Diversion of 0.208 ha for development of M/s Hill Side Concrete Plant at village Bringali H. B. No 610 Khasra No 83/3, 83/4 which is a delisted area of section 4 of PLPA 1900 Tehsil Mukerian Forest Division Dasuya and District Hoshiarpur .

User Agency:- Sh Mohan Lal S/o Sh Ran Singh (M/s Hill Side Concrete Plant)
Proposal No – FP/PB/Others/142313/2021

CHECK LIST SERIAL NUMBER :-6(i)

"SCHEME FOR COMPENSATORY AFFORESTATION"

Details scheme for compensatory afforestation to be carried out in lieu of **Diversion of 0.208 ha for development of M/s Hill Side Concrete Plan at village Bringali H. B. No 610 Khasra No 83/3, 83/4 which is a delisted area of section 4 of PIPA 1900 Tehsil Mukerian Forest Division Dasuya and District Hoshiarpur Details of degraded forest land/non forest land**

District **Hoshiarpur**. Village **R-IV Karanpur C-10**

Tehsil **Mukerian**

Name of Forest Division **Dasuya** forest Range Talwara-II

Block/ Compartment/Survey No. **Karanpur C-10 Forest**

Area to be afforested **0.520 ha**

2. **Description of Area :-**

i Whether the site selected for Compensatory Afforestation is a land bank or not : No

ii If the CA site is other than the land bank , reasons be given -

ii In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary

iv Soil type :- **Medium**

v Topography a. Hilly/Undulating/Plan
b. Slope:- Steep/Medium/Gentle

vi Whether the area is bearing any root stock of vegettion:-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. (a) Schedule of Plantation Programme :-

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

Plantation with Current Year Mtc.	0.5200	243073.20	126398.06
1st Year Maintenance	0.5200	73533.3	38237.32
2nd Year Maintenance	0.5200	58443.57	30390.66
III rd Year Maintenance	0.5200	46942.42	24410.06
IV th Year Maintenance	0.5200	11648.00	6056.96
V th Year Maintenance	0.5200	12454.00	6476.08
VI th Year Maintenance	0.5200	13338.00	6935.76
VII th Year Maintenance	0.5200	14274.00	7422.48
VIII th Year Maintenance	0.5200	15262.00	7936.24
IX th Year Maintenance	0.5200	16328.00	8490.36
X th Year Maintenance	0.5200	17472.00	9085.34
Comp. Scheme for 1.00 Ha. + Entry Point Activity 10% = 27184		**522768.49**	**299023.31**

Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

a) General Details

b) Spacing

c) Species : Sagwan, Bamboo Etc

d) Plantation Method

e) Soil and Moisture Conservation Works.

f) Protection (Fencing Watch man, People's Participation etc.)

g) Proposed Monitoring Mechanism.

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ESTIMATED COST FOR ENRICHMENT PLANTING IN SHIWALIKS

Diversion of 0.208 ha for development of M/s Hill Side Concrete Plan at village Bringali H. B. No 610 Khasra No 83/3, 83/4 which is a delisted area of section 4 of PIPA 1900 Tehsil Mukerian Forest Division Dasuya and District Hoshiarpur .

Proposal No FP/PB/Others/142313/2021

1) Diverted Forest Area = 0.208 Ha.			Daily Wage Rate @ 342
2) Comp. Aff. Schme area = 0.520 ha			Plants/Ha :500
3) Name of Site of Plantation : R-IV Karanpur C-10			
4) No. of plants Planted =260 plants			

Sr. No.	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
	A. Nursury				
1	Cost of seedling (upto tall plants) including (a) Original planting=500 per ha. (b) Replacement 10%= 50 per ha Total 550 No. in P. bag	No	75.00	550	41250
	B. Soil /Adv Works.				
2	Lantana stubbing	Ha.	27981.10	0.60	16788.66
3	Survey and alignment	Ha.	1368.00	1.00	1368.00
4	Earth work i.e. digging of trenches of Bouldry Soil size 500 No. x 2 Mtr. x .35 Mtr x .30 Mtr	M3	149.23	105	15669.15
					75076
	C. Plantation.				
5	Refilling of trenches 500 No x .0.60 Mtr x .35 Mtr x .25 Mtr = 26.25 m3	M3	27.62	26.25	725.03
6	Carriage of seedlings (Tall Plants) by Tractor-Trolly	No	10.83	500	5415
7	Carriage of seedlings (Tall Plants) by M/L lead 500mt.	Mtr	9.60	500	4800
8	Loading & unloading of plants (Tall Plants)	100 No	85.46	500	427.30
9	Planting of seedlings (Tall Plants)	No	10.26	500	5130
10	Fixing of cement concrete fence post including digging of pits 1/2 Mtr deep.	100 No.	1026.00	130	1334
11	Layout and Fixing of barwed wire per stand	100 Mtr	171.00	1950	3335
12	Application of Insecticides 500 x 2 times = 1000	100 No	59.83	1000	598.30
13	Application of fertilizers 500 x 2 times = 1000	100 No	59.83	1000	598.30
14	Prepration of inspection path in Bouldry Soil 50 Mtr x .10 Mtr x 1Mtr= 5 M3	M3	149.23	5	746.15
					23108.38
	D. Mtc on Planting Year				
15	Repair i.e. cleaning and dressing of inspection path	M3	149.23	5	746.15
16	Watch and ward for every 10 ha. Of plantation x 2.6 days	No.	342	26	8892.00
17	Cutting of lantana/mallaha 2nd and 3rd times. 0.50 x 2= 1	Ha	17890.00	1.00	17890.00
18	Weeding hoeing i.e. 1000m x 3 = 3000 m	Mtr	2.13	3000	6390
19	Application of Insecticides 500 x 1 times = 1000	100 No	59.83	500	299.15
20	Application of fertilizers (twice) 500 x 1 times = 1000	100 No	59.83	500	299.15
21	Re-Opening of Tranches 50 No x .0.50 Mtr x .35 Mtr x .25 Mtrm = 2.18 m3	Mtr	56.43	2.18	123.02

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E:\KK 2021-22\Click List\Ms Hill Side Concrete Plant\Estimate EP

Enrichment Planting

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Sr. No.	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
22	Carriage of seedlings (Tall Plants) by Tractor-Trolly	No	10.83	500	5415
23	Carriage of seedlings (Tall Plants) by M/L lead 500mt.	Mtr	9.60	50	480
24	Loading & unloading of plants (Tal Plants)	100 No	85.46	50	42.73
25	Re -Planting of seedlings (Tall Plants)	No	10.26	50	513
26	Covering (25% Plants)	No.	3.05	125	381.25
27	Uncovering	No.	0.33	125	41.25
					41513
	E. Material				
28	Insecticides including carriage	litre	452.35	5	2261.75
29	Fertilizers i.e. urea etc. including carriage	kg	33.92	100	3392.00
30	Misc. Items (tools, etc)	L/S			2500
31	Fence Post (Concrete)	No.	350.00	130	45500
32	Barwed Wire	kg	85.00	325	27625
					81279
	Total Cost of Planting Year				**220976**
	Countigency 10%				22098
	Total Cost of Planting Year				**243073**
	1st year Maintenance (Labour rate Rs. 366/-)				
1	Re-opening of trenches for replacement 125 x .50 m x .35 x .25m = 5.46 m3	M3	60.39	5.46	329.73
2	Refilling of trenches 125 No. x 0.50m x 0.35m x 0.25m = 5.46 m3	M3	37.99	5.46	207.43
3	Nursery cost of seedling (Tall Plants)	No	107.02	125	13377.19
4	Carriage of seedlings (Tall Plants) by Tractor-Trolly	No	11.59	125	1448.75
5	Carriage of seedlings (Tall Plants) by M/L labour lead 500mt.	100 Mtr	10.27	125	1284.21
6	Loading & unloading of plants (Tall Plants)	100 No	91.46	125	114.32
7	Re- Planting of seedlings (Tall Plants)	No	10.98	125	1372.50
8	Repair of Barwed Wire fence in hills	100 Mtr	109.16	1950	2129
9	Weeding and hoeing to trenches (Twice)	Mtr	2.28	2000	4558.95
10	Application of insecticides (Twice)	100 No	64.03	1000	640.29
11	Application of fertilizers (twice)	100 No	64.03	1000	640.29
12	Repair of inspection path (Twice)	Mtr	159.70	100	15970.22807
13	Cutting of lantana/mallah etc. per ha II & III times	Ha	6654.09	1.00	6654.09
14	Watch and ward for every 10 ha. Of plantation	No	366.00	26.00	9516
15	Covering (25% Plants)	No.	3.264035	125	408.00
16	Uncovering	No.	0.353158	125	44.14
					58694.71
	Cost of material				
17	Insecticides including carriage	litre	452.35	5	2261.75
18	Fertilizers i.e. urea etc. including carriage	kg	33.92	100	3392.00
19	Misc. Items (tools, etc)	L/S			2500
					8153.75
	Total				**66848.46**
	Countigency 10%				**6684.85**
	Total Cost of 1st Year Mtc				**73533.30**
	2nd Year Maintenance (Labour Rate Rs. 392/-)				
1	Reopening of trenches for replacement 75 nox .50 m x .35M x .25m = 3.28 m3	M3	64.68	3.28	212.15

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Sr. No.	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
2	Refilling of trenches 75 No. x 0.50m x 0.35m x 0.24m = 4.20 m3	M3	40.69	3.28	133.46
3	Nursery cost of seedling (Tall Plants)	No	114.62	100	11462.25
4	Carriage of seedlings (Tall Plants) in P bags i) M/L Average Lead 1.5 km	No	11.00	100	1099.96
5	ii) Tractor trolly average lead 15 km (1000 plants per trolly)	No	12.41	100	1241.33
6	Loading & unloading of plants (Tall Plants) from T/ Trolly	100 No	97.96	100	97.96
7	Re -Planting of seedlings (Tall Plants)	No	11.76	100	1176
8	Repair of Barwed Wire fence in hills	100 Mtr	116.91	1950	2280
9	Weeding and hoeing to tranches (Twice)	Mtr.	2.44	2000	4883.93
10	Application of insecticides (Twice)	100 No	68.58	1000	685.79
11	Application of fertilizers (Twice)	100 No	68.58	1000	685.79
12	Repair of inspection path (Twice)	M3	171.04	100	17104.48
13	Lantana cutting (subsequent time 0.50 Ha) x 2 times =1.00	Ha	6413.84	1.00	6413.84
	Total				**47476.77**
	Cost of material				
14	Insecticide	Kg	452.35	5.00	2261.75
15	Fertilizers i.e. urea etc.	Kg	33.92	100.00	3392.00
	Total				**5653.75**
	Total				**53130.52**
	Contigency 10%				**5313.05**
	Total Cost of 2nd Year Mtc				**58443.57**
	3rd Year Maintenance (Labour Rate Rs. 419/-)				
1	Reopening of trenches for replacement 50 no .50m x .35 m x .25m	M3	69.14	2.18	150.71
2	Refilling of trenches 50 No. x 0.50m x 0.35m x 0.25m	M3	43.49	2.18	94.81
3	Nursery cost of seedling (Tall Plants)	No	122.51	50	6125.74
4	Carriage of seedlings (Tall Plants) by mannual labour lead 500mt.	100 Mtr.	11.76	50	587.88
5	Loading & unloading of plants (Tall Plants) from T/ Trolly	100 No	104.71	50	52.35
6	ii) Tractor trolly average (Tall Plants) lead 15 km (1000 plants per trolly)	No	13.26	50	663.24
7	Re-Planting of seedlings (Tall Plants)	No	12.57	50	628.50
8	Repair of Barwed Wire fence in hills	100 Mtr	124.96	1950	2437
9	Weeding and hoeing to tranches (Twice)	Mtr.	2.61	2000	5216.12
10	Cutting of lantana/mallaha IInd and IIIrd times.	Ha	7617.66	0.70	5332.36
11	Application of fertilizers	100 No	73.30	500	366.52
12	Repair of inspection path (Twice)	Mtr	182.82	100	18282.08
13	Pruning of plants	No.	3.33	125	416.86
14	Jungle Clearance i.e. Bhang, Jhau tall weed etc.	No.	6856.07	0.2	1371.21
	Total				**41725.17**
	Cost of material				
15	Fertilizers i.e. urea etc.	Kg	33.92	28.00	949.76
	Total				**949.76**
	Total Cost of 3nd maintenance				**42674.93**
	Contigency 10%				**4267.49**
	SubTotal Cost of 3rd year maintenance				**46942.42**
	4th Year Maintenance (Labour rate Rs. 448/-)				

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Sr. No.	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
1	Watch and ward for every 10 ha. Of plantation	No	448.00	26.00	11648
	Total				11648.00
	5th Year Maintenance (Labour rate Rs. 479/-)				
1	Watch and ward for every 10 ha. Of plantation	No	479.00	26.00	12454
	Total				12454.00
	6th Year Maintenance (Labour rate Rs. 513/-)				
1	Watch and ward for every 10 ha. Of plantation	No	513.00	26.00	13338
	Total				13338.00
	7th Year Maintenance (Labour rate Rs. 549/-)				
1	Watch and ward for every 10 ha. Of plantation	No	549.00	26.00	14274
	Total				14274.00
	8th Year Maintenance (Labour rate Rs. 587/-)				
1	Watch and ward for every 10 ha. Of plantation	No	587.00	26.00	15262
	Total				15262.00
	9th Year Maintenance (Labour rate Rs. 628/-)				
1	Watch and ward for every 10 ha. Of plantation	No	628.00	26.00	16328
	Total				16328.00
	10th Year Maintenance (Labour rate Rs. 672/-)				
1	Watch and ward for every 10 ha. Of plantation	No	672.00	26.00	17472
	Total				17472.00
	ABSTRACT				
1	Total Cost On Plantation Works				243073.20
2	Total Cost of 1st year Maintenance				73533.30
3	Total Cost of 2nd year Maintenance				58443.57
4	Total Cost of 3rd year Maintenance				46942.42
5	Total Cost of 4th year Maintenance				11648.00
6	Total Cost of 5th year Maintenance				12454.00
7	Total Cost of 6th year Maintenance				13338.00
8	Total Cost of 7th year Maintenance				14274.00
9	Total Cost of 8th year Maintenance				15262.00
10	Total Cost of 9th year Maintenance				16328.00
11	Total Cost of 10th year Maintenance				17472.00
	G.Total				522768.48
	Comp. Aff. Scheme for 1.00 Ha.				522768.48
				Or Say	522768.00
	Comp. Aff. Scheme for 0.520 ha x 500 =260 plants	Rs	0.520	522768	271839.36
	Entry Point Activity 10%				27183.94
				Total	299023.30
	Net Present Value	Rs	0.208	626000	130208.00
				G.Total	429231.30

Note:- Labour Rate increased average 7% every year

Divisional Forest Officer,
Dasuya

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