name of Site of Plantation = Bir Hansala				Daily Wage Rate : 328/-	
4) No. of plants Planted = 100 Plants				Plants : 1000 No.	
Plantation Model For Standard Plantation under Compensatory Afforestation					
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

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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
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
16	Material and Supply	L/s			5000.00
	Sub Total				45880.96

c/s

Divisional Forest Officer
S.A.S. Nagappa

3rd Year Maintenance				
1	Cost of raising plants for 10% replacement	1 No.	100	20.00
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	1 m3	10	5963.00
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
4	Loading & Unloading of Plants	1 No.	100	2.46
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	100	1.00
6	Spreading of plants pit to pit	100 No.	100	131.20
7	Re-Planting to plants	100 No.	100	229.09
8	Spot Irrigation	100 No.	100	205.00
9	Weeding & Hoeing (thrice)	100 No.	2000	357.52
10	Hand Watering (8 Times)	100 No.	5000	205.00
11	Pruning to Plants 20%	100 No.	200	387.61
12	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8528.00
13	Repair of Barbed Wire	L/s		
14	POL & Machinery	L/s		
15	Material and Supply	L/s		
	Sub Total			42683.63
4th Year Maintenance				
1	Cost of raising plants for 5% replacement	1 No.	50	20.00
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	5963.00
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
4	Loading & Unloading of Plants	1 No.	50	2.46
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	50	1.00
6	Spreading of plants pit to pit	100 No.	50	131.20
7	Re-Planting to plants	100 No.	50	229.09
8	Spot Irrigation	100 No.	50	205.00
9	Weeding & Hoeing (thrice)	100 No.	2000	357.52
10	Hand Watering (8 Times)	100 No.	4000	205.00
11	Pruning to Plants 30%	100 No.	300	387.61
12	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	8528.00
13	Repair of Barbed Wire	L/s		
14	POL & Machinery	L/s		
15	Material and Supply	L/s		
	Sub Total			39565.59
5th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motms)	Man Year	1/10 Man Yr.	8528.00
	Sub Total			5969.60
6th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motms)	Man Year	1/10 Man Yr.	8528.00
	Sub Total			5969.60
7th Year Maintenance				
1	Watch & Ward for every 10 Ha. (10 Motms)	Man Year	1/10 Man Yr.	8528.00
	Sub Total			5969.60


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	8th Year Maintenance					
1	Watch & Ward for every 10 Ha. (10 Motmts)	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 Motmts)	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 Motmts)	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
	Comp. Aff. Scheme for 1.00 Ha.					486976.58
	Or Say					486977
	Comp. Aff. Scheme		0.100 x 486977			48698.00
	Net Present value of diverted land		0.014 x 626000			7136.00
	Total					55834.00
	Penal NPV = $0.0130 \times 626000 - 8138/12 = 678 \times 4$ month + 12% = 3038					3038.00
	Entry Point Activities (10%)					4869.80
	Grand Total					63741.80


 (Guramanpreet Singh, P.F.S.)
 Divisional Forest Officer,
 SAS Nagar.