

Full Title of the Proposal :	Diversion of 0.736 Hectare of forest land in favour of Punjab PWD B&R for Widening of Ropar Abiana Nurpur Bedi Road from 13.875 Km to 14.515 Km Length 0.64 Km in village Abiana Kalan under Rupnagar Forest Division & Distt Rupnagar (Punjab).
Acknowledgement Key at Divn. Level :	FCA 1980/Rupnagar Forest Division/2015/RD-Roads/PWD B&R Br. Rupnagar (Govt. Deptt) Proposal No. FP/PB/Road/15128/2015 submission on dated 2.9.2015

CHECK LIST SERIAL NUMBER : 17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for Compensatory Afforestation to be carried out in lieu of 0.736 Hec. of forest area to be diverted for **Widening of Ropar Abiana Nurpur Bedi Road from 13.875 Km to 14.515 Km Length 0.64 Km in village Abiana Kalan under Rupnagar forest Division & Distt Rupnagar (Punjab)**

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

- 1) Site of Comp. Aff. = Khatana Forest
- 2) Area to be afforested = 1.84 Hect.

District Rupnagar

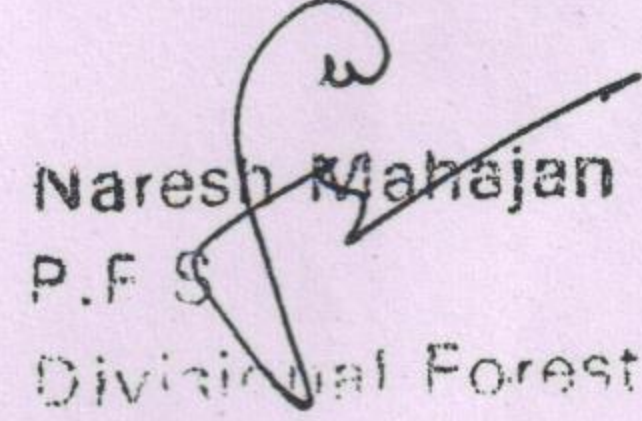
Name of Forest Division **Rupnagar**, Range – **Nurpur Bedi**

2. **Description of Area**

- i. Whether the site selected for Compensatory Afforestation is a land bank or not : **Yes, Comp. Aff. Will be carried out on**
- 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. Km approximately.**
- iv. Soil type: **Alive**
- v. Topography: a. **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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2. Schedule of Plantation Programme

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

Year	Area (Hec.)	Total Amount
Planting Year	1.84 Ha.	225100
1 st Year	1.84 Ha.	148556
2 nd Year	1.84 Ha.	117057
3 rd Year	1.84 Ha.	90422
4 th Year	1.84 Ha.	83593
5 th Year	1.84 Ha.	80069
6 th Year	1.84 Ha.	79146
7 th Year	1.84 Ha.	27600
8 th Year	1.84 Ha.	27600
9 th Year	1.84 Ha.	27600
10 th Year	1.84 Ha.	27600
G. Total		934343

3. Technical Details

Technical details of Compensatory Afforestation Scheme are as follows: -

- (a) General Details : As under
- (b) Spacement : 10' X 10' (Approximate)
- (c) Species :
- (d) Plantation Method : Degraded
- (e) Soil and Moisture Conservation Works : N.A.
- (f) Protection (Fencing, Watch man, People's Participation etc.) : Fencing
- (g) Proposed Monitoring Mechanisms: N.A.
- (h) Any other information: Nil

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Compensatory Afforestation Scheme with 10 years mtc. for diversion of 0.736 Ha. of forest land in favour of Punjab PWD B&R for widening of Ropar Abiana Nurpur Bedi Road from Km. 13.875 to 14.515 total length 0.64 Km in Village Abiana Kalan under Rupnagar Forest Division & Distt. Rupnagar (Punjab).

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- 1) Diverted Forest Area = 0.736 Ha.
- 2) Comp. Aff. Scheme Area = 1.84 Ha.
- 3) Nos. of plants will be plated = 1840 Nos.
- 4) Site of Comp. Aff. = Khatana Forest

Daily Wage Rate : 305/-
Plants : 1000 Nos. per hec.

Sr. No.	Name of Work	Unit	Unit Cost (in Rs.)	Qty.	Amount
	Nursery				
1	Cost of raising of plants including 10% failure	Nos.	12.00	1100	13200.00
	Soil Work				
1	Cutting of Kana, Lantana etc.	Ha.	16057.62	0.4	6423.05
2	Kana Stubbing 25%	Ha.	24086.58	0.25	6021.65
3	Alignment & Dagbaling	Ha.	883.16	1	883.16
4	Earth works				
	Digging of Pits 1000 X 0.5 m X 0.5 m X 0.4 m	1M3	90.99	100	9099.00
	Plantation				
1	Refilling of Pits 1000 x.50x.50x.30	% m3	2408.65	75	1806.49
2	Loading & Unloading of Plants (100+10% Wastage=1100)	100 No.	36.80	1100	404.80
3	Carriage of Plants by tractor trolly (100+10% wastage =1100 avg. distance upto 10 km.)	Per Km.	176.62	10	1766.20
4	Carriage of plants by manual labour from pit to pit	100 No.	91.98	1100	1011.78
5	Planting of Plants (1000 No. including 10% replacement)	100 No.	321.15	1100	3532.65
6	Application of Insecticide (2 Times)	100 No.	36.80	2000	736.00
7	Application of Fertilizers (2 Times)	100 No.	36.80	2000	736.00
8	Spot Irrigation	100 No.	305.00	1000	3050.00
	Maintenance				
1	Weeding & Hoeing 3 Times	100 No.	321.15	3000	9634.50
2	Rejungle Clearance (2 Times)	Per Ha.	4990.90	1	4990.90
3	Thorny protection to plants	100 No.	147.19	550	809.55
4	Cutting of dhub etc. in lines	100 Mtrs.	305.00	600	1830.00
5	Hand Watering (Ten times)	100 No.	305.00	10000	30500.00
6	Covering (25% plants) of plants	100 No.	264.95	250	662.38
7	Uncovering of plants	100 No.	29.36	250	73.40
8	Watch & Ward for every 10 Ha.	L/s			7930.00
9	Material				
	i) Insecticides / Fertilizers/Tools and Plants	L/s			7500.00
	Sub Total				112601.49

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Sr. No.	Name of Work	Unit	Unit Cost (in Rs.)	Qty.	Amount
	Ist Year Maintenance				
1	Cost of raising plants for 25% replacement	1 No.	12.00	250	3000.00
2	Reopening of Pits 250 x 0.50 x 0.50 x 0.4	1 m3	53.52	25	1338.00
3	Refilling of pits with earth in other soils 250 x 0.50 x 0.50 x 0.30	1 m3	24.95	18.75	467.81
4	Loading & Unloading of Plants	100 No.	36.80	250	92.00
5	Carriage of Plants by tractor trolly	100 No.	176.62	250	441.55
6	Carriage of plants by manual labour from pit to pit	100 No.	91.98	250	229.95
7	Re-Planting to plants	100 No.	321.15	250	802.88
8	Spot Irrigation	100 No.	305.00	250	762.50
9	Weeding & Hoeing (Three Times)	100 No.	321.15	3000	9634.50
10	Application of Insecticide (2 Times)	100 No.	36.80	2000	736.00
11	Application of Fertilizers (2 Times)	100 No.	36.80	2000	736.00
12	Hand Watering (10 Times)	100 No.	305.00	10000	30500.00
13	Rejungle Clearance (2 Times)	Per Ha.	4990.90	1.00	4990.90
14	Restubbing of Kana	Per Ha.	7359.78	0.25	1839.95
15	Watch & Ward for every 10 Ha. (10 Months)	L/s			7930.00
16	Cost of Material	L/s			7500.00
	Sub Total				71002.03
	IInd Year Maintenance				
1	Cost of raising plants for 20% replacement	1 No.	12.00	200	2400.00
2	Reopening of Pits 200 x 0.50 x 0.50 x 0.30	1 m3	53.52	15	802.80
3	Refilling of pits with earth in other soils 200 x 0.50 x 0.50 x 0.30	1 m3	24.95	15	374.25
4	Loading & Unloading of Plants	100 No.	36.80	200	73.60
5	Carriage of Plants by tractor trolly	100 No.	176.62	220	388.56
6	Carriage of plants by manual labour from pit to pit	100 No.	91.98	200	183.96
7	Re-Planting to plants	100 No.	321.15	200	642.30
8	Spot Irrigation	100 No.	305.00	200	610.00
9	Weeding & Hoeing (Twice)	100 No.	321.15	3000	9634.50
10	Hand Watering (6 Times)	100 No.	305.00	6000	18300.00
11	Rejungle Clearance (2 Times)	Per Ha.	4990.90	1.00	4990.90
12	Pruning/Singling to Plants	100 No.	183.99	300	551.97
13	Watch & Ward for every 10 Ha.	L/s			7930.00
14	Cost of Material	L/s			7000.00
	Sub Total				53882.84

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Sr. No.	Name of Work	Unit	Unit Cost (in Rs.)	Qty.	Amount
	IIIrd Year Maintenance				
1	Cost of raising plants for 10% replacement	1 No.	12.00	100	1200.00
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.30	1 m3	53.52	7.5	401.40
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	24.95	7.5	187.13
4	Loading & Unloading of Plants	100 No.	36.80	100	36.80
5	Carriage of Plants by tractor trolly	100 No.	176.62	110	194.28
6	Carriage of plants by manual labour from pit to pit	100 No.	91.98	100	91.98
7	Re-Planting to plants	100 No.	321.15	100	321.15
8	Spot Irrigation	100 No.	305.00	100	305.00
9	Weeding & Hoeing (Twice)	100 No.	321.15	3000	9634.50
10	Hand Watering (3 Times)	100 No.	305.00	3000	9150.00
11	Rejungle Clearance (2 Times)	Per Ha.	4990.90	0.60	2994.54
12	Pruning/Singling to Plants 50%	100 No.	183.99	250	459.98
13	Watch & Ward for every 10 Ha.	L/s			7930.00
14	Cost of Material	L/s			6500.00
	Sub Total				39406.75
	IVth Year Maintenance				
1	Cost of raising plants for 10% replacement	1 No.	12.00	100	1200.00
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.30	1 m3	53.52	7.5	401.40
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	24.95	7.5	187.13
4	Loading & Unloading of Plants	100 No.	36.80	100	36.80
5	Carriage of Plants by tractor trolly	100 No.	176.62	110	194.28
6	Carriage of plants by manual labour from pit to pit	100 No.	91.98	100	91.98
7	Re-Planting to plants	100 No.	321.15	100	321.15
8	Spot Irrigation	100 No.	305.00	100	305.00
9	Weeding & Hoeing (Twice)	100 No.	321.15	2000	6423.00
10	Hand Watering (3 Times)	100 No.	305.00	3000	9150.00
11	Rejungle Clearance (2 Times)	Per Ha.	4990.90	0.60	2994.54
12	Pruning/Singling to Plants 50%	100 No.	183.99	250	459.98
13	Watch & Ward for every 10 Ha.	L/s			7930.00
14	Cost of Material	L/s			6000.00
	Sub Total				35695.25


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Sr. No.	Name of Work	Unit	Unit Cost (in Rs.)	Qty.	Amount
	Vth Year Maintenance				
1	Cost of raising plants for 5% replacement	1 No.	12.00	50	600.00
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.30	1 m3	53.52	3.75	200.70
3	Refilling of pits with earth in other soils 50 x 0.50 x 0.50 x 0.30	1 m3	24.95	3.75	93.56
4	Loading & Unloading of Plants	100 No.	36.80	50	18.40
5	Carriage of Plants by tractor trolly	100 No.	176.62	55	97.14
6	Carriage of plants by manual labour from pit to pit	100 No.	91.98	50	45.99
7	Re-Planting to plants	100 No.	321.15	50	160.58
8	Spot Irrigation	100 No.	305.00	50	152.50
9	Weeding & Hoeing (Twice)	100 No.	321.15	2000	6423.00
10	Hand Watering (3 Times)	100 No.	305.00	3000	9150.00
11	Rejungle Clearance (2 Times)	Per Ha.	4990.90	0.60	2994.54
12	Pruning/Singling to Plants 50%	100 No.	183.99	225	413.98
13	Watch & Ward for every 10 Ha.	L/s			7930.00
14	Cost of Material	L/s			5500.00
	Sub Total				33780.39
	Vth Year Maintenance				
1	Cost of raising plants for 5% replacement	1 No.	12.00	50	600.00
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.30	1 m3	53.52	3.75	200.70
3	Refilling of pits with earth in other soils 50 x 0.50 x 0.50 x 0.30	1 m3	24.95	3.75	93.56
4	Loading & Unloading of Plants	100 No.	36.80	50	18.40
5	Carriage of Plants by tractor trolly	100 No.	176.62	55	97.14
6	Carriage of plants by manual labour from pit to pit	100 No.	91.98	50	45.99
7	Re-Planting to plants	100 No.	321.15	50	160.58
8	Spot Irrigation	100 No.	305.00	50	152.50
9	Weeding & Hoeing (Twice)	100 No.	321.15	2000	6423.00
10	Hand Watering (3 Times)	100 No.	305.00	3000	9150.00
11	Rejungle Clearance (2 Times)	Per Ha.	4990.90	0.60	2994.54
12	Pruning/Singling to Plants 50%	100 No.	183.99	225	413.98
13	Watch & Ward for every 10 Ha.	L/S			7930.00
14	Cost of Material	L/s			5000.00
	Sub Total				33280.39


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Sr. No.	Name of Work	Unit	Unit Cost (in Rs.)	Qty.	Amount
	<u>VIIth Year Maintenance</u>				
1	Watch & Ward/Silvicultural operation	L/s			15000.00
	Sub Total				15000.00
	<u>VIIIth Year Maintenance</u>				
1	Watch & Ward/Silvicultural operation	L/s			15000.00
	Sub Total				15000.00
	<u>IX th Year Maintenance</u>				
1	Watch & Ward/Silvicultural operation	L/s			15000.00
	Sub Total				15000.00
	<u>Xth Year Maintenance</u>				
1	Watch & Ward/Silvicultural operation	L/s			15000.00
	Sub Total				15000.00
	Sub Total				439649.14
	Fencing (5% of plantation cost)				21982.46
	Sub Total				461631.60
	Overhead charges (10% of plantation cost) POL, OE, Misc.)				46163.16
	Comp. Aff. Scheme for 1.00 Ha.				507794.76
	Comp. Aff. Scheme for	507795 x 1.84 Ha.			934343.00
	Net Present Value of diverted forest land	803000 x 0.736 Ha.			591008.00
	Grand Total				1525351.00

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