

Full Title of the project: Diversion of 0.1109 hac. of Forest land for access to the Proposed Retail Outlet of Bharat Petroleum Corporation Ltd. On Bilaspur-Ranjeetpur Road at Village Ruhlaheri, Tehsil Bilaspur, under forest Division and Distt. YNR. Haryana.

Online Proposal No. FP/HR/Approach/48981/2020
Date of Proposal :

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

Name of the Forest/Reach to be diverted
Forest Area =0.1109 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 : Nizampur RF

Area to be Afforested :- 0.222 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.	RKM	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.	4000	5.21	20840
14	Purchase of water	No.	4000	1.27	5080
15	First weeding & hoeing.	No.	500	6.93	3465
16	Subsequent weeding & hoeing six times	No.	3000	5.21	15630
17	Grass cutting from one meter wide strip 5 Times in 500 meter length in per Ha.	m2	2500	3.47	8677
	Total				254377.3
					4
18	Added EPF @ 13% and ESI @ 3.25%of wages component				26524.73
19	Added contractor profit @ 10% of total				25437.73
	Net Total				306339.8
					0
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 0	5.78	14450

10	Grass cutting from one meter wide strip 4 Times in 500 meter length in per Ha.	m2	200		
11	Repair of Fencing		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
			0		10200
8	Purchase of water	No.	200	0	1.54
			0		3080
9	Weeding and hoeing four time	No.	200	0	5.1
			0		10200
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	4190
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		
			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 : 0.1109 ha.

No. of Trees to be felled : 15

No. of Plants to be damaged : 0

Area to be planted under normal CA : 0.222 ha. (Double the area to be diverted)

Plants to be Planted under normal CA : 222 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) : 222

Total Area to be planted (CA+Addl. CA) :0.222 ha. Or say 222 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	222	612.68	136014.96
	(2)	2 nd Year maintenance	222	176.80	39249.60
	(3)	3 rd Year maintenance	222	124.77	27698.94
	(4)	4 th Year maintenance	222	104.19	23130.18
	(5)	5 th Year maintenance	222	36.53	8109.66
	(6)	6 th Year maintenance	222	16.41	3643.02
	(7)	7 th Year maintenance	222	16.41	3643.02
	(8)	8 th Year maintenance	222	16.41	3643.02
	(9)	9 th Year maintenance	222	16.41	3643.02
	(10)	10 th Year maintenance	222	16.41	3643.02
	Total Charges				252418
	Supervisory / Overhead / Miscellaneous Charges			10% on the CA charges	25242
	Total (A) C.A. Charge				277660
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	83298
Total (D)			83298
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.	98368
H	Felling charges	Vol. M ³ 16.69	Rs.1400 /- per m ³ 23366
I			
Grand Total (A+B+C+D+E+F+G+H+I) to be deposited in CAMPA Fund			482693


2. **Technical details:-**

Technical details of Compensatory Afforestation Scheme are as follows:-

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

Place:

Dated :


 By, Conservator of Forests
 Yamunanagar Forest Division
 Yamuna Nagar.

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