

Full Title of the Projects:- Diversion of 0.0594 ha. of forest land in favour of PSPCL for 66 KV G/S/S Devigarh to 66 KV G/S/S Roharjagir T-off for 66 KV G/S/S Bhasmara SC/DC Tower line on various forest strips in Patiala Range Tehsil Patiala & Distt. Patiala under Forest Division Patiala, Punjab.

Proposal No:- FP/PB/Trans/42211/2019

CHECK LIST SERIAL NUMBER:-17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme Compensatory Afforestation Estimate for diversion of 0.0594 ha. of forest land in favour of PSPCL for 66 KV G/S/S Devigarh to 66 KV G/S/S Roharjagir T-off for 66 KV G/S/S Bhasmara SC/DC Tower line on various forest strips in Patiala Range Tehsil Patiala & Distt. Patiala under Forest Division Patiala, Punjab.

Details of degraded forest land:- Bir Bhorey Agoul C NO 17,21,25 & 26

District Patiala

Village : . Bhorey Agoul

Tehsil: Nabha

Name of Forest Division: Patiala

Forest Range: Bhadson

Block No./Compartment No./Survey No. Bir Bhorey Agoul C NO 17,21,25 & 26

Area:- 0.149 Ha.

Area to be afforested:- 0.149 Ha. Plantation will be planted on Bir Bhorey Agoul C NO 17,21,25 & 26

2. Description of Area:-

- Whether the site selected for Compensatory Afforestation is a land bank or not:- _____ Yes
- If the CA site is other than the land bank, reasons be given:- Land bank.
- In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:- N.A.
- Soil type:- Heavy
- Topography:- a. Plain
b. Slope:- Gentle
- Whether the area is bearing any root stock of vegetation: Scattered.

3. Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up to be enclosed.

4. Schedule of Plantation Programme:-

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

0th year	0.149	203272.79	30287.64571
1st Year	0.149	81715.3	12175.5797
2nd Year	0.149	50921.74	7587.33926
3rd Year	0.149	57110.47	8509.46003

Divisional Forest Officer
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4 th Year	0.149	55497.08	8269.06492
5 th Year	0.149	6479.2	965.4008
6 th Year	0.149	6479.2	965.4008
7 th Year	0.149	6479.2	965.4008
8 th Year	0.149	6479.2	965.4008
9 th Year	0.149	6479.2	965.4008
10 th Year	0.149	6479.2	965.4008
Supervision Charge	0.149	73108.89	10893.22461
		560501.47	83514.71903

5. Technical Details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Details :-
- Spacement :- 3 x 3 mtr.
- Species :- Euc, Kikar ,Shisham Muscat, Arjun ,Neem,Jamun, Euc.,Mulb. etc.
- plantation Method :-Pit & Trenches
- Soil and Moisture Conservation Works :-
- Protection (Fencing, Watch man , People's Participation etc.):Fencing,
Watch Man
- Proposed Monitoring Mechanism :-Internal
- Any other information :-

Date:

Place: Patiala

Harbhajan Singh ,PFS
Divisional Forest Officer,
Patiala Forest Division,
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Wage
Rate : Rs. 356

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	21.71	23878.05
A	Soil Work				
1	Site / Jungle Clearance (50%)	1 Ha.	0.5	5825.40	2912.70
2	Alignment & Dagbaling	1 Ha.	1	1068.00	1068.00
3	Earth works in Digging of Pits 1000 x 0.5 m x 0.5 m x 0.4 m	1 M3	100	110.03	11003.44
5	Kana Stubbing 25%	1 Ha.	0.25	29126.88	7281.72
B	Plantation Work				
1	Refilling of Pits 1000x0.5mx0.5mx0.3	100 cum	75	2981.50	2236.13
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No.	1100	596.95	6566.46
3	Carriage of Plants (1000+10% wastage =1100 avg. distance upto 10 km.)	100 No.	1100	213.60	2349.60
4	i) Carriage from site to site	100 No.	1000	142.40	1424.00
	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1000	1068.00	10680.00
5	Spot Irrigation (1000 Plants)	100 No.	1000	222.50	2225.00
6	Application of Insecticide (2 Times)	100 No.	2000	44.50	890.00
7	Application of Fertilizers (2 Times)	100 No.	2000	44.50	890.00
8	Weeding & Hoeing 3 Times	100 No.	3000	388.04	11641.20
9	Hand Watering (12 Times)	100 No.	12000	222.50	26700.00
10	Replanting of Plants 10%	100 No.	100	628.55	628.55
11	Rejungle Clearance (2 Times) 50%	Per Ha.	1	2581.00	2581.00
12	Covering (25% plants) of plants	100 No.	250	320.40	801.00
13	Uncovering of plants	100 No.	250	35.60	89.00
14	Restubbing of Kana (1 Time) 25%		0.25	29127.20	7281.80

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15	Laying out & fixing of Barbed Wire	L/s			8544
16	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1 Man 7 Month	9256	6479.2
17	Material				
	i) Insecticides / Fertilizers	L/s			5426.829
	ii) POL	L/s			5426.829
	iii) Barbed Wire	L/s			54268.293
	Sub Total				203272.79
	Maintenance 1 Year				
1	Cost of raising plants for 30% replacement	1 No.	300	21.71	6512.20
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	22.5	64.72	1456.21
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	22.5	29.82	670.84
4	Loading & Unloading of Plants	1 No.	330	2.67	881.10
5	Carriage of Plants (300+10% Wastage = 330 avg. distance upto 10 Km.)	100 No.	330	212.95	702.73
6	Spreading of plants pit to pit	100 No.	300	142.40	427.20
7	Re-Planting to plants	100 No.	300	357.17	1071.52
8	Spot Irrigation	100 No.	300	222.50	667.50
9	Weeding & Hoeing (Three)	100 No.	3000	388.04	11641.20
10	Application of Insecticide (2 Times)	100 No.	2000	44.50	890.00
11	Application of Fertilizers (2 Times)	100 No.	2000	44.50	890.00
12	Hand Watering (6 Times)	100 No.	6000	388.04	23282.40
13	Rejungle Clearance (2 Times) 50%	Per Ha.	1	2581.00	2581.00
14	Restubbing of Kana	Per Ha.	0.25	29126.88	7281.72
15	Watch & Ward for every 10 Ha. (7 Months)	Man Year	1/10 Man Yr.	9256.00	6479.20
16	Repair of Barbed Wire	L/s			5426.83
17	POL & Machinery	L/s			5426.83
18	Material and Supply	L/s			5426.83
	Sub Total				81715.30

Divisional Forest Officer

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2nd Year Maintenance					
1	Cost of raising plants for 15% replacement	1 No.	150	21.71	3256.10
2	Reopening of Pits 150 x 0.50 x 0.50 x 0.40	1 m3	15	64.72	970.81
3	Refilling of pits with earth in other soils 150 x 0.50 x 0.50 x 0.30	1 m3	11.25	29.82	335.42
4	Loading & Unloading of Plants	1 No.	165	2.67	440.55
5	Carriage of Plants (150+10% Wastage = 165 avg. distance upto 10 Km.)	100 No.	165	212.95	351.37
6	Spreading of plants pit to pit	100 No.	150	142.40	213.60
7	Re-Planting to plants	100 No.	150	248.65	372.97
8	Spot Irrigation	100 No.	150	222.50	333.75
9	Weeding & Hoeing (Twice)	100 No.	2000	388.04	7760.80
10	Hand Watering (5 Times)	100 No.	5000	222.50	11125.00
11	Rejungle Clearance (2 Times) 50%	Per Ha.	1	2581.00	2581.00
12	Pruning to Plants	100 No.	100	420.70	420.70
13	Watch & Ward for every 10 Ha. (7 months)	Man Year	1/10 Man Yr.	9256.00	6479.20
14	Repair of Barbed Wire	L/s		5426.83	5426.83
15	POL & Machinery	L/s		5426.83	5426.83
18	Material and Supply	L/s		5426.83	5426.83
Sub Total					50921.74
3rd Year Maintenance					
1	Cost of raising plants for 10% replacement	1 No.	100	21.71	2170.73
2	Reopening of Pits 100 x 0.50 x 0.50 x 0.40	1 m3	10	6472.04	647.20
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	7.5	29.82	223.61
4	Loading & Unloading of Plants	1 No.	110	2.67	293.70
5	Carriage of Plants (100+10% Wastage = 110 avg. distance upto 10 Km.)	100 No.	110	1.09	119.39
6	Spreading of plants pit to pit	100 No.	100	142.40	142.40

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7	Re-Planting to plants	100 No.	100	248.65	248.65
8	Spot Irrigation	100 No.	100	222.50	222.50
9	Weeding & Hoeing (thrice)	100 No.	3000	388.04	11641.20
10	Hand Watering (8 Times)	100 No.	8000	222.50	17800.00
11	Pruning to Plants 20%	100 No.	200	420.70	841.40
12	Watch & Ward for every 10 Ha. (7 months)	Man Year	1/10 Man Yr.	9256.00	6479.20
13	Repair of Barbed Wire	L/s		5426.83	5426.83
14	POL & Machinery	L/s		5426.83	5426.83
15	Material and Supply	L/s		5426.83	5426.83
Sub Total					57110.47
4th Year Maintenance					
1	Cost of raising plants for 5% replacement	1 No.	50	21.71	1085.37
2	Reopening of Pits 50 x 0.50 x 0.50 x 0.40	1 m3	5	6472.04	323.60
3	Refilling of pits with earth in other soils 100 x 0.50 x 0.50 x 0.30	1 m3	3.75	29.82	111.81
4	Loading & Unloading of Plants	1 No.	55	2.67	146.85
5	Carriage of Plants (50+10% Wastage = 55 avg. distance upto 10 Km.)	100 No.	55	1.09	59.70
6	Spreading of plants pit to pit	100 No.	50	142.40	71.20
7	Re-Planting to plants	100 No.	50	248.65	124.32
8	Spot Irrigation	100 No.	50	222.50	111.25
9	Weeding & Hoeing (thrice)	100 No.	3000	388.04	11641.20
10	Hand Watering (8 Times)	100 No.	8000	222.50	17800.00
11	Pruning to Plants 30%	100 No.	300	420.70	1262.10
12	Watch & Ward for every 10 Ha. (7 months)	Man Year	1/10 Man Yr.	9256.00	6479.20
13	Repair of Barbed Wire	L/s		5426.83	5426.83
14	POL & Machinery	L/s		5426.83	5426.83
15	Material and Supply	L/s		5426.83	5426.83
Sub Total					55497.08

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	5th Year Maintenance				
1	Watch & Ward for every 10 Ha. (7 Motnts)	Man Year	1/10 Man Yr.	9256	6479.20
	Sub Total				6479.2
	6th Year Maintenance				
1	Watch & Ward for every 10 Ha. (7 Motnts)	Man Year	1/10 Man Yr.	9256	6479.20
	Sub Total				6479.2
	7th Year Maintenance				
1	Watch & Ward for every 10 Ha. (7 Motnts)	Man Year	1/10 Man Yr.	9256	6479.20
	Sub Total				6479.2
	8th Year Maintenance				
1	Watch & Ward for every 10 Ha. (7 Motnts)	Man Year	1/10 Man Yr.	9256	6479.20
	Sub Total				6479.2
	9th Year Maintenance				
1	Watch & Ward for every 10 Ha. (7 Motnts)	Man Year	1/10 Man Yr.	9256	6479.20
	Sub Total				6479.2
	10th Year Maintenance				
1	Watch & Ward for every 10 Ha. (7 Motnts)	Man Year	1/10 Man Yr.	9256	6479.20
	Sub Total				6479.2
	Total				487392.58
	Over Head expenses 5%				24369.63
	Wage Enhancement @ 10%				48739.26
	G. Total				560501.46
	Or Say				560501 Rs
	Cost of Compensatory Afforestation for 0.0549 ha.x2500=149 Plants x 560501 Rs Per Ha./1000				83,515/-
	Net Present Value = 0.0549 ha X 803000 Rs Per Ha.				44,085/-

Date:

Place: Patiala

Harbhajan Singh .PFS
Divisional Forest Officer,
Patiala Forest Division,
Patiala.

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Proposal No:- FP/PB/Trans/42211/2019

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"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme Addl. Compensatory Afforestation Estimate for diversion of 0.0594 ha. of forest land in favour of PSPCL for 66 KV G/S/S Devigarh to 66 KV G/S/S Roharjagir T-off for 66 KV G/S/S Bhasmara SC/DC Tower line on various forest strips in Patiala Range Tehsil Patiala & Distt. Patiala under Forest Division Patiala, Punjab.

Details of degraded forest land:- Bir Bhorey Agoul C NO 17,21,25 & 26

District Patiala Village : . Bhadson

Tehsil: Patiala

Name of Forest Division: Patiala Forest Range: Bhadson

Block No./Compartment No./Survey No. Bir Bhorey Agoul C NO 17,21,25 & 26

Area:-0.064 Ha.

Area to be afforested:- 0.064 Ha. Plantation will be planted on Bir Bhorey Agoul C NO 17,21,25 & 26

2. Description of Area:-

vii. Whether the site selected for Compensatory Afforestation is a land bank or not:- _____ Yes

viii. If the CA site is other than the land bank, reasons be given:-Land bank.

ix. In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:- N.A.

x. Soil type:-Heavy

xi. Topography:- a. Plain

b. Slope:-Gentle

xii. Whether the area is bearing any root stock of vegetation: Scattered .

3. Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up to be enclosed.

4. Schedule of Plantation Programme:-

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

0 th year	0.032	111626.16	3572
1 st Year	0.032	67793.27	2169.4
2 nd Year	0.032	45835.35	1466.7
3 rd Year	0.032	41768.97	1336.6


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4 th Year	0.032	29644.21	948.61
Supervision Charge	0.032	41533.52	1329.1
		338201.48	10822
		32 X 676	21632

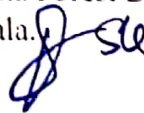
3. Technical Details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- i) General Details :-
- j) Spacement :- 3 x 3 mtr.
- k) Species :- Euc. Kikar ,Shisham Muscat, Arjun ,Neem,Jamun, Euc.,Mulb. etc.
- l) plantation Method :-Pit & Trenches
- m) Soil and Moisture Conservation Works :-
- n) Protection (Fencing, Watch man , People's Participation etc.):Fencing,
Watch Man
- o) Proposed Monitoring Mechanism :-Internal
- p) Any other information :-

Date:

Place: Patiala


Harbhajan Singh, PFS
Divisional Forest Officer,
Patiala Forest Division,
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Estimate for planting of Tall plants					Rate= 328
	Name of Work	Unit	Unit Cost (In Rs.)	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 Trolley	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

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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
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

Prepared by: [Signature]

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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
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	59.63	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

Div. Joint Forest Officer
Patiala Forest Division,
Patiala

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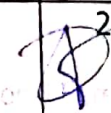
Full Title of the Projects:- Diversion of 0.0594 ha. of forest land in favour of PSPCL for 66 KV G/S/S Devigarh to 66 KV G/S/S Roharjagir T-off for 66 KV G/S/S Bhasmara SC/DC Tower line on various forest strips in Patiala Range Tehsil Patiala & Distt. Patiala under Forest Division Patiala, Punjab.

Proposal No:- FP/PB/Trans/42211/2019

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
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

Prepared by: 
Patiala Forest Division,

Patiala

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Full Title of the Projects:- Diversion of 0.0594 ha. of forest land in favour of PSPCL for 66 KV G/S/S Devigarh to 66 KV G/S/S Roharjagir T-off for 66 KV G/S/S Bhasmara SC/DC Tower line on various forest strips in Patiala Range Tehsil Patiala & Distt. Patiala under Forest Division Patiala, Punjab.

Proposal No:- FP/PB/Trans/42211/2019

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			
	Addl Compensatry Afforestation of Tall Plants	16 Plants x 2 = 32 Plants X 676 Rs			21,632/-

Date:
Place: Patiala


 Harbhajan Singh, PFS
 Divisional Forest Officer,
 Patiala Forest Division,
 Patiala.

25 NOV 2019