

Full Title of the project: Diversion of 0.0649 ha. of Forest land for access to the Proposed Retail Outlet of BPC Ltd. Village Harnaul on Topra- Saharanpur Bye Pass Road under forest Division and Distt. Yamuna Nagar. Haryana.

Online Proposal No. FP/HR/Approach/148940/2021
Date of Proposal :

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

Name of the Forest/Reach to be diverted
Forest Area =0.0649 hac.

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

Division: **Yamunanagar District : Yamunanagar**

Tehsil: **Chhachhrauli**

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

Area to be Afforested :- 0.180 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. 388.42 per day as under:-

Cost Statement Of Plantation (Tall Plants) model under Compensatory Afforestation					
No. of Plants per ha.=500 TP , spacing=4m plant to plant					
Sr. No.	Item of Work	Unit	Qty.	Rate/Unit	Amount
1st year expenditure as wage rate Rs. 388.42 per day					
1	Jungle clearance.	Ha	0.5	5823.89	2911.95
2	Kana/ lantana Cutting.	Ha	0.25	9710.50	2427.63
3	Dag bailing and alignment.	RK M	2	271.79	543.57
4	Digging of pits 500x0.6mx0.6mx0.6m.	m3	108	165.01	17821.35

5	Purchase of good Soil for filling in pits 500x0.6mx0.6mx0.4m.	m3	72	447.64	32230.31
6	Carriage of Soil by hired tractor upto 5 Km including Loading , unloading .	m3	72	531.49	38267.05
7	Raising of plants in nursery P.Bag Size (30cmx45cm) : 500+20% extra.	No.	600	108.55	65132.08
8	Loading/ Unloading of plants in tractor/cart	No.	600	2.92	1752.52
9	Carriage of plants.	No.	600	24.39	14631.22
10	Planting of seedling including 10% replacement.	No.	550	15.54	8549.43
11	Fencing of Plants with six stick including cutting carriage of fencing material.	No.	500	58.26	29130.38
12	Cost of fertilizer, manures, insecticides etc including application.	No.	500	22.38	11191.08
13	Irrigation eight times.	No.	400 0	5.83	23322.21
14	Purchase of water	No.	400 0	1.42	5685.07
15	First weeding & hoeing.	No.	500	7.76	3877.71
16	Subsequent weeding & hoeing six times	No.	300 0	5.83	17491.66
17	Grass cutting from one meter wide strip 5 Times in 500 meter length in per Ha.	m2	250 0	3.88	9710.5
	Total				284675.72
18	Added EPF @ 13% and ESI @ 3.25% of wages component				29684.04
19	Added contractor profit @ 10% of total				28467.57
	Net Total				342827.33

2nd year maintainance with 20% Replacement @ Wage rate Rs.427.26 per day anticipating 10% increase.

1	Raising of plants in nursery (30cmx45cm) : 100+20% extra	No.	120	111.85	13421.78
2	Re-opening of pits 100x0.6mx0.6mx0.5m	m3	18	86.09	1549.612
3	Loading and unloading of plants	No.	100	3.23	323.2412
4	Carriage of plants	No.	100	27.03	2703.37
5	Planting of plants	No.	100	17.22	1722.462
6	Fencing of Plants with six stick including cutting carriage of fencing material.	No.	100	64.10	6410.02
7	Irrigation five times	No.	250 0	6.46	16162.06
8	Purchase of water	No.	250 0	1.57	3914.69
9	Sub. Weeding and hoeing five times	No.	250	6.46	16162.06

			0		
10	Grass cutting from one meter wide strip 4 Times in 500 meter length in per Ha.	m2	2000	4.27	8545.2
11	Repair of Fencing	No.	400	8.61	3444.924
12	Cost of fertilizer, manures, insecticides etc including application.	No.	500	11.18	5592.41
	Total				79951.83
13	Added EPF @ 13% and ESI @ 3.25% of wages component				10955.44
14	Added contractor profit @ 10% of total				7995.18
	Net Total				98902.45
3rd year maintainance 10% Replacement @ wage rate Rs. 469.99 per day					
1	Raising of plants in nursery (30cmx45cm) : 50+20% extra		60	123.09	7385.557
2	Re-opening of pits 50x0.6mx0.6mx0.5m		9	75.98	683.8355
3	Loading and unloading of plants		50	2.85	142.6755
4	Carriage of plants		50	23.86	1192.879
5	Planting of plants		50	15.21	760.3767
6	Fencing of Plants with six stick including cutting carriage of fencing material.	No.	100	70.54	7054.33
7	Irrigation four times	No.	2000	5.71	11414.04
8	Purchase of water	No.	2000	1.72	3446.59
9	Weeding and hoeing four time	No.	2000	5.71	11414.04
10	Pruning of 1/3 Lower portion of Plants	No.	400	7.13	2851.273
11	Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha.	m2	1000	4.70	4699.9
12	Cost of fertilizer, manures, insecticides etc including application.	No.	500	11.19	5595.12
	Total				56640.62
13	Added EPF @ 13% and ESI @ 3.25% of wages component				7517.8
14	Added contractor profit @ 10% of total				5664.06
	Net Total				69822.48
4th year maintainance 10% Replacement @ wage rate Rs.516.99 per day					
1	Raising of plants in nursery		60	123.09	7385.571
2	Re-opening of pits 50x0.6mx0.6mx0.5m		5.5	110.07	605.3707
3	Loading and unloading of plants		50	4.13	206.4603
4	Carriage of plants		50	34.56	1727.776
5	Planting of plants		50	22.03	1101.681

6	Fencing of Plants with six stick including cutting carriage of fencing material.	No.	50	77.59	3879.66
7	Irrigation two times	No.	100 0	8.27	8269.602
8	Purchase of water	No.	100 0	1.90	1902.34
9	Weeding and hoeing two time	No.	100 0	8.27	8269.602
10	Pruning of 1/3 Lower portion of Plants	No.	400	8.25	3298.889
11	Grass cutting from one meter wide strip 2 Times in 500 meter length in per Ha.	m2	100 0	5.17	5169.9
12	Cost of fertilizer, manures, insecticides etc including application.	No.	500	11.19	5595.13
	Total				47411.98
14	Added EPF @ 13% and ESI @ 3.25% of wages component				6171.79
15	Added contractor profit @ 10% of total				4741.2
	Net Total				58324.97
5th year maintainance at wage rate Rs.568.69 per day					
1	Irrigation Two times	No.	100 0	9.08	9078.89
2	Purchase of water	No.	100 0	2.09	2093.41
3	Pruning of 1/3 Lower portion of Plants	No.	400	9.07	3627.078
4	Grass cutting from one meter wide strip 1 Times in 500 meter length in per Ha.	m2	500	5.69	2843.45
	Total				17642.83
5	Added EPF @ 13% and ESI @ 3.25% of wages component				1051.46
6	Added contractor profit @ 10% of total				1764.28
	Net Total				20458.57
6th year maintainance at wage rate Rs.625.56 per day					
1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			7800
	Total				7800
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1267.5
3	Added contractor profit @ 10% of total				780
	Net Total				9847.5
7th year maintainance at wage rate Rs. 688.12 per day					
1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			7800
	Total				7800
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1267.5

3	Added contractor profit @ 10% of total				780
	Net Total				9847.5

8th year maintainance at wage rate Rs. 756.93 per day

1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			7800
	Total				7800
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1267.5
3	Added contractor profit @ 10% of total				780
	Net Total				9847.5

9th year maintainance at wage rate Rs.832.62 per day

1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			7800
	Total				7800
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1267.5
3	Added contractor profit @ 10% of total				780
	Net Total				9847.5

10th year maintainance at wage rate Rs. 915.88 per day

1	Misc. Expenditure on Cleaning, Pruning and thinning	L/S			7800
	Total				7800
2	Added EPF @ 13% and ESI @ 3.25% of wages component				1267.5
3	Added contractor profit @ 10% of total				780
	Net Total				9847.5

Abstract of cost norms

	Year of Plantation	Cost(Rs.)	Cost per plant(Rs.)
1	1st year plantation	342827.33	685.65
2	2nd year maintainance	98902.45	197.80
3	3rd year maintainance	69822.48	139.64
4	4th year maintainance	58324.97	116.65
5	5th year maintainance	20458.57	40.92
6	6th year maintainance	9847.50	19.70
7	7th year maintainance	9847.50	19.70
8	8th year maintainance	9847.50	19.70
9	9th year maintainance	9847.50	19.70
10	10th year maintainance	9847.50	19.70
	Total	639573.31	1279.15

Area to be Diverted : 0.0649 ha.

No. of Trees to be felled : 11

No. of Plants to be damaged : 25

Area to be planted under normal CA : 0.130 ha. (Double the area to be Diverted)

Plants to be Planted under normal CA : 130 Nos.

Additional C.A. in lieu of plants to be damaged (Double the plants to be damaged)= $25 \times 2 = 50$

Area to planted under Addl. CA : 0.050 (@ 1000 plants per ha.)

Total No. of plants to be planted (CA+Addl.CA) : $130+50=180$

Total Area to be planted (CA+Addl. CA) : $0.130+0.050=0.180$ ha. Or say 180 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	130	685.65	89134.50
	(2) 2 nd Year maintenance	130	197.80	25714.00
	(3) 3 rd Year maintenance	130	139.64	18153.20
	(4) 4 th Year maintenance	130	116.65	15164.50
	(5) 5 th Year maintenance	130	40.92	5319.60
	(6) 6 th Year maintenance	130	19.70	2561.00
	(7) 7 th Year maintenance	130	19.70	2561.00
	(8) 8 th Year maintenance	130	19.70	2561.00
	(9) 9 th Year maintenance	130	19.70	2561.00
	(10) 10 th Year maintenance	130	19.70	2561.00
	Total Charges			166291
	Supervisory / Overhead / Miscellaneous Charges		10% on the CA charges	16629
	Total (A) C.A. Charge			182920
B	Additional Compensatory Afforestation Charges			
	(1) 1 st Year cost of afforestation	50	685.65	34283
	(2) 2 nd Year maintenance	50	197.80	9890
	(3) 3 rd Year maintenance	50	139.64	6982
	(4) 4 th Year maintenance	50	116.65	5833
	(5) 5 th Year maintenance	50	40.92	2046
	(6) 6 th Year maintenance	50	19.70	985
	(7) 7 th Year maintenance	50	19.70	985
	(8) 8 th Year maintenance	50	19.70	985
	(9) 9 th Year maintenance	50	19.70	985
	(10) 10 th Year maintenance	50	19.70	985
	Total (B) Addl. C.A. Charges			63959
C	Penal C.A.		-	0

Catchment Area Treatment			
D	Soil and Moisture Conservation charges	30% of the Total CA	54876
	Total (D)		54876
E	Safety Zone (if required)		
F	Additional Charges (if required)	Qty	Rate
	Total (F)		0
G	Felling charges	Vol. M ³	Rs.1400 /- per m ³
		7.504	10506
H	Other Charges		
	Grand Total (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund		312261


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, Watchman, People's Participation etc.): - **Watchman**
- Proposed Monitoring Mechanism:- (M&E),
- Any Other information:- Nil.

Place:

Dated :


 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.