

(27)

Diversion of 0.0614 ha. of forest land for approach road to proposed retail outlet (HPCL) at vill. Sultanwind Urban, (Amritsar City) on Taran wala Pul to Sultanwind Road, Tehsil & Distt. Amritsar.

File No. _____

Date of Proposal : _____

SCHEME FOR COMPENSATORY AFFORESTATION

Details scheme for compensatory afforestation to be carried out in lieu of 0.0041 ha. of forest area to be diverted for construction of approach road for a proposed retail outlet of Bharat Petroleum Corporation Limited at Village Thathian, Khasra No. 705/2, 706/1 on Batala – Beas road (LHS) MDR-66, Tehsil Baba Bakala, Distt. Amritsar (Punjab).

1. Detail of degrade forest land /non-forest land

District: Tarn Taran Village: Kuttiwala, Ghulewala....

Teh...Patti...

Name of forest division Amritsar. Range: ..Patti....

Block no./compartment /survey no.. Shabran Bandh RD 20 to 40 B/s

Area to be afforested:... :- 0.154 ha.

2. Description of Area

1. Whether the site selected for compensatory afforestation is a land bank or not Land Bank
2. If the CA site is other than the land bank, reason be given...N.A.
3. In case of non forest area identified for CA then what is the distance of CA site for the adjoining forest boundary ...N.A......
4. Soil type Medium
5. topography :-
 - a. hilly/undulating/plain
 - b. slope:-steep/medium/gentle X
6. Whether the area is bearing any root stock of vegetarian ...No......

3. Plantation model :

Copy of the approval compensatory afforestation scheme /modal showing component wise physical and financial break up to be enclosed.


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Wage Rate: 328/-
Plants Per ha. 1000 No.

Plantation Model for Standard Plantation under Compensatory Afforestation

Advance Work and Plantation					
	Name of Work	Unit	Qty	Unit Cost (In Rs.)	Total Amt
	Nursery				
	Cost of raising plants	1.100	1100	20.00	22000.00
A	Soil Works				
1	Site /Jungle Clearance (50%)	Ha.	0.50	5367.22	2683.61
2	Alignment & Dagbailing	Ha.	1	984.00	984.00
3	Earth Work- (a) Digging of Pits 1000x 0.5m x0.5m x0.4m	1M ³	100	101.38	10138.00
4	Kana Stubbing 25%	Ha.	0.25	26836.00	6709.00
B	Plantation Work				
1	a) Refilling of Pits 1000 x 0.5m x0.5m x0.4m	100 cum	75	2747.00	2060.25
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No	1100	550.00	6050.00
3	Carriage of Plants (1000+10% Wastage=1100 avg. distance upto 10 km)	100 No	1100	196.80	2164.80
4	i) Carriage from site to site	100 No	1000	131.20	1312.00
	ii) Planting of Plants (1000 No Including 10% replacement)	100 No	1000	984.00	9840.00
5	Spot Irrigation (1000 Plants)	100 No	1000	205.00	2050.00
6	Application of Insecticide (2 times)	100 No	1000	41.00	410.00
7	Application of Fertilizers (2 times)	100 No	1000	41.00	410.00
8	Weeding & Hoeing 3 times	100 No	3000	357.52	10725.60
9	Hand Watering (12 Times)	100 No	12000	205.00	24600.00
10	Replanting of Plants 10%	100 No	100	579.11	579.11
11	Rejungle Clearance (2 times)	Per Ha.	1	2378.00	2378.00
12	Covering (25% plants) of plants	100 No	250	295.20	738.00
13	Uncovering of plants	100 No	250	32.80	82.00
14	Restubbing of Kana (1 time)		0.25	26836.30	6709.08
15	Laying out & fixing of Barbed Wire	L/s			7872.00
16	Watch & Ward for every 10 Ha. (7 months)	Man year	1Man 7 Month	8528.00	5969.60
17	Material				
	i) Insecticides/Fertilizers	L/s			5000.00
	ii) POL	L/s			5000.00
	iii) Barbed Wire& fencing	L/s			50000.00
	Sub Total				186465.05
Maintenance I Year					

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Estimate for CA

E:\Revenue\fca\CA papers of cases\HPCL 0.0614 ha Sultanwind urban\CA Estimate Brand New

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1	Cost of raising plants for 30% replacement	1 No.	300	20.00	6000.00
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	21.60	59.63	1341.68
3	Refilling of pits with earth in other soils 300	1 m3	21.6	27.47	618.08
4	Loading & Unloading of Plants	1 No.	300	2.46	738.00
5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	100 No	1	196.20	196.20
6	Spreading of plants pit to pit	100 No	165	131.20	216.48
7	Re-planting Tall Plants	100 No	165	329.08	542.98
8	Spot Irrigation	100 No.	165	205.00	338.25
9	Weeding & Hoeing (thrice)	100 No	3000	357.52	10725.60
10	App. Of Fertilizer (two times)	100 No	1000	41.00	410.00
11	App. Of Insecticide (two times)	100 No	1000	41.00	410.00
12	Hand watering (6 times)	100 No	6000	357.52	21451.20
13	Rejungle Clearance (2 times)	Per Ha.	1.00	2378.00	2378.00
14	Restubbing of Kana	Per Ha.	0.25	26836.00	6709.00
15	Watch & Ward for every 10 Ha. (10 months)	Man year	1/10 Man yr.	8528.00	5969.60
16	Repair of Barbed wire	L/s			5000.00
17	POL & Machinery	L/s			5000.00
18	Material and supply	L/s			5000.00
			Sub Total		73045.07
Maintenance II Year					
1	Cost of raising plants for 15% replacement	No.	150	20.00	3000.00
2	Reopening of Pits 250 x 0.60 x 0.60 x 0.40	1 m3	21.6	59.63	644.00
3	Refilling of pits with earth in other soils 250 x 0.60 x 0.60 x 0.40	1 m3	21.6	27.47	296.68
4	Loading & Unloading of Plants	1 No.	75	2.46	184.50
5	Carriage of Plants = 75 avg. distance upto 10 km.)	100 No	1	196.20	196.20
6	Spreading of plants pit to pit	100 No	75	131.20	98.40
7	Re-planting to tall plants	100 No	75	229.09	171.82
8	Spot Irrigation	100 No.	75	205.00	153.75
9	Weeding & Hoeing (twice)	100 No	2000	357.52	7150.40
10	Hand Watering 5 Times	100 No	500	205.00	10250.00
11	Rejungle Clearance (2 times)	Per Ha.	1.00	2378.00	2378.00
12	Pruning to plants	100 No.	100	387.61	387.61
14	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	8528.00	5969.60
15	Repair of Barbed wire	L/s			5000.00
16	POL & Machinery	L/s			5000.00
17	Material and supply	L/s			5000.00
			Sub Total		45880.96
Maintenance III Year					
1	Cost of raising plants for 10% replacement	1 No.	100	20.00	2000.00

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1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	8528.00	5969.60
			Sub Total		5969.60
Maintenance VIII Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	8528.00	5969.60
			Sub Total		5969.60
Maintenance IX Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	8528.00	5969.60
			Sub Total		5969.60
Maintenance X Year					
1	Watch and Ward every 10 ha. (10 Months)	Man Year	1/10 Man yr.	8528.00	5969.60
			Sub Total		5969.60
	Over Head expenses 5%				423457.90
	Wages Enhancement 10%				21172.90
					42345.79
			G.Total		486976.59
			Or Say		486977.00

Summary of Costs

a) **Cost of Plantation:**

- (i) Cost of plantation in 1 Hect. Area (1000 Plants)+
(ii) Cost of plantation for 0.154 ha. area

Rs 486977.00
Rs 74994

- b) **Net present value** as fixed by Govt. for open area diverted @ Rs 8.3 lac per ha.

49304
Total 124298

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2. Schedule of Plantation Programme:-

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

Year	Area	Rate/ha.	Total amount
0 th year	0.154	186465.05	28715.6177
1 st year	0.154	73045.07	11248.94078
2 nd year	0.154	45880.96	7065.66784
3 rd year]	0.154	42683.63	6573.27902
4 th year	0.154	39565.60	6093.1024
5 th year	0.154	5969.60	919.3184
6 th year	0.154	5969.60	919.3184
7 th year	0.154	5969.60	919.3184
8 th year	0.154	5969.60	919.3184
9 th year	0.154	5969.60	919.3184
10 th year	0.154	5969.60	919.3184
Expenses overhead 5%	0.154	21172.89	3260.62506
Wage Enhancement 10%	0.154	42345.79	6521.25166
Total:-			74994.39486
Or Say			74994

3. Technical details:-

Technical Details of Compensatory Afforestation Scheme Are As Follows:-

- General Details:- **Blank Area to be stocked by planting 0.154 ha Area.**
- Spacement:- **4m x 2.5 m**
- Species:- **Shisham, Drek, Euc, Arjun etc.**
- Plantation Method:- **Pits & Ridge Method**
- Soil And Moisture Conservation Works:- **N.A.**
- Protection (Fencing, Watch Man, People's Participation Etc.) **Watchman**
- Proposed Monitoring Mechanism:- **as per guidelines issued by PCCF.**
- Any Other Information: **Nil**