

Diversion of 0.858 ha of forest land for widening construction of road from karoli to Bana Enclave road km 0 to 1.200 village Nagrota HB. 372 area closed under section 4 of PLPA forest Division and District Pathankot. (By . Dibyendu Das No. 15513567K LD/Clk (SD), 17 HORSE PIN-912617 c/o 56 APO). Proposal No :- FP/PB/ROAD/115382/2020

## **CHECK LIST SERIAL NUMBER :-17**

### **“SCHEME FOR COMPENSATORY AFFORESTATION”**

Details scheme for compensatory Afforestation to be carried out in lieu of 0.858 ha. of forest land for widening construction of road from karoli to Bana Enclave road km 0 to 1.200 village Nagrota HB. 372 area closed under section 4 of PLPA 1900 forest Division and District Pathankot.

**1. Details of degraded forest land/non-forest land:-**

District Pathankot. BHAROLI Railway Station to Chotti nehar fatak area  
Tehsil Dhar kalan.

Name of Forest Division Pathankot Forest Division forest Range Dhar.

Block/ Compartment/Survey No.



Area to be afforested 1.716 ha (1716 Plants)

**2. Description of Area :-**

- i Whether the site selected for Compensatory Afforestation is a land bank or not :Yes
- ii If the CA site is other than the land bank , reasons be given :-N.A
- iii In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary :-N.A
- iv Soil type :- Heavy soil / Medium soil
- v Topography
  - a. Hilly/Undulating/Plan
  - b. Slope:- Steep/Medium/Gentle
- vi Whether the area is bearing any root stock of vegetation:-NO

**3. Plantation Model :-**

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

  
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**4. Schedule of Plantation Programme :-**

Details of year-wise break up of requirements of funds is as

under :-

Year	Area	Rate/ha.	Total amount
0 <sup>th</sup> year	1.716	238730.62	409661.7439
1 <sup>st</sup> year	1.716	86775.20	148906.2432
2 <sup>nd</sup> year	1.716	75712.30	129922.3068
3 <sup>rd</sup> year	1.716	59076.34	101374.9994
4 <sup>th</sup> year	1.716	997.36	1711.46976
5 <sup>th</sup> year	1.716	997.36	1711.46976
6 <sup>th</sup> year	1.716	997.36	1711.46976
7 <sup>th</sup> year	1.716	997.36	1711.46976
8 <sup>th</sup> year	1.716	997.36	1711.46976
9 <sup>th</sup> year	1.716	997.36	1711.46976
10 <sup>th</sup> year	1.716	997.36	1711.46976
			801846
B. Entry Point Activities including livelihood generation ( Strengthening of VFC, Trainings , Solar Lights etc) 10% of CA			80185
Barwed wire Estimate			360789.37
			<b>1242820</b>

**3. Technical details:-**

Technical details of Compensatory Afforestation Scheme are as follows:-

- General Details
- Spacing
- Species
- Plantation Method
- Soil and Moisture Conservation Works.
- Protection (Fencing Watch man, People's Participation etc.)
- Proposed Monitoring Mechanism

  
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# ESTIMATED COST FOR DEGRADED PLANTING IN PATHANKOT FOREST DIVISION

Diversion of 0.858 ha of forest land for widening construction of road from karoli to Bana Enclave road km o to 1.200 village Nagrota HB. 372 area closed under section 4 of PLPA forest Division and District Pathankot. (By . Dibyendu Das No. 15513567K LD/CIK (SD), 17 HORSE PIN-912617 c/o 56 APO). Proposal No :- FP/PB/ROAD/115382/2020

1) Diverted Forest Area = 0.858 Ha.				Daily Wage Rate @ 383.56/-	
2) Comp. Aff. Schme area = 1.716 ha.				Plants/Ha : 1000	
3) Name of Site of Plantation : BHAROLI Railway Station to Chotli nehar fatak area					
4) No. of plants Planted = 1.716 Plants					
5) Name of speices to be planted ( Khair, Amla, Bahera, Bamboo, Shisham,Mango, Juman, etc)					
Sr. No.	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
<b>A. Nursery</b>					
1	Cost of plant including (a) Original planting=1000 per ha. Replacement 10%= 100 per ha No. in P. bag (b) Total 1100	No	25.00	1100	27500
					27500
<b>B. Soil /Adv Works.</b>					
2	Cutting of Lantana Malha	Ha.	20921.36	0.60	12552.81
3	Lantana stubbing	Ha.	31381.49	0.20	6276.30
4	Uprooting of old stumps & Disposal	100 No.	76.70	100.00	76.70
5	Prepration of inspection path in Heavy Soil 50 Mtr x .20 Mtr x 1Mtr= 10 M3	M3	153.42	10.00	1534.20
6	Survey And Alignment	Ha	1533.97	1	1533.97
7	(a)Earth work i.e. digging of trenches Heavy Soil Size 750No. x 2 Mtr. x .40 Mtr x .35 Mtr = 210 m3	M3	153.42	210	32218
	(b) Earth work i.e. digging of pits 250No. X .50 Mtr x .5 Mtr x .4 Mtr = 25 M3	M3	153.42	25	3836
					58028
<b>C. Plantation</b>					
8	(a)Refilling of trenches 750 No x .0.50 Mtr x .40 Mtr x .30 Mtr = 45 m3	M3	30.97	45.00	1393.65
	(b)Refilling of pits 250no.x.50 x.50 x.35=21.87M3	M3	30.97	21.87	677.31
9	Carriage of plants by Tractor-Trolly	No	5.75	1000	5750.00
10	Carriage of plants by M/L lead 500mt.	No	11.58	1000	11580.00
11	Loading & unloading of plants	100 No	46.37	1000	463.70
12	Planting of plants	No	4.88	1000	4880.00
13	Application of Insecticides 1000 x 2 times=2000	100 No	67.00	2000	1340.00
14	Application of fertilizers 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
15	Prepration of round fencing including cutting carriage material (with binding)	No	28.76	150	4314.00
16	Fixing of Bamboo Tree Guard around plant	No	10.00	150	1500.00
17	Preperation of countinus brush wood fencing around plantation	100 Mtr.	1917.8	100	1917.80
	Total				35156.46
<b>D. Maintenance of Planting Year</b>					
18	Repair i.e. cleaning and dressing of inspection path	M3	153.42	5	767.10
19	Watch and ward for every 10 ha. Of plantation x 26 days	No.	38.36	26	997.36
20	Re-Cutting of lantana/mallaha 2nd and 3rd times. 0.50 x 2= 1	Ha	6961.00	1.00	6961.00
21	Weeding hoeing i.e. 2000mtr x 3 = 6000 mtr	Mtr	2.38	6000	14280.00
22	Application of Insecticides 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
23	Application of fertilizers (twice) 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
24	Desilting of Tranches 1000 Nox1.50x.35x25 = 131.25	Mtr	69.73	131.25	9152.06
25	Carriage of plants by Tractor-Trolly	No	5.74	100	574.00
26	Carriage of plants by M/L lead 500mt.	Mtr	11.58	100	1158.00
27	Loading & unloading of plants	100 No	46.37	100	46.37
28	Cutting of Tall Weeds 2 mtr wide (1000x2=2000)	100 mtr	95.87	2000	1917.00

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Sr. No.	Nature of Work Component	Unit	Unit Cost	Quantity	Amount
29	Providing thorny protection to plants against parcopine damage	100 No	191.70	400	766.80
30	Re -Planting of plants	No	4.88	100	488.00
31	Covering (25% Plants)	No.	3.41	250	852.50
32	Uncovering	No.	0.36	250	90.00
					<b>40730.19</b>
	<b>D. Material</b>				
33	Insecticides including carriage	litre	452.35	10	4523.50
34	Fertilizers i.e. urea etc. including carriage	kg	61.70	200	12340.00
35	cost of bamboo tree guard	No.	125.00	250	31250.00
36	Misc. Items ( tools, etc)	L/S			2500
37	POL				5000
					<b>55614</b>
	<b>Total Cost of Planting Year</b>				<b>217028</b>
	Contingency 10%				21703
	<b>Total Cost of Planting Year</b>				<b>238731</b>
	<b>1st Year Maintenance ( 30%)</b>				
1	Re-opening of trenches for replacement 225 x .50 m x .40 x .40m = 18 m <sup>3</sup>	M3	63.29	18.00	1139.17
2	Refilling of trenches 225 No. x 0.50m x 0.40m x 0.35m = 15.75 m <sup>3</sup>	M3	39.81	15.75	627.05
3	Reopening of Pits 75 x .50 x .50 x .35 = 6.56 M3	M3	25.00	6.56	164.00
4	Refilling of Pits 75 x .50 x .50 x .35 = 6.56 M3	M3	39.81	6.56	261.15
5	Nursery cost of plant	No	25.00	300	7500.00
6	Carriage of plants by Tractor-Trolley	No	5.75	300	1725.00
7	Carriage of plants by M/L labour lead 500mt.	100 Mtr	11.58	300	34.70
8	Loading & unloading of plants	100 No	46.37	300	139.11
9	Re- Planting of plants	No	4.88	300	1464.00
10	Weeding and hoeing to trenches (Twice)	Mtr	2.38	2000	4760.00
11	Application of insecticides (Twice)	100 No	67.00	2000	1340.00
12	Application of fertilizers (twice)	100 No	67.00	2000	1340.00
13	Repair of inspection path (Twice )	Mtr	153.42	200	30684
14	Cutting of lantana/mallah etc. per ha II & III times	Ha	6961.00	1.00	6961.00
15	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
16	Covering (25% Plants)	No.	3.41	250	852.50
17	Uncovering	No.	0.36	250	90.00
					<b>60079.05</b>
	<b>Cost of material</b>				
18	Insecticides including carriage	litre	452.35	10	4523.50
19	Fertilizers i.e. urea etc. including carriage	kg	33.92	200	6784.00
20	Misc. Items ( tools, etc)	L/S			2500
	POL	L/S			5000
					<b>18807.50</b>
	<b>Total</b>				<b>78886.55</b>
	Contingency 10%				7888.65
	<b>Total Cost of 1st Year Mtc</b>				<b>86775.20</b>
	<b>2nd Year Maintenance</b>				
1	Reopening of trenches for replacement 200 no x .50 m x .35M x .25m = 8.75 m <sup>3</sup>	M3	63.29	8.75	553.79
2	Refilling of trenches 200 No. x 0.50m x 0.35m x 0.25m = 8.75 m <sup>3</sup>	M3	39.81	8.75	348.34
3	Nursery cost of plant	No	25.00	200	5000.00
4	Carriage of plants in P bags i) M/L Average Lead 1.5 km	No	11.58	200	2316.00
5	ii) Tractor trolley average lead 15 km (1000 plants per trolley)	No	5.75	200	1150.00
6	Loading & unloading of plants from T/ Trolley	100 No	46.37	200	92.74
7	Re -Planting of plants	No	4.88	200	976
8	Weeding and hoeing to tranches (Twice)	Mtr.	2.38	2000	4760.00
9	Application of insecticides (Twice)	100 No	67.00	2000	1340.00

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Sr. No.	Nature of Work	Unit	Unit Cost	Quantity	Amount
	<b>Component</b>				
10	Application of fertilizers (Twice)	100 No	67.00	2000	1340.00
11	Repair of inspection path (Twice)	M3	153.42	200	30684.00
12	Lantana cutting (subsequent time 0.50 Ha) x 2 times =1.00	Ha	6961.00	1.00	6961.00
	<b>Total</b>				<b>55521.86</b>
	<b>Cost of material</b>				
13	Insecticide	Kg	452.35	10.00	4523.50
14	Fertilizers i.e. urea etc.	Kg	33.92	200.00	6784.00
	POL	L/S			2000.00
	<b>Total</b>				<b>13307.50</b>
	<b>Total</b>				<b>68829.37</b>
	<b>Contingency 10%</b>				<b>6882.94</b>
	<b>Total Cost of 2nd Year Mtc</b>				<b>75712.30</b>
	<b>3rd Year Maintenance</b>				
1	Reopening of trenches for replacement 100 no .50m x .35 m x .25m = 4.37 m3	M3	63.29	4.37	276.58
2	Refilling of trenches 100 No. x 0.50m x 0.35m x 0.25m = 4.37 m3	M3	39.81	4.37	173.97
3	Nursery cost of plant	No	25.00	100	2500.00
4	Carriage of plants by mannual labour lead 500mt.	100 Mtr.	11.58	100	1158.00
5	Loading & unloading of plants from T/ Trolly	100 No	46.37	100	4637.00
6	ii) Tractor trolly average lead 15 km (1000 plants per trolly)	No	5.75	100	575.00
7	Re-Planting of plants	No	4.88	100	488.00
8	Repair of Barwed Wire fence in hills	100 Mtr	122.52	1950	2389.00
9	Weeding and hoeing to tranches (Twice)	Mtr.	2.38	2000	4760.00
10	Cutting of lantana/mallaha IInd and IIIrd times.	Ha	6961.00	0.70	4872.70
11	Application of fertilizers	100 No	67.00	1000	6700.00
12	Repair of inspection path (Twice)	Mtr	153.42	200	30684.00
13	Pruning of plants	No.	10.00	250	2500.00
14	Jungle Clearance i.e. Bhang, Jhau tall weed etc.	No.	6276.10	0.2	1255.22
	<b>Total</b>				<b>52348.96</b>
	<b>Cost of material</b>				
15	Fertilizers i.e. urea etc.	Kg	33.92	40.00	1356.80
	<b>Total</b>				<b>1356.80</b>
	<b>Total Cost of 3rd maintenance</b>				<b>53705.76</b>
	<b>Contingency 10%</b>				<b>5370.58</b>
	<b>SubTotal Cost of 3rd year maintenance</b>				<b>59076.34</b>
	<b>4th Year Maintenance</b>				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	<b>Total</b>				<b>997.36</b>
	<b>5th Year Maintenance</b>				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	<b>Total</b>				<b>997.36</b>
	<b>6th Year Maintenance</b>				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	<b>Total</b>				<b>997.36</b>
	<b>7th Year Maintenance</b>				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	<b>Total</b>				<b>997.36</b>
	<b>8th Year Maintenance</b>				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	<b>Total</b>				<b>997.36</b>
	<b>9th Year Maintenance</b>				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	<b>Total</b>				<b>997.36</b>
	<b>10th Year Maintenance</b>				
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	<b>Total</b>				<b>997.36</b>
	<b>ABSTRACT</b>				
1	<b>Total Cost On Plantation Works</b>				<b>238730.62</b>

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Sr. No.	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
2	Total Cost of 1st year Maintenance				86775.20
3	Total Cost of 2nd year Maintenance				75712.30
4	Total Cost of 3rd year Maintenance				59076.34
5	Total Cost of 4th year Maintenance				997.36
6	Total Cost of 5th year Maintenance				997.36
7	Total Cost of 6th year Maintenance				997.36
8	Total Cost of 7th year Maintenance				997.36
9	Total Cost of 8th year Maintenance				997.36
10	Total Cost of 9th year Maintenance				997.36
11	Total Cost of 10th year Maintenance				997.36
	G.Total				467275.98
	Comp. Aff. Scheme for 1.00 Ha.				467275.98
				Or Say	467276.00
	Scheme Details				
	Compensatory afforestation scheme 0.858 X 2 = 1.716 ha plants 1716 ha		467276	1.716	801846
	B. Entry Point Activities including livelihood generation (Strengthening of VFC, Trainings, Solar Lights etc) 10% of CA	Rs			80185
				TOTAL	882030
	Barbed Wire Estimate				
	Component	Unit	Qty	Rate	Amount
	Fixing of cement fence Post including digging of pits 0.5 Mtr deep	100 No	422	1143	4823.46
	Layout and fixing of barbed wire per stand 5 Horizontal line and 2 Cross = 1266 Mtr x 7 = 8862 Mtr	100 Mtr	8862	52.42	4645.4604
	Cost of Pillar (including 10% sport fence post)	No	464	350	162400
	Cost of Barbed per KG (8862 / 8 mt) = 1108	kg	1108	155	171740
				Total	343608.9204
				5 % Contingency	17180.45
				Total of Wire	360789.37
				G TOTAL	1242819.54

  
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