

**Full Title of the project:** Diversion of 0.0242 hac. of Forest land for access to IOC Ltd. Retail Outlet on NH-73A (between Jagadhri Bus Stand to Aggarsen Chowk road) at KM 0.243 (LHS), in Village Jagadhri, under forest Division and Distt. Yamuna Nagar. Haryana.

Online Proposal No. FP/HR/Approach/149203/2021  
Date of Proposal :

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

**Name of the Forest/Reach to be diverted**  
**Forest Area =0.0242 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 **Kalanour RF**

- Area to be Afforested :- 0.100 hac.
- Whether the site selected for Compensatory Afforestation is a Land bank (Yes or No): **No**
  - 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 :-
  - Soil type: **Sandy to Sandy Loam**
  - Topography a. Hilly/Undulating/Plain:**Plain**
  - Slope:-Steep/Medium/Gentle: **Gentle**
  - 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. 363.77 per day as under:-

| <b>Cost Statement Of Plantation (Tall Plants) model under Compensatory Afforestation</b> |                                     |      |      |           |          |
|------------------------------------------------------------------------------------------|-------------------------------------|------|------|-----------|----------|
| No. of Plants per ha.=500 TP , spacing=4m Row to Row                                     |                                     |      |      |           |          |
| Sr. No.                                                                                  | Item of Work                        | Unit | Qty. | Rate/Unit | Amount   |
| <b>1st year expenditure as wage rate Rs. 363.77 per day</b>                              |                                     |      |      |           |          |
| 1                                                                                        | Jungle clearance.                   | Ha   | 0.5  | 5454.30   | 2727.15  |
| 2                                                                                        | Kana/ lantana Cutting.              | Ha   | 0.25 | 9094.25   | 2273.56  |
| 3                                                                                        | Dag bailing and alignment.          | RK M | 2    | 254.54    | 509.08   |
| 4                                                                                        | Digging of pits 500x0.6mx0.6mx0.6m. | m3   | 108  | 154.54    | 16690.36 |

|    |                                                                                  |     |          |        |                  |
|----|----------------------------------------------------------------------------------|-----|----------|--------|------------------|
| 5  | Purchase of good Soil for filling in pits 500x0.6mx0.6mx0.4m.                    | m3  | 72       | 419.23 | 30184.90         |
| 6  | Carriage of Soil by hired tractor upto 5 Km including Loading , unloading .      | m3  | 72       | 497.76 | 35838.53         |
| 7  | Raising of plants in nursery P.Bag Size (30cmx45cm) : 500+20% extra.             | No. | 600      | 101.66 | 60998.66         |
| 8  | Loading/ Unloading of plants in tractor/cart                                     | No. | 600      | 2.74   | 1641.3           |
| 9  | Carriage of plants.                                                              | No. | 600      | 22.84  | 13702.69         |
| 10 | Planting of seedling including 10% replacement.                                  | No. | 550      | 14.56  | 8006.86          |
| 11 | Fencing of Plants with six stick including cutting carriage of fencing material. | No. | 500      | 54.56  | 27281.7          |
| 12 | Cost of fertilizer, manures, insecticides etc including application.             | No. | 500      | 20.96  | 10480.87         |
| 13 | Irrigation eight times.                                                          | No. | 400<br>0 | 5.46   | 21842.13         |
| 14 | Purchase of water                                                                | No. | 400<br>0 | 1.33   | 5324.28          |
| 15 | First weeding & hoeing.                                                          | No. | 500      | 7.26   | 3631.62          |
| 16 | Subsequent weeding & hoeing six times                                            | No. | 300<br>0 | 5.46   | 16381.6          |
| 17 | Grass cutting from one meter wide strip 5 Times in 500 meter length in per Ha.   | m2  | 250<br>0 | 3.64   | 9094.25          |
|    | <b>Total</b>                                                                     |     |          |        | <b>266609.54</b> |
| 18 | Added EPF @ 13% and ESI @ 3.25% of wages component                               |     |          |        | 27800.22         |
| 19 | Added contractor profit @ 10% of total                                           |     |          |        | 26660.95         |
|    | <b>Net Total</b>                                                                 |     |          |        | <b>321070.71</b> |

**2nd year maintainance with 20% Replacement @ Wage rate Rs.400.15 per day anticipating 10% increase.**

|   |                                                                                  |     |          |        |          |
|---|----------------------------------------------------------------------------------|-----|----------|--------|----------|
| 1 | Raising of plants in nursery (30cmx45cm) : 100+20% extra                         | No. | 120      | 104.75 | 12570.16 |
| 2 | Re-opening of pits 100x0.6mx0.6mx0.5m                                            | m3  | 18       | 80.63  | 1451.287 |
| 3 | Loading and unloading of plants                                                  | No. | 100      | 3.03   | 302.7313 |
| 4 | Carriage of plants                                                               | No. | 100      | 25.32  | 2531.839 |
| 5 | Planting of plants                                                               | No. | 100      | 16.13  | 1613.17  |
| 6 | Fencing of Plants with six stick including cutting carriage of fencing material. | No. | 100      | 60.03  | 6003.3   |
| 7 | Irrigation five times                                                            | No. | 250<br>0 | 6.05   | 15136.56 |
| 8 | Purchase of water                                                                | No. | 250<br>0 | 1.47   | 3666.3   |
| 9 | Sub. Weeding and hoeing five times                                               | No. | 250      | 6.05   | 15136.56 |



|    |                                                                                |     |      |       |          |
|----|--------------------------------------------------------------------------------|-----|------|-------|----------|
|    |                                                                                |     | 0    |       |          |
| 10 | Grass cutting from one meter wide strip 4 Times in 500 meter length in per Ha. | m2  | 2000 | 4.00  | 8003     |
| 11 | Repair of Fencing                                                              | No. | 400  | 8.07  | 3226.34  |
| 12 | Cost of fertilizer, manures, insecticides etc including application.           | No. | 500  | 10.48 | 5237.57  |
|    | Total                                                                          |     |      |       | 74878.82 |
| 13 | Added EPF @ 13% and ESI @ 3.25% of wages component                             |     |      |       | 10260.31 |
| 14 | Added contractor profit @ 10% of total                                         |     |      |       | 7487.88  |
|    | Net Total                                                                      |     |      |       | 92627.02 |

**3rd year maintainance 10% Replacement @ wage rate Rs. 440.17 per day**

|    |                                                                                  |     |      |        |          |
|----|----------------------------------------------------------------------------------|-----|------|--------|----------|
| 1  | Raising of plants in nursery (30cmx45cm) : 50+20% extra                          |     | 60   | 115.28 | 6916.957 |
| 2  | Re-opening of pits 50x0.6mx0.6mx0.5m                                             |     | 9    | 71.16  | 640.4474 |
| 3  | Loading and unloading of plants                                                  |     | 50   | 2.67   | 133.623  |
| 4  | Carriage of plants                                                               |     | 50   | 22.34  | 1117.193 |
| 5  | Planting of plants                                                               |     | 50   | 14.24  | 712.1322 |
| 6  | Fencing of Plants with six stick including cutting carriage of fencing material. | No. | 100  | 66.07  | 6606.74  |
| 7  | Irrigation four times                                                            | No. | 2000 | 5.34   | 10689.84 |
| 8  | Purchase of water                                                                | No. | 2000 | 1.61   | 3227.91  |
| 9  | Weeding and hoeing four time                                                     | No. | 2000 | 5.34   | 10689.84 |
| 10 | Pruning of 1/3 Lower portion of Plants                                           | No. | 400  | 6.68   | 2670.365 |
| 11 | Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha.   | m2  | 1000 | 4.40   | 4401.7   |
| 12 | Cost of fertilizer, manures, insecticides etc including application.             | No. | 500  | 10.48  | 5240.12  |
|    | Total                                                                            |     |      |        | 53046.87 |
| 13 | Added EPF @ 13% and ESI @ 3.25% of wages component                               |     |      |        | 7040.8   |
| 14 | Added contractor profit @ 10% of total                                           |     |      |        | 5304.69  |
|    | Net Total                                                                        |     |      |        | 65392.36 |

**4th year maintainance 10% Replacement @ wage rate Rs.484.19 per day**

|   |                                      |  |     |        |          |
|---|--------------------------------------|--|-----|--------|----------|
| 1 | Raising of plants in nursery         |  | 60  | 115.28 | 6917     |
| 2 | Re-opening of pits 50x0.6mx0.6mx0.5m |  | 5.5 | 103.08 | 566.9634 |
| 3 | Loading and unloading of plants      |  | 50  | 3.87   | 193.3616 |
| 4 | Carriage of plants                   |  | 50  | 32.36  | 1618.159 |
| 5 | Planting of plants                   |  | 50  | 20.64  | 1031.786 |

|                                                              |                                                                                  |     |          |       |          |
|--------------------------------------------------------------|----------------------------------------------------------------------------------|-----|----------|-------|----------|
| 6                                                            | Fencing of Plants with six stick including cutting carriage of fencing material. | No. | 50       | 72.67 | 3633.52  |
| 7                                                            | Irrigation two times                                                             | No. | 100<br>0 | 7.74  | 7744.944 |
| 8                                                            | Purchase of water                                                                | No. | 100<br>0 | 1.78  | 1781.65  |
| 9                                                            | Weeding and hoeing two time                                                      | No. | 100<br>0 | 7.74  | 7744.944 |
| 10                                                           | Pruning of 1/3 Lower portion of Plants                                           | No. | 400      | 7.72  | 3089.593 |
| 11                                                           | Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha.   | m2  | 100<br>0 | 4.84  | 4841.9   |
| 12                                                           | Cost of fertilizer, manures, insecticides etc including application.             | No. | 500      | 10.48 | 5240.15  |
|                                                              | Total                                                                            |     |          |       | 44403.97 |
| 14                                                           | Added EPF @ 13% and ESI @ 3.25% of wages component                               |     |          |       | 5780.23  |
| 15                                                           | Added contractor profit @ 10% of total                                           |     |          |       | 4440.4   |
|                                                              | Net Total                                                                        |     |          |       | 54624.6  |
| <b>5th year maintainance at wage rate Rs.532.60 per day</b>  |                                                                                  |     |          |       |          |
| 1                                                            | Irrigation Two times                                                             | No. | 100<br>0 | 8.50  | 8502.728 |
| 2                                                            | Purchase of water                                                                | No. | 100<br>0 | 1.96  | 1960.56  |
| 3                                                            | Pruning of 1/3 Lower portion of Plants                                           | No. | 400      | 8.49  | 3396.898 |
| 4                                                            | Grass cutting from one meter wide strip 1 Times in 500 meter length in per Ha.   | m2  | 500      | 5.33  | 2663     |
|                                                              | Total                                                                            |     |          |       | 16523.19 |
| 5                                                            | Added EPF @ 13% and ESI @ 3.25% of wages component                               |     |          |       | 984.73   |
| 6                                                            | Added contractor profit @ 10% of total                                           |     |          |       | 1652.32  |
|                                                              | Net Total                                                                        |     |          |       | 19160.24 |
| <b>6th year maintainance at wage rate Rs.644.45 per day</b>  |                                                                                  |     |          |       |          |
| 1                                                            | Misc. Expenditure on Cleaning, Pruning and thinning                              | L/S |          |       | 7500     |
|                                                              | Total                                                                            |     |          |       | 7500     |
| 2                                                            | Added EPF @ 13% and ESI @ 3.25% of wages component                               |     |          |       | 1218.75  |
| 3                                                            | Added contractor profit @ 10% of total                                           |     |          |       | 750      |
|                                                              | Net Total                                                                        |     |          |       | 9468.75  |
| <b>7th year maintainance at wage rate Rs. 708.90 per day</b> |                                                                                  |     |          |       |          |
| 1                                                            | Misc. Expenditure on Cleaning, Pruning and thinning                              | L/S |          |       | 7500     |
|                                                              | Total                                                                            |     |          |       | 7500     |
| 2                                                            | Added EPF @ 13% and ESI @ 3.25% of wages component                               |     |          |       | 1218.75  |



|                                                                |                                                     |                  |  |                            |                |
|----------------------------------------------------------------|-----------------------------------------------------|------------------|--|----------------------------|----------------|
| 3                                                              | Added contractor profit @ 10% of total              |                  |  |                            | 750            |
|                                                                | <b>Net Total</b>                                    |                  |  |                            | <b>9468.75</b> |
| <b>8th year maintainance at wage rate Rs. 779.79 per day</b>   |                                                     |                  |  |                            |                |
| 1                                                              | Misc. Expenditure on Cleaning, Pruning and thinning | L/S              |  |                            | 7500           |
|                                                                | <b>Total</b>                                        |                  |  |                            | <b>7500</b>    |
| 2                                                              | Added EPF @ 13% and ESI @ 3.25% of wages component  |                  |  |                            | 1218.75        |
| 3                                                              | Added contractor profit @ 10% of total              |                  |  |                            | 750            |
|                                                                | <b>Net Total</b>                                    |                  |  |                            | <b>9468.75</b> |
| <b>9th year maintainance at wage rate Rs.857.77 per day</b>    |                                                     |                  |  |                            |                |
| 1                                                              | Misc. Expenditure on Cleaning, Pruning and thinning | L/S              |  |                            | 7500           |
|                                                                | <b>Total</b>                                        |                  |  |                            | <b>7500</b>    |
| 2                                                              | Added EPF @ 13% and ESI @ 3.25% of wages component  |                  |  |                            | 1218.75        |
| 3                                                              | Added contractor profit @ 10% of total              |                  |  |                            | 750            |
|                                                                | <b>Net Total</b>                                    |                  |  |                            | <b>9468.75</b> |
| <b>10th year maintainance at wage rate Rs. 943.555 per day</b> |                                                     |                  |  |                            |                |
| 1                                                              | Misc. Expenditure on Cleaning, Pruning and thinning | L/S              |  |                            | 7500           |
|                                                                | <b>Total</b>                                        |                  |  |                            | <b>7500</b>    |
| 2                                                              | Added EPF @ 13% and ESI @ 3.25% of wages component  |                  |  |                            | 1218.75        |
| 3                                                              | Added contractor profit @ 10% of total              |                  |  |                            | 750            |
|                                                                | <b>Net Total</b>                                    |                  |  |                            | <b>9468.75</b> |
| <b>Abstract of cost norms</b>                                  |                                                     |                  |  |                            |                |
|                                                                | <b>Year of Plantation</b>                           | <b>Cost(Rs.)</b> |  | <b>Cost per plant(Rs.)</b> |                |
| 1                                                              | 1st year plantation                                 | 321070.71        |  | 642.14                     |                |
| 2                                                              | 2nd year maintainance                               | 92627.02         |  | 185.25                     |                |
| 3                                                              | 3rd year maintainance                               | 65392.36         |  | 130.78                     |                |
| 4                                                              | 4th year maintainance                               | 54624.60         |  | 109.25                     |                |
| 5                                                              | 5th year maintainance                               | 19160.24         |  | 38.32                      |                |
| 6                                                              | 6th year maintainance                               | 9468.75          |  | 18.94                      |                |
| 7                                                              | 7th year maintainance                               | 9468.75          |  | 18.94                      |                |
| 8                                                              | 8th year maintainance                               | 9468.75          |  | 18.94                      |                |
| 9                                                              | 9th year maintainance                               | 9468.75          |  | 18.94                      |                |
| 10                                                             | 10th year maintainance                              | 9468.75          |  | 18.94                      |                |
|                                                                | <b>Total</b>                                        | <b>600218.68</b> |  | <b>1200.44</b>             |                |

Area to be Diverted : 0.0242 ha.

No. of Trees to be felled : 8

No. of Plants to be damaged : 0

Area to be planted under normal CA : 0.100 ha. (Double the area to be Diverted)

Plants to be Planted under normal CA : 100 Nos.

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

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

**Total No. of plants to be planted (CA+Addl.CA) : 100**

**Total Area to be planted (CA+Addl. CA) :0.100 ha. Or say 100 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 <sup>st</sup> Year cost of afforestation       | 100          | 642.14                | 64214.00      |
|      | (2) 2 <sup>nd</sup> Year maintenance                 | 100          | 185.25                | 18525.00      |
|      | (3) 3 <sup>rd</sup> Year maintenance                 | 100          | 130.78                | 13078.00      |
|      | (4) 4 <sup>th</sup> Year maintenance                 | 100          | 109.25                | 10925.00      |
|      | (5) 5 <sup>th</sup> Year maintenance                 | 100          | 38.32                 | 3832.00       |
|      | (6) 6 <sup>th</sup> Year maintenance                 | 100          | 18.94                 | 1894.00       |
|      | (7) 7 <sup>th</sup> Year maintenance                 | 100          | 18.94                 | 1894.00       |
|      | (8) 8 <sup>th</sup> Year maintenance                 | 100          | 18.94                 | 1894.00       |
|      | (9) 9 <sup>th</sup> Year maintenance                 | 100          | 18.94                 | 1894.00       |
|      | (10) 10 <sup>th</sup> Year maintenance               | 100          | 18.94                 | 1894.00       |
|      | Total Charges                                        |              |                       | 120044        |
|      | Supervisory / Overhead / Miscellaneous Charges       |              | 10% on the CA charges | 12004         |
|      | <b>Total (A) C.A. Charge</b>                         |              |                       | <b>132048</b> |
| B    | <b>Additional Compensatory Afforestation Charges</b> |              |                       |               |
|      | (1) 1 <sup>st</sup> Year cost of afforestation       | 0            | 642.14                | 0             |
|      | (2) 2 <sup>nd</sup> Year maintenance                 | 0            | 185.25                | 0             |
|      | (3) 3 <sup>rd</sup> Year maintenance                 | 0            | 130.78                | 0             |
|      | (4) 4 <sup>th</sup> Year maintenance                 | 0            | 109.25                | 0             |
|      | (5) 5 <sup>th</sup> Year maintenance                 | 0            | 38.32                 | 0             |
|      | (6) 6 <sup>th</sup> Year maintenance                 | 0            | 18.94                 | 0             |
|      | (7) 7 <sup>th</sup> Year maintenance                 | 0            | 18.94                 | 0             |
|      | (8) 8 <sup>th</sup> Year maintenance                 | 0            | 18.94                 | 0             |
|      | (9) 9 <sup>th</sup> Year maintenance                 | 0            | 18.94                 | 0             |
|      | (10) 10 <sup>th</sup> Year maintenance               | 0            | 18.94                 | 0             |
|      | <b>Total (B) Addl. C.A. Charges</b>                  |              |                       | <b>0</b>      |
| C    | Penal C.A.                                           |              | -                     | 0             |

| Catchment Area Treatment |                                                                      |                     |                       |
|--------------------------|----------------------------------------------------------------------|---------------------|-----------------------|
| D                        | Soil and Moisture Conservation charges                               |                     | 30% of the Total CA   |
|                          |                                                                      |                     | 39614                 |
|                          | <b>Total (D)</b>                                                     |                     | 39614                 |
| E                        | Safety Zone (if required)                                            |                     |                       |
| F                        | <b>Additional Charges (if required)</b>                              | <b>Qty</b>          | <b>Rate</b>           |
|                          | <b>Total (F)</b>                                                     |                     | <b>0</b>              |
| G                        | Net Present Value of Forest Land to be diverted                      |                     | Rs. 887000/- per ha.  |
| H                        | Felling charges                                                      | Vol. M <sup>3</sup> | Rs. 1400              |
|                          |                                                                      | 2.38                | /- per m <sup>3</sup> |
| I                        | Other Charges                                                        |                     |                       |
|                          | <b>Grand Total (A+B+C+D+E+F+G+H+I) to be deposited in CAMPA Fund</b> |                     | <b>196459</b>         |

## 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 :

16/12  
 Dy. Conservator of Forests,  
 Yamuna Nagar Forest Division,  
 Yamuna Nagar.

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