

Diversion of 0.0181 Ha. of forest land for approach road to retail outlet of Bharat Petroleum Corporation Ltd. at Village Chachoki on Phagwara-Mukandpur Road, Tehsil Phagwara & Distt. Kapurthala, under Forest Division Jalandhar, Punjab

Proposal No:	Diversion (Ha.):	0.0181
FP/PB/Approach/41476/2019	Previous Wage Rate :	328.00
	Current Wage Rate :	368.85

Plantation Model For Standard Plantation under Compensatory Afforestation, Plants Per Hectare : 1000 Nos.

Sr. No.	Name of Work	Unit	Qty.	Unit Cost (In Rs.)	Amount
	Nursery				
	Nursery cost of raising plants	1100	1100	22.49	24739.00
A	Soil Work				
1	Site / Jungle Clearance (25%)	Ha.	0.5	6035.66	3017.83
2	Alignment & Dagbaling	Ha.	1	1106.55	1106.55
3	Earth Works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m	1 M3	100	114.00	11400.00
4	Preparation of Boundary Watt (1 w x 0.50 m x 500 m)	1 M3	250	114.00	28500.00
5	Kana Stubbing 25%	Ha.	0.25	30110.00	7527.50
B	Plantation Work				
1	Refilling of Pits 1000x0.5mx0.5mx0.3)	100 cum	75	3089.11	2316.83
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No.	1100	618.49	6803.39
3	Carriage of Plants (1000+10% wastage =1100 avg. dist. upto 10 km.)	100 No.	1100	221.31	2434.41
4	i) Carriage from site to site	100 No.	1000	147.54	1475.40
	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1000	1106.55	11065.50
5	Spot Irrigation (1000 Plants)	100 No.	1000	230.53	2305.30
6	Application of Insecticide (2 Times)	100 No.	2000	46.10	922.00
7	Application of Fertilizers (2 Times)	100 No.	2000	46.10	922.00
8	Weeding & Hoeing 3 Times	100 No.	3000	402.04	12061.20
9	Hand Watering (12 Times)	100 No.	12000	230.53	27663.60
10	Replanting of Plants 10%	100 No.	100	651.23	651.23
11	Rejungle Clearance (2 Times)	100 No.	1	2674.16	26.74
12	Covering (25% plants) of plants	100 No.	250	331.96	829.90
13	Uncovering of plants	100 No.	250	36.88	92.20
15	Laying out & fixing of Barbed Wire	L/s			8852.40
16	Watch & Ward for every 10 Ha. (7 Months)	Man	1 Man	9590.10	6713.07
17	Material				
	i) Insecticides / Fertilizers	L/s			8000.00
	ii) POL	L/s			10000.00
	iii) Cost of Barbed Wire	L/s			20500.00
	iv) Cost of Fence Post	L/S			50000.00
	Sub Total				249926.05
	Maintenance 1 Year				
1	Cost of raising plants for 30% replacement	1 No.	300	22.49	6747.00
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 M3	22.5	67.05	1508.63
3	Refilling of pits with earth in other soils 300x0.50x0.50x0.30	1 M3	22.5	30.89	695.03
4	Loading & Unloading of Plants	1 No.	330	2.76	910.80
5	Carriage of Plants (300+10% Wastage=330 avg. dist. upto 10 Km.)	100 No.	330	220.63	728.08
6	Spreading of plants pit to pit	100 No.	330	147.54	486.88
7	Re-Planting to plants	100 No.	330	370.06	1221.20
8	Spot Irrigation	100 No.	330	230.53	760.75
9	Weeding & Hoeing (Three)	100 No.	3000	402.04	12061.20
10	Application of Insecticide (2 Times)	100 No.	2000	46.10	922.00
11	Application of Fertilizers (2 Times)	100 No.	2000	46.10	922.00
12	Hand Watering (6 Times)	100 No.	6000	402.04	24122.40
13	Rejungle Clearance (2 Times)	Per.Ha.	1	2674.16	2674.16
14	Restubbing of Kana	Per.Ha.	0.25	13737.68	3434.42

Divisional Forest Officer
Jalandhar Forest Division
Jalandhar. *ms* *Baljit*

15	Watch & Ward for every 10 Ha. (10 Months)	Man Year	1/10 Man Yr.	9590.10	9590.10
16	Repair of Barbed Wire	L/s			2213.00
17	POL & Machinery	L/s			5000.00
18	Material and Supply	L/s			4000.00
	Sub Total				77997.64
	2nd Year Maintenance				
1	Cost of raising plants for 15% replacement	1 No.	150	22.49	3373.50
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.30	1 M3	16.2	67.05	1086.21
3	Refilling of pits with earth in other soils 150x0.60x0.60x0.30	1 M3	16.2	30.89	500.42
4	Loading & Unloading of Plants	1 No.	165	2.76	455.40
5	Carriage of Plants Wastage = 75 avg. distance upto 10 Km.)	100 No.	165	220.64	364.06
6	Spreading of plants pit to pit	100 No.	150	147.54	221.31
7	Re-Planting to plants	100 No.	150	257.62	386.43
8	Spot Irrigation	100 No.	150	230.53	345.80
9	Weeding & Hoeing (Twice)	100 No.	2000	402.04	8040.80
10	Hand Watering (6 Times)	100 No.	6000	230.53	13831.80
11	Rejungle Clearance (2 Times)	100 No.	1	2674.16	2674.16
12	Pruning to Plants 10%	100 No.	100	435.88	435.88
13	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	9590.10	9590.10
14	Repair of Barbed Wire	L/s			2213.00
15	POL & Machinery	L/s			5000.00
18	Material and Supply	L/s			3000.00
	Sub Total				51518.86
	3rd Year Maintenance				
1	Cost of raising plants for 10% replacement	1 No.	100	22.49	2249.00
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.30	1 M3	7.5	67.05	502.88
3	Refilling of pits with earth in other soils 100x0.50x0.50x0.30	1 M3	7.5	30.89	231.68
4	Loading & Unloading of Plants	1 No.	100	2.76	276.00
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	100	220.64	220.64
6	Spreading of plants pit to pit	100 No.	100	147.54	147.54
7	Re-Planting to plants	100 No.	100	257.62	257.62
8	Spot Irrigation	100 No.	100	230.53	230.53
9	Weeding & Hoeing (twice)	100 No.	2000	402.04	8040.80
10	Hand Watering (5 Times)	100 No.	5000	230.53	11526.50
11	Rejungle Clearance (2 Times)	Per.Ha.	1	2674.16	2674.16
12	Pruning to Plants 20%	100 No.	200	435.88	871.76
13	Watch & Ward for every 10 Ha.	Man	1/10	9590.10	9590.10
14	Repair of Barbed Wire	L/s			2213.00
15	POL & Machinery	L/s			5000.00
18	Material and Supply	L/s			3000.00
	Sub Total				47032.20
	4th Year Maintenance				
1	Cost of raising plants for 5% replacement	1 No.	50	22.49	1124.50
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.30	1 M3	7.5	67.05	502.88
3	Refilling of pits with earth in other soils 100x0.50x0.50x0.30	1 M3	7.5	30.89	231.68
4	Loading & Unloading of Plants	1 No.	50	2.76	138.00
5	Carriage of Plants 50 avg. distance upto 10 Km.)	100 No.	50	1.12	56.00
6	Spreading of plants pit to pit	100 No.	50	147.54	73.77
7	Re-Planting to plants	100 No.	50	257.62	128.81
8	Spot Irrigation	100 No.	50	230.53	115.27
9	Weeding & Hoeing (twice)	100 No.	2000	402.04	8040.80
10	Hand Watering (5 Times)	100 No.	5000	230.53	11526.50
11	Rejungle Clearance (2 Times)	Per.Ha.	1	2674.16	2674.16
12	Pruning to Plants 30%	100 No.	300	435.88	1307.64
13	Watch & Ward for every 10 Ha.	Man Year	1/10 Man Yr.	9590.10	9590.10

Divisional Forest Officer,
Jalandhar Forest Division
Jalandhar. W. *Reddy*

14	POL & Machinery	L/s			2000.00
15	Material and Supply	L/s			2000.00
	Sub Total				39510.10
	5th Year Maintenance				
1	Watch & Ward for every 10 Ha. (12 Months)	Man	1/12	9590.10	11508.12
	Sub Total				11508.12
	6th Year Maintenance				
1	Watch & Ward for every 10 Ha. (12 Months)	Man	1/12	9590.10	11508.12
	Sub Total				11508.12
	7th Year Maintenance				
1	Watch & Ward for every 10 Ha. (12 Months)	Man	1/12	9590.10	11508.12
	Sub Total				11508.12
	8th Year Maintenance				
1	Watch & Ward for every 10 Ha. (12 Months)	Man	1/12	9590.10	11508.12
	Sub Total				11508.12
	9th Year Maintenance				
1	Watch & Ward for every 10 Ha. (12 Months)	Man	1/12	9590.10	11508.12
	Sub Total				11508.12
	10th Year Maintenance				
1	Watch & Ward for every 10 Ha. (12 Months)	Man	1/12	9590.10	11508.12
	Sub Total				11508.12
	Total				535033.57
	Over Head expenses 5%				26751.68
	Wage Enhancement @ 10%				53503.36
	G. Total				615288.60
	Or Say				615289.00

Cont...

Divisional Forest Officer,
Jalandhar Forest Division,
Jalandhar. W. B. Singh

Area of Diversion	0.0181	Ha.
No. of Trees effected	6	
No. of Plants effected	6	
No. of Poles effected	4	
Violation by UA?	No	(Answer)
Area of Violation (if any)	0	Ha.

C.A.	100 Trees /1000	0.10	Ha.	(L.S.Certificate)
	@ 615289 x 0.1	61528.9	Rs.	
	Round up (or say)	61529.00	Rs.	

N.P.V.	6 Trees / 0.0181 Ha.	332	No.
	Rate of NPV as per 332 No.	1357110.00	Rs.
	@1357110 x 0.0181 Ha.	24563.69	Rs.
	Round up (or say)	24564.00	Rs.

A.C.A.	Cost per plant	676.00	Rs.	(L.S.Certificate)
	(4 Poles + 6 Plants) x2 = 20 x 676	13520.00	Rs.	
	20 Plants/500	0.04	Ha.	
	Round up (or say)	13520.00	Rs.	

Entry Point Activity			
	10 % of CA 61529	6152.9	Rs.
	Or say	6153	Rs.
a.	General Details:- The area in which compensatory afforestation is to be done falls along the Kingra Cho from Village Darapur to Village Kotla (B/s)- Jalandhar Range Non Forest land of falls near this forest strip area of the strip is plain and growing stock already existing is less & needed to be afforested.		
b.	Spacement:- 3x3mt		
c.	Species:- Shisham, Neem, Drek, Kikar, Sirs, Cassia auriculiformis, Cassia Siemia etc.		
d.	Plantation Method:- Trench & Pits.		
e.	Soil and Moisture Conservation Works:- NA		
f.	Protection (Fencing, Watch & Ward, People's Participation etc.): - Fencing, Watch & Ward, People's Participation etc.		
g.	Proposal Monitoring Mechanism:- Segment of plantation to be made. Monitoring is to be done by Forester, Range Officer, D.D.F.O. / D.F.O.		
h.	Any other information:-		


 Divisional Forest Officer,
 Jalandhar Forest Division
 Jalandhar

Diversion of 0.0181 Ha. of forest land for approach road to retail outlet of Bharat Petroleum Corporation Ltd. at Village Chachoki on Phagwara-Mukandpur Road, Tehsil Phagwara & Distt. Kapurthala, under Forest Division Jalandhar, Punjab

Rate= 368.85

Estimate for planting of Tall plants

	Name of Work	Unit	Unit Cost (In	Qty	Total Amt
	Nursery				
	Cost of Tall plants	1 No	60	550	33000.00
	Soil Works				
1	Site /Jungle Clearance (50%)	Ha.	5367.22	0.5	2683.61
2	Alignment & Dagbailing	Ha.	984	1	984.00
3	Earth Work- Digging of Pits 500x 0.6m x0.6m x0.5m Heavy Soil	1M ³	101.38	90	9124.20
4	Kana Stubbing 25%	Ha.	26836.3	0.25	6709.08
	Planting				
1	Refilling of Pits	100 cum	2747	72	1977.84
2	Loading & Unloading of Plants (500+10% Wastage=550)	100 No	246	550	1353.00
3	Carriage of Plants (500+10% Wastage=550 avg. distance upto 10 km.)500 Trolly	100 No	196.8	1	196.80
4	i) Carriage from site to site	100 No	131.2	550	721.60
	ii) Planting of Plants (500 No Including 10% replacement)	100 No	984	550	5412.00
5	Spot Irrigation (500 Plants)	100 No	205	500	1025.00
6	Application of Insecticide (2 times)	100 No	41	1000	410.00
7	Application of Fertilizers (2 times)	100 No	41	1000	410.00
8	Weeding & Hoeing 3 times	100 No	357.52	1500	5362.80
9	Hand Water 6 months x 2 times =12 times	100 No	205	6000	12300.00
10	Replanting of Plants 10%	100 No	579.11	50	289.56
11	Rejungle Clearance (2 times)	Per Ha.	2378	1	2378.00
12	Covering (25% plants) of plants	100 No	295.2	125	369.00
13	Uncovering of plants	100 No	32.8	125	41.00
14	Restubbing of Kana (1 time)	Ha.	26836.3	0.25	6709.08
15	Laying out & fixing of Barbed Wire	L/s			4200.00

Divisional Forest Officer,
Jalandhar Forest Division,
Jalandhar.

16	Watch & Ward for every 10 Ha. (7 months)	Man year	8528	1Man 7 Month	5969.60
17	Material				
	i) Insecticides/Fertilizers	L/s			5000.00
	ii) POL	L/s			5000.00
				Sub Total	111626.16

Maintenance I Year

1	Cost of plants for 30% replacement	1 No.	60	150	9000.00
2	Reopening of Pits 150 x 0.60 x 0.60 x 0.40	1 m3	59.63	21.6	1288.01
3	Refilling of pits with earth in other soils 150 x 0.60 x 0.60 x 0.40	1 m3	27.47	21.6	593.35
4	Loading & Unloading of Plants	1 No.	2.46	150	369.00
5	Carriage of Plants (150+10% Wastage=330 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	165	216.48
7	Re-planting Tall Plants	100 No	329.08	165	542.98
8	Spot Irrigation	100 No.	205	165	338.25
9	Weeding & Hoeing (thrice)	100 No	357.52	1500	5362.80
10	App. Of Fertilizer (two times)	100 No	41	1000	410.00
11	App. Of Insecticide (two times)	100 No	41	1000	410.00
12	Hand watering 6 months x 2 times =12 times	100 No	357.52	6000	21451.20
13	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
14	Restubbing of Kana	Ha.	26836	0.25	6709.00
15	Watch & Ward for every 10 Ha. (10 months)	Man year	8528	1/10 Man yr.	8528.00
16	POL	L/s			5000.00
17	Material and supply	L/s			5000.00
				Sub Total	67793.27

Maintenance II Year

1	Cost of plants for 15% replacement	No.	60	75	4500.00
2	Reopening of Pits 75 x 0.60 x 0.60 x 0.40	1 m3	59.63	10.8	644.00
3	Refilling of pits with earth in other soils 75 x 0.60 x 0.60 x 0.40	1 m3	27.47	10.8	296.68
4	Loading & Unloading of Plants	1 No.	2.46	75	184.50

Divisional Forest Officer,
Jalandhar Forest Division,
Jalandhar. *[Signature]*

5	Carriage of Plants = 75 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	75	98.40
7	Re-planting to tall plants	100 No	229.08	75	171.81
8	Spot Irrigation	100 No.	205	75	153.75
9	Weeding & Hoeing (twice)	100 No	357.52	1500	5362.80
10	Hand Watering 10 Times	100 No	205	5000	10250.00
11	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
12	Stubbing of Kana	Ha.	26836	0.1	2683.60
13	Pruning to plants	100 No.	387.61	100	387.61
14	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
15	POL	L/s			5000.00
16	Material and supply	L/s			5000.00
				Sub Total	45835.35

Maintenance III Year

1	Cost of plants for 10% replacement	1 No.	60	50	3000.00
2	Reopening of Pits 50 x 0.60 x 0.60 x 0.40	1 m3	5963	7.2	429.34
3	Refilling of pits with earth in other soils 50 x 0.60 x 0.60 x 0.40	1 m3	27.47	7.2	197.78
4	Loading & Unloading of Plants	1 No.	2.46	50	123.00
5	Carriage of Plants 50 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	50	65.60
7	Re-planting to plants	100 No	229.08	50	114.54
8	Spot Irrigation	100 No.	205	50	102.50
9	Weeding & Hoeing (thrice)	100 No	357.52	1500	5362.80
10	Hand Watering (8 times)	100 No	205	4000	8200.00
11	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
12	Stubbing of Kana	Ha.	26836	0.1	2683.60
13	Pruning to plants 20%	100 No.	387.61	100	387.61
14	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
15	POL	L/s			5000.00
16	Material and supply	L/s			5000.00
				Sub Total	41768.97

Maintenance IV Year

1	Cost of plants for 5% replacement	1 No.	60	25	1500.00
2	Reopening of Pits 25 x 0.60 x 0.60 x 0.40	1 m3	59.63	3.6	214.67

Divisional Forest Officer,
Jalandhar Forest Division,
Jalandhar. *W*

3	Refilling of pits with earth in other soils 25 x 0.60 x 0.60 x 0.40	1 m3	27.47	3.6	98.89
4	Loading & Unloading of Plants	1 No.	2.46	25	61.50
5	Carriage of Plants = 25 avg. distance upto 10 km.)	500 No	196.2	1	196.20
6	Spreading of plants pit to pit	100 No	131.2	25	32.80
7	Re-planting to plants	100 No	229.08	25	57.27
8	Spot Irrigation	100 No.	205	25	51.25
9	Weeding & Hoeing (twice)	100 No	357.52	1500	5362.80
10	Rejungle Clearance (2 times)	Ha.	2378	1	2378.00
11	Pruning to plants 30%	100 No.	387.61	300	1162.83
12	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.	8528.00
15	POL	L/s			5000.00
16	Material and supply	L/s			5000.00
				Sub Total	29644.21
				TOTAL	296667.96
	Over Head expenses 5%				14833.40
	Enhancement due to wage escalation @9%				26700.12
				G.Total	338201.47
				Or Say	338201
Note	The watch and ward in subsequent years will carry out the necessary operations of Pruning				
	Total Cost per plant (in Rs)	676			
					676000.00


Divisional Forest Officer
Jalandhar Forest Division
Jalandhar Phillaur