

Full Title of the project: Diversion Of 0.3843 Ha. of Forest Land for construction of 2 lane ROB on Ladwa Mustfabad Road at level Crossing LC-106 Ambala Saharanpur Railway line under forest division and Distt. Yamunanagar Haryana.

Online Proposal No. FP/HR/Road/122969/2021
Date of Proposal :

CHECK LIST SERIAL NUMBER:-18
"SCHEME FOR C.A."

Name of the Forest/Reach to be diverted
Forest Area =0.3843 hac.

Details of degraded forest land/non-forest land where C.A. is to be carried out.

Division:Yamunanagar District : Yamunanagar

Tehsil: Jagadhri

C.A. Site name : **Devdhar PF**

Area to be Afforested :- 1.700 hac.

- a) Whether the site selected for Compensatory Afforestation is a Land bank (Yes or No): **No**
- b) If the CA site is other than the land bank, reasons be given:-
In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary :-
- i) Soil type: **Sandy to Sandy Loam**
- ii) Topography a. Hilly/Undulating/Plain:**Plain**
- b. Slope:-Steep/Medium/Gentle: **Gentle**
- iii) Whether the area is bearing any root stock of vegetation:- **No**

Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up is as under ;

1. Schedule of Plantation Programme:-

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

The plantation cost is calculated for Tall Plants norms at 4m x 2.5m spacing at the wage rate of Rs. 347.08 per day as under:-

| Cost Statement Of Plantation (Tall Plants) model under Compensatory Afforestation | | | | | |
|--|-------------------------------------|------|------|-----------|---------|
| No. of Plants per ha.=500 TP , spacing=4m row to row | | | | | |
| Sr. No. | Item of Work | Unit | Qty. | Rate/Unit | Amount |
| 1st year expenditure as wage rate Rs. 347.08 per day | | | | | |
| 1 | Jungle clearance. | Ha | 0.5 | 5204.05 | 2602.03 |
| 2 | Kana/ lantana Cutting. | Ha | 0.25 | 8677 | 2169.25 |
| 3 | Dag bailing and alignment. | RK M | 2 | 242.86 | 485.72 |
| 4 | Digging of pits 500x0.6mx0.6mx0.6m. | m3 | 108 | 147.45 | 15924.6 |

| | | | | | |
|---|--|-----|----------|--------|------------------|
| 5 | Purchase of good Soil for filling in pits 500x0.6mx0.6mx0.4m. | m3 | 72 | 400 | 28800.00 |
| 6 | Carriage of Soil by hired tractor upto 5 Km including Loading , unloading . | m3 | 72 | 474.92 | 34194.24 |
| 7 | Raising of plants in nursery P.Bag Size (30cmx45cm) : 500+20% extra. | No. | 600 | 97 | 58200 |
| 8 | Loading/ Unloading of plants in tractor/cart | No. | 600 | 2.61 | 1566 |
| 9 | Carriage of plants. | No. | 600 | 21.79 | 13074 |
| 10 | Planting of seedling including 10% replacement. | No. | 550 | 13.89 | 7639.5 |
| 11 | Fencing of Plants with six stick including cutting carriage of fencing material. | No. | 500 | 52.06 | 26030 |
| 12 | Cost of fertilizer, manures, insecticides etc including application. | No. | 500 | 20 | 10000 |
| 13 | Irrigation eight times. | No. | 400 0 | 5.21 | 20840 |
| 14 | Purchase of water | No. | 400 0 | 1.27 | 5080 |
| 15 | First weeding & hoeing. | No. | 500 | 6.93 | 3465 |
| 16 | Subsequent weeding & hoeing six times | No. | 300 0 | 5.21 | 15630 |
| 17 | Grass cutting from one meter wide strip 5 Times in 500 meter length in per Ha. | m2 | 250 0 | 3.47 | 8677 |
| | Total | | | | 254377.34 |
| 18 | Added EPF @ 13% and ESI @ 3.25% of wages component | | | | 26524.73 |
| 19 | Added contractor profit @ 10% of total | | | | 25437.73 |
| | Net Total | | | | 306339.80 |
| 2nd year maintainance with 20% Replacement @ Wage rate Rs.382 per day anticipating 10% increase. | | | | | |
| 1 | Raising of plants in nursery (30cmx45cm) : 100+20% extra | No. | 120 | 100 | 12000 |
| 2 | Re-opening of pits 100x0.6mx0.6mx0.5m | m3 | 18 | 76.97 | 1385.46 |
| 3 | Loading and unloading of plants | No. | 100 | 2.89 | 289 |
| 4 | Carriage of plants | No. | 100 | 24.17 | 2417 |
| 5 | Planting of plants | No. | 100 | 15.4 | 1540 |
| 6 | Fencing of Plants with six stick including cutting carriage of fencing material. | No. | 100 | 57.31 | 5731 |
| 7 | Irrigation five times | No. | 250 0 | 5.78 | 14450 |
| 8 | Purchase of water | No. | 250 0 | 1.4 | 3500 |
| 9 | Sub. Weeding and hoeing five times | No. | 250 | 5.78 | 14450 |

| | | | | | |
|----|--|-----|-----|------|----------|
| | | | 0 | | |
| 10 | Grass cutting from one meter wide strip 4 Times in 500 meter length in per Ha. | | 200 | | |
| 11 | Repair of Fencing | m2 | 0 | 3.81 | 7620 |
| | | No. | 400 | 7.70 | 3080 |
| 12 | Cost of fertilizer, manures, insecticides etc including application. | | | | |
| | | No. | 500 | 10 | 5000 |
| | Total | | | | 71462.46 |
| 13 | Added EPF @ 13% and ESI @ 3.25% of wages component | | | | 9791.67 |
| 14 | Added contractor profit @ 10% of total | | | | 7146.25 |
| | Net Total | | | | 88400.38 |

3rd year maintainance 10% Replacement @ wage rate Rs. 420 per day

| | | | | | |
|----|--|-----|-----|-------|----------|
| 1 | Raising of plants in nursery (30cmx45cm) : 50+20% extra | | 60 | 110 | 6600 |
| 2 | Re-opening of pits 50x0.6mx0.6mx0.5m | | 9 | 67.9 | 611.1 |
| 3 | Loading and unloading of plants | | 50 | 2.55 | 127.5 |
| 4 | Carriage of plants | | 50 | 21.32 | 1066 |
| 5 | Planting of plants | | 50 | 13.59 | 679.5 |
| 6 | Fencing of Plants with six stick including cutting carriage of fencing material. | No. | 100 | 63.04 | 6304 |
| 7 | Irrigation four times | No. | 200 | 0 | 5.1 |
| 8 | Purchase of water | No. | 200 | 0 | 1.54 |
| 9 | Weeding and hoeing four time | No. | 200 | 0 | 5.1 |
| 10 | Pruning of 1/3 Lower portion of Plants | No. | 400 | 6.37 | 2548 |
| 11 | Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha. | m2 | 100 | 0 | 4.19 |
| 12 | Cost of fertilizer, manures, insecticides etc including application. | No. | 500 | 10 | 5000 |
| | Total | | | | 50606.1 |
| 13 | Added EPF @ 13% and ESI @ 3.25% of wages component | | | | 6716.55 |
| 14 | Added contractor profit @ 10% of total | | | | 5060.61 |
| | Net Total | | | | 62383.26 |

4th year maintainance 10% Replacement @ wage rate Rs.462 per day

| | | | | | |
|---|--------------------------------------|--|-----|-------|--------|
| 1 | Raising of plants in nursery | | 60 | 110 | 6600 |
| 2 | Re-opening of pits 50x0.6mx0.6mx0.5m | | 5.5 | 98.36 | 540.98 |
| 3 | Loading and unloading of plants | | 50 | 3.69 | 184.5 |
| 4 | Carriage of plants | | 50 | 30.88 | 1544 |
| 5 | Planting of plants | | 50 | 19.69 | 984.5 |

| | | | | | |
|----|--|-----|-----|-------|----------|
| 6 | Fencing of Plants with six stick including cutting carriage of fencing material. | No. | 50 | 69.34 | 3467 |
| 7 | Irrigation two times | No. | 100 | | |
| | | No. | 0 | 7.39 | 7390 |
| 8 | Purchase of water | No. | 100 | | |
| | | No. | 0 | 1.7 | 1700 |
| 9 | Weeding and hoeing two time | No. | 100 | | |
| | | No. | 0 | 7.39 | 7390 |
| 10 | Pruning of 1/3 Lower portion of Plants | No. | 400 | 7.37 | 2948 |
| 11 | Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha. | m2 | 100 | | |
| | | | 0 | 4.60 | 4600 |
| 12 | Cost of fertilizer, manures, insecticides etc including application. | No. | 500 | 10 | 5000 |
| | Total | | | | 42348.98 |
| 14 | Added EPF @ 13% and ESI @ 3.25% of wages component | | | | 5512.08 |
| 15 | Added contractor profit @ 10% of total | | | | 4234.9 |
| | Net Total | | | | 52095.96 |

5th year maintainance at wage rate Rs.508 per day

| | | | | | |
|---|--|-----|-----|------|----------|
| 1 | Irrigation Two times | No. | 100 | | |
| | | No. | 0 | 8.11 | 8110 |
| 2 | Purchase of water | No. | 100 | | |
| | | No. | 0 | 1.87 | 1870 |
| 3 | Pruning of 1/3 Lower portion of Plants | No. | 400 | 8.10 | 3240 |
| 4 | Grass cutting from one meter wide strip 1 Times in 500 meter length in per Ha. | m2 | 500 | 5.06 | 2530 |
| | Total | | | | 15750 |
| 5 | Added EPF @ 13% and ESI @ 3.25% of wages component | | | | 937.63 |
| 6 | Added contractor profit @ 10% of total | | | | 1575 |
| | Net Total | | | | 18262.63 |

6th year maintainance at wage rate Rs.559 per day

| | | | | | |
|---|---|-----|--|--|---------|
| 1 | Misc. Expenditure on Cleaning, Pruning and thinning | L/S | | | 6500 |
| | Total | | | | 6500 |
| 2 | Added EPF @ 13% and ESI @ 3.25% of wages component | | | | 1056.25 |
| 3 | Added contractor profit @ 10% of total | | | | 650 |
| | Net Total | | | | 8206.25 |

7th year maintainance at wage rate Rs. 615 per day

| | | | | | |
|---|---|-----|--|--|---------|
| 1 | Misc. Expenditure on Cleaning, Pruning and thinning | L/S | | | 6500 |
| | Total | | | | 6500 |
| 2 | Added EPF @ 13% and ESI @ 3.25% of wages component | | | | 1056.25 |

| | | | | | |
|---|--|--|--|--|----------------|
| 3 | Added contractor profit @ 10% of total | | | | 650 |
| | Net Total | | | | 8206.25 |

8th year maintainance at wage rate Rs. 677 per day

| | | | | | |
|---|---|-----|--|--|-------------|
| 1 | Misc. Expenditure on Cleaning, Pruning and thinning | L/S | | | 6500 |
| | Total | | | | 6500 |

| | | | | | |
|---|--|--|--|--|----------------|
| 2 | Added EPF @ 13% and ESI @ 3.25% of wages component | | | | 1056.25 |
| 3 | Added contractor profit @ 10% of total | | | | 650 |
| | Net Total | | | | 8206.25 |

9th year maintainance at wage rate Rs. 745 per day

| | | | | | |
|---|---|-----|--|--|-------------|
| 1 | Misc. Expenditure on Cleaning, Pruning and thinning | L/S | | | 6500 |
| | Total | | | | 6500 |

| | | | | | |
|---|--|--|--|--|----------------|
| 2 | Added EPF @ 13% and ESI @ 3.25% of wages component | | | | 1056.25 |
| 3 | Added contractor profit @ 10% of total | | | | 650 |
| | Net Total | | | | 8206.25 |

10th year maintainance at wage rate Rs. 820 per day

| | | | | | |
|---|---|-----|--|--|-------------|
| 1 | Misc. Expenditure on Cleaning, Pruning and thinning | L/S | | | 6500 |
| | Total | | | | 6500 |

| | | | | | |
|---|--|--|--|--|----------------|
| 2 | Added EPF @ 13% and ESI @ 3.25% of wages component | | | | 1056.25 |
| 3 | Added contractor profit @ 10% of total | | | | 650 |
| | Net Total | | | | 8206.25 |

Abstract of cost norms

| | Year of Plantation | Cost(Rs.) | Cost per plant(Rs.) |
|----|------------------------|------------------|---------------------|
| 1 | 1st year plantation | 306339.80 | 612.68 |
| 2 | 2nd year maintainance | 88400.38 | 176.80 |
| 3 | 3rd year maintainance | 62383.26 | 124.77 |
| 4 | 4th year maintainance | 52095.96 | 104.19 |
| 5 | 5th year maintainance | 18262.63 | 36.53 |
| 6 | 6th year maintainance | 8206.25 | 16.41 |
| 7 | 7th year maintainance | 8206.25 | 16.41 |
| 8 | 8th year maintainance | 8206.25 | 16.41 |
| 9 | 9th year maintainance | 8206.25 | 16.41 |
| 10 | 10th year maintainance | 8206.25 | 16.41 |
| | Total | 568513.28 | 1137.03 |

Area to be Diverted : 0.3843 ha.

No. of Trees to be felled : 170

No. of Plants to be damaged : 0

Area to be planted under normal CA : 1.700 (Ten Time the Trees to be Felled)

Plants to be Planted under normal CA : 1700 Nos.

Additional C.A. in lieu of plants to be damaged (Double the plants to be damaged)= 0

Area to planted under Addl. CA : 0 (@ 1000 plants per ha.)

Total No. of plants to be planted (CA+Addl.CA) : 1700

Total Area to be planted (CA+Addl. CA) :1.700 ha. Or say 1700 Plants

(Succeeding years maintenance has been computed taking into account the anticipated increase in wage rates @ 10% per year.)

| S.No | DESCRIPTION | | RATE | T.Amt. (Rs.) |
|------|--|--------------|-----------------------|----------------|
| A | Compensatory Afforestation Charges | No. of Plant | | |
| | (1) 1 st Year cost of afforestation | 1700 | 612.68 | 1041556.00 |
| | (2) 2 nd Year maintenance | 1700 | 176.80 | 300560.00 |
| | (3) 3 rd Year maintenance | 1700 | 124.77 | 212109.00 |
| | (4) 4 th Year maintenance | 1700 | 104.19 | 177123.00 |
| | (5) 5 th Year maintenance | 1700 | 36.53 | 62101.00 |
| | (6) 6 th Year maintenance | 1700 | 16.41 | 27897.00 |
| | (7) 7 th Year maintenance | 1700 | 16.41 | 27897.00 |
| | (8) 8 th Year maintenance | 1700 | 16.41 | 27897.00 |
| | (9) 9 th Year maintenance | 1700 | 16.41 | 27897.00 |
| | (10) 10 th Year maintenance | 1700 | 16.41 | 27897.00 |
| | Total Charges | | | 1932934 |
| | Supervisory / Overhead / Miscellaneous Charges | | 10% on the CA charges | 193293 |
| | Total (A) C.A. Charge | | | 2126227 |
| B | Additional Compensatory Afforestation Charges | | | |
| | (1) 1 st Year cost of afforestation | 0 | 612.68 | 0 |
| | (2) 2 nd Year maintenance | 0 | 176.80 | 0 |
| | (3) 3 rd Year maintenance | 0 | 124.77 | 0 |
| | (4) 4 th Year maintenance | 0 | 104.19 | 0 |
| | (5) 5 th Year maintenance | 0 | 36.53 | 0 |
| | (6) 6 th Year maintenance | 0 | 16.41 | 0 |
| | (7) 7 th Year maintenance | 0 | 16.41 | 0 |
| | (8) 8 th Year maintenance | 0 | 16.41 | 0 |
| | (9) 9 th Year maintenance | 0 | 16.41 | 0 |
| | (10) 10 th Year maintenance | 0 | 16.41 | 0 |
| | Total (B) Addl. C.A. Charges | | | 0 |
| C | Penal C.A. | | - | 0 |

| Catchment Area Treatment | | | |
|--------------------------|--|---------------------|-----------------------|
| D | Soil and Moisture Conservation charges | | 30% of the Total CA |
| | | | 637868 |
| | Total (D) | | 637868 |
| E | Safety Zone (if required) | | |
| F | Additional Charges (if required) | Qty | Rate |
| | Total (F) | | 0 |
| G | Net Present Value of Forest Land to be diverted | | Rs. 887000/- per ha. |
| | | | 340874 |
| H | Felling charges | Vol. M ³ | Rs. 1400 |
| | | 42.40 | /- per m ³ |
| | | | 59360 |
| I | | | |
| | Grand Total (A+B+C+D+E+F+G+H+I) to be deposited in CAMPA Fund | | 3164329 |

2. **Technical details:-**

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Details:- Plantation will be done with six stick fencing.
- Spacing:- 4 × 2.5 meter
- Species:- Neem, Pahari Papri, Shisham, Jamun, Gullar, Arjun
- Plantation Method :- Tall Plants Plantation
- Soil and Moisture Conservation Works
- Protection (Fencing, Watch man, People's Participation etc.): - **Watchman**
- Proposed Monitoring Mechanism:- **(M&E)**,
- Any Other information:- Nil.

Place:

Dated :

23/06
 Dy. Conservator of Forests,
 Yamunanagar Forest Division,
 Yamunanagar

Note : CF (T) should countersign this C.A. scheme if area to be afforested is more than 5 hectare.