

Full Title of the Project: Diversion of 0.0098 hac. of Forest Land for access to Retail Outlet of BPCL on Nangal Choudhary- Naizampur Road to Bhedanti Road M. no.// killa no. 33//18/2&19/1/1 at Village Shahbajpur under forest division and Distt. Mahendergarh.

File No. : FP/HR/Approach/47857/2021

Date of Proposal : 22-07-2020

CHECK LIST SERIAL NUMBER :- 18 **"REVISED SCHEME FOR C.A. " (Model-1)**

Name of the Forest/Reach to be diverted for access to Retail Outlet of BPCL on Nangal Choudhary- Naizampur Road to Bhedanti Road M. no.// killa no. 33//18/2 & 19/1/1 at Village Shahbajpur under forest division and Distt. Mahendergarh.

Forest Area = 0.0098 ha.

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

Division: Mahendergarh District: Mahendergarh Range: Mahendergarh C.A. Site

Name: B.K.S. Rly Line, km 146 to 148 R/S to be afforested:-

- i) Whether the site selected for Compensatory Afforestation is a Land bank or Not: - **No, the site selected for compensatory afforestation is not a land bank.**
- ii) If the CA site is other than the land bank, reasons are given: - There is no land bank in District Mahendergarh. **Plantation will be done at Protected Forest area.**
In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:-
- iii) Soil type Sandy Loam
- iv) Topography a. Hilly/Undulating/Plain:
b. Slope: - Steep/**Medium**/Gentle
- v) Whether the area is bearing any root stock of vegetation:-Acacia tortilis.

Plantation Model :-

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

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

The Estimated cost of plantation & Maint. of 108 Plants for next ten year by revising the existing CA Scheme of 791.05 Rs. per plants from wage rate Rs. 363.77/- per day to Rs. 400/- per day, Rs. 1216.33 per plants in the year 2022-23 as under :-

S.No.	Year	Rate Per Plant
1	1 st Year Plantation	Rs. 483.90/- Per Plant
2	2 nd Year Plantation	Rs. 145.89/- Per Plant
3	3 rd Year Plantation	Rs. 89.03/- Per Plant
4	4 th Year Plantation	Rs. 40.49/- Per Plant
5	5 th Year Plantation	Rs. 45.37/- Per Plant
6	6 th Year Plantation	Rs. 54.54/- Per Plant
7	7 th Year Plantation	Rs. 65.72/- Per Plant
8	8 th Year Plantation	Rs. 79.38/- Per Plant
9	9 th Year Plantation	Rs. 96.08/- Per Plant
10	10 th Year Plantation	Rs. 115.93/- Per Plant
Total Cost		Rs. 1216.33

Area to be Diverted : 0.0098 ha.

No. of Trees to be felled : 11

No. of Plants to be damaged : 2

Area to be planted under normal CA : **0.110 ha.** (Ten time of trees to be felled)

Plants to be Planted under normal CA : **110** (@ 1000 plants per ha.)

Additional C.A. in lieu of plants to be damaged (Double the plants to be damaged)= **4** Plants

Area to be planted under Addl. CA : **0.004** ha. (@ 1000 plants per ha.)

Total No. of plants to be planted (CA+Addl.CA) : **114**

Total Area to be planted (CA+Addl.CA) : **0.114** ha. (@ 1000 plants per ha.)

A	Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1 st Year cost of afforestation	110	Rs. 483.90/- Per Plant	53229
	(2) 2 nd Year maintenance	110	Rs. 145.89/- Per Plant	16048
	(3) 3 rd Year maintenance	110	Rs. 89.03/- Per Plant	9793
	(4) 4 th Year maintenance	110	Rs. 40.49/- Per Plant	4454
	(5) 5 th Year Maintenance	110	Rs. 45.37/- Per Plant	4991
	(6) 6 th Year Maintenance	110	Rs. 54.54/- Per Plant	5999
	(7) 7 th Year Maintenance	110	Rs. 65.72/- Per Plant	7229
	(8) 8 th Year Maintenance	110	Rs. 79.38/- Per Plant	8732
	(9) 9 th Year Maintenance	110	Rs. 96.08/- Per Plant	10569
	(10) 10 th Year Maintenance	110	Rs. 115.93/- Per Plant	12752

	(11) Barbed wire fencing charge	1 RKM	Rs. 200000/- Per RKM	200000
	Total charges			333796
	Supervisory/Overhead/Miscellaneous Charges		10% on the total CA charges	33380
	Sub Total (A) C.A. charges			367176
B	Additional Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1 st Year cost of afforestation	4	Rs. 483.90/- Per Plant	1936
	(2) 2 nd Year maintenance	4	Rs. 145.89/- Per Plant	584
	(3) 3 rd Year maintenance	4	Rs. 89.03/- Per Plant	356
	(4) 4 th Year maintenance	4	Rs. 40.49/- Per Plant	162
	(5) 5 th Year Maintenance	4	Rs. 45.37/- Per Plant	181
	(6) 6 th Year Maintenance	4	Rs. 54.54/- Per Plant	218
	(7) 7 th Year Maintenance	4	Rs. 65.72/- Per Plant	263
	(8) 8 th Year Maintenance	4	Rs. 79.38/- Per Plant	318
	(9) 9 th Year Maintenance	4	Rs. 96.08/- Per Plant	384
	(10) th Year Maintenance	4	Rs. 115.93/- Per Plant	464
	(11) Barbed wire fencing charge	0.016	Rs. 200000/- Per RKM	3200
	Sub Total (B) Total addl. C.A. charges			8066
C	Penal CA			
D	Catchments Area Treatment			
	Soil and Moisture Conservation charges		30% of total CA	110153
	Sub Total (D)			110153
E	Safety Zone			0
F	Additional Charges			0
	i) Chain link fencing	0	0	0
	ii) Pipeline fitting for multiple water points			0
	iii) Survey & demarcation			10000
	iv) Plantation Sine board			5000
	Sub Total (F)			15000
G	Net Present Value of Forest Land to be diverted	0.0098	887000 per ha.	8693
H	Felling charges	2.16 m ³	1200 per cum	2592
	Exigency charges 3%			15273
	Grand Total (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund			526953

2. **Technical details :-**

Technical details of Compensatory Afforestation Scheme are as follows :-

- a) General Details :- Plantation will be done with 3 strand barbed wire in Protected Forest areas
- b) Spacement :- **4 x 4 meter**
- c) Species :- **Azadirachta indica, Holoptelea integrifolia, Ficus benghalensis, Ficus religiosa, Zyzypus mauritiana, Albizia lebbeck etc.**
- (d) Plantation Method :- **Tall Plantation .**
- (e) Soil and Moisture Conservation Works: - **Nil**
- (f) Protection (Fencing, Watch man, People's Participation etc): - **Fencing**
- (g) Proposed Monitoring Mechanism :- **(M & E)**
- (h) Any other information: - **N.A.**


Divisional Forest Officer
Mahendragarh Forest Division

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

Annexure - 1

Detail of site specific proposal @ 400 for the Year 2021-22

No. of Plants per Ha. = 1000 spacing of 4m x 4M plant to plant		@W.RATE		400	
S.N o.	Item of Work	Unit	Qty.	Rate/Unit (Rs.)	Amount (Rs.)
1st Year expenditure					
1	Jungle clearance	Ha.	1.6	6000.00	9600.00
2	Dag bailing and alignment	RKM	4	101.70	406.80
3	Digging of pits 1000x0.6mx0.6mx0.6m	M ³	216	254.63	55000.08
4	Reopening of pits same year 100x0.6mx0.6mx0.6m	M ³	22	28.36	623.92
5	Raising of plants in nursery (30cm x 45cm) 1000+20%extra	Nos	1200	170.00	204000.00
6	Loading and unloading of plants in tractor/cart	Nos	1100	3.01	3311.00
7	Carriage of plants by Tractor/Trolley	Nos	1100	25.13	27643.00
8	Carriage of plants from pit to pit	Nos	L/s		2748.99
9	Planting of seedling & including 10% replacement	Nos	1100	16.01	17611.00
10	Application of fertilizer (one time DAP+One time Urea)	Nos	2000	0.79	1580.00
11	Irrigation five times including cost of water	Nos	5000	6.01	30050.00
12	First weeding and hoeing	Nos	1000	7.98	7980.00
13	Subsequent weeding and hoeing five times	Nos	5000	6.01	30050.00
14	New Long fening	Mtr.	100	17.73	1773.00
15	Chhapa binding around plants	No.	1000	17.75	17750.00
16	Miscellance Expenditure for purchase of fertilizer, pesticides, foliage Nutrients, Baskets & Tins etc.	L.S.			3000
17	Cost of wages of protection watcher (one protection watcher for six months for plantation area 10 Ha.	L.S.			7199.05
	Total				420326.84
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				34152
	Added Contractor profit @ 7% of total				29423
	Net Total				483901.84

2nd Year Maintenance		@W.RATE		440	
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1977.18	988.59
2	Raising of Plants in Nursery	Nos	240	106.73	25615.20
3	Reopening of pits (200x0.6mx0.6mx0.6m)	M ³	44	83.95	3693.80
4	Loading and unloading of Plants	Nos	220	3.15	693.00
5	Carriage of Plants	Nos	220	26.36	5799.20
6	Carriage of Plants Pit to Pit	Nos	L.S.		1209.55
7	Planting of plants	Nos	220	16.79	3693.80
8	Irrigation three times including cost of water	Nos	3000	12.59	37770.00
9	Chhapa binding around plants	Nos	500	19.52	9760.00
10	Weeding and hoeing three times	Nos	3000	6.31	18930.00
11	Miscellance Expenditure	L.S.			10648.00
12	Cost of wages of protection watcher	L.S.			7918.96

Total				126720.10
Added EPF @ 13%				
Added ESI @ 3.25%				
of wages component 50% of total				10296
Added Contractor profit @ 7% of total				8870
Net Total				145886.10

3rd Year Maintenance		@W.RATE			484
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1978.12	989.06
2	Raising of Plants in Nursery	Nos	120	106.78	12813.60
3	Reopening of pits (100x0.6mx0.6mx0.6m)	M ³	22	83.99	1847.78
4	Loading and unloading of plants	Nos	110	3.15	346.50
5	Carriage of Plants	Nos	110	26.37	2900.70
6	Carriage of Plants Pit to Pit	Nos	L.S.		665.25
7	Planting of plants	Nos	100	16.80	1680.00
8	Irrigation two times including cost of water	Nos	2000	12.59	25180.00
9	Chhapa binding around plants	Nos	300	21.47	6441.00
10	Weeding and hoeing once	Nos	1000	6.31	6310.00
11	Miscellance Expenditure	L.S.			9450.00
12	Cost of wages of protection watcher	L.S.			8710.85
	Total				77334.74
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				6283
	Added Contractor profit @ 7% of total				5413
	Net Total				89030.74

4th Year Maintenance		@W.RATE			532
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1975.85	987.93
2	Expenditure on cleaning, pruning and thinning	L.S.			23758.00
3	Miscellance Expenditure	L.S.			10422.00
	Total				35167.93
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				2857
	Added Contractor profit @ 7% of total				2462
	Net Total				40486.93

5th Year Maintenance		@W.RATE			585
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1978.15	989.08
2	Expenditure on cleaning, pruning and thinning	L.S.			26967.00
3	Miscellance Expenditure	L.S.			11461.00
	Total				39417.08
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00

	of wages component 50% of total				3203
	Added Contractor profit @ 7% of total				2759
	Net Total				45379.08

6th Year Maintenance		@W.RATE			644
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1979.97	989.99
2	Expenditure on cleaning, pruning and thinning	L.S.			32470.00
3	Miscellance Expenditure	L.S.			13916.00
	Total				47375.99
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				3849
	Added Contractor profit @ 7% of total				3316
	Net Total				54540.99

7th Year Maintenance		@W.RATE			708
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1978.46	989.23
2	Expenditure on cleaning, pruning and thinning	L.S.			39369.00
3	Miscellance Expenditure	L.S.			16726.00
	Total				57084.23
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				4638
	Added Contractor profit @ 7% of total				3996
	Net Total				65718.23

8th Year Maintenance		@W.RATE			779
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1979.42	989.71
2	Expenditure on cleaning, pruning and thinning	L.S.			47649.00
3	Miscellance Expenditure	L.S.			20312.00
	Total				68950.71
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				5602
	Added Contractor profit @ 7% of total				4827
	Net Total				79379.71

9th Year Maintenance		@W.RATE			857
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1979.55	989.78
2	Expenditure on cleaning, pruning and thinning	L.S.			57778.00

Miscellance Expenditure	L.S.			24691.00
Total				83458.78
Added EPF @ 13%				0.00
Added ESI @ 3.25%				0.00
of wages component 50% of total				6781
Added Contractor profit @ 7% of total				5842
Net Total				96081.78

10th Year Maintenance		@W.RATE			943
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1978.75	989.38
2	Expenditure on cleaning, pruning and thinning	L.S.			69825.00
3	Miscellance Expenditure	L.S.			29886.00
	Total				100700.38
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				8182
	Added Contractor profit @ 7% of total				7049
	Net Total				115931.38

ABSTRACT OF COST NORMS		Cost (Rs.)	Cost per plant (Rs.)
1	FIRST YEAR PLANTATION	483901.84	483.9
2	SECOND YEAR PLANTATION	145886.10	145.89
3	THIRD YEAR PLANTATION	89030.74	89.03
4	FOURTH YEAR PLANTATION	40486.93	40.49
5	FIFTH YEAR PLANTATION	45379.08	45.38
6	SIXTH YEAR PLANTATION	54540.99	54.54
7	SEVENTH YEAR PLANTATION	65718.23	65.72
8	EIGHTH YEAR PLANTATION	79379.71	79.38
9	NINETH YEAR PLANTATION	96081.78	96.08
10	TENTH YEAR PLANTATION	115931.38	115.92
TOTAL			1216.33

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