Full Title of the Project: Diversion of 30.30 ha of forest land for construction of proposed road along canal (Kasur Branch Lower/ Khem Karan Distributory from village Jaoura originating from MDR-62 (Taran Taran-Patti Road) to Village Mehmoodpura RD 0 to 30.30 (Total length 30.30 KM) Tehil Patti, District Tarn Taran, Punjab, (Online proposal No. FP/PB/Road/53654/2020)

File No. : ______________________

Date of Proposal: ______________________

CHECK LIST SERIAL NUMBER: 6 (i) & (v)

"SCHEME FOR COMPENSATORY AFFORESTATION PLANTATION"

Detailed scheme for 61 Ha CA to be carried out in lieu of 30.30 Ha., of forest area to be diverted for **Diversion of 30.30 ha of forest land for construction of proposed road along canal (Kasur Branch Lower/ Khem Karan Distributory from village Jaoura originating from MDR-62 (Taran Taran-Patti Road) to Village Mehmoodpura RD 0 to 30.30 (Total length 30.30 KM) Tehil Patti, District Tarn Taran, Punjab, (Online proposal No. FP/PB/Road/53654/2020).**

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

   District: **Hoshiarpur** Village: **Manjhi, PF**

   Tehsil : **Hoshiarpur**

   Name of Forest Division: **Hoshiarpur** Range: **Hoshiarpur**
   Block/Compartment/Survey No.: **H.B. No. 497**
   Area to be afforested- **61 Ha CA in 80 Ha Polygon**

2. **Description of the 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 : ___-

   III) 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 : **Heavy Soil.**

   V) Topography :

   (a) **Hilly**/Undulating/Plain

   (b) Slope: Steep/**Medium**/Gentle

   VI) Whether the area is bearing any root stock of vegetation: **NIL**

3. **Plantation Model:-**

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

Divisional Forest Officer
Hoshiarpur Forest Division
Hoshiarpur
8 22/03/2022

D:\FCA (Santosh)\Forests Clearance.mc and CA Cases Hard Copies CA Sites for other divisions FCA cases Division\Area Road\30.30 Ha CA Covering letter & Land Suitable Certificates etc.docx

ESTIMATED COST FOR DEGRADED PLANTING IN SHIWALIKS

Diversion of 30.30 ha of forest land for construction of proposed road along canal (Kasur Branch Lower/ Khem Karan Distributory from village Jaoura originating from MDR-62 (Taran Taran-Patti Road) to Village Mehmoodpura RD 0 to 30.30 (Total length 30.30 KM) Tehil Patti, District Tarn Taran, Punjab, (Online proposal No. FP/PB/Road/53654/2020).

1) Diverted Forest Area = 30.30 Ha. — Daily Wage Rate @ 383.56/-

2) Comp. Aff. Schme area = 61 ha — Plants/Ha : 1000

3) Name of Site of Plantation : Manjhi PF, H.B.No. 497

4) No. of plants Planted = 61*1000 = 61000 Plants

5. Name of speices to be planted (Khair, Shisham, Amala, Bamboo, Jamun, Arjun, etc)

Sr. No.	Nature of Work / Component	Unit	Unit Cost	Quantity	Amount
	A. Nursery				
1	Cost of seedling including development of Nursary (a) Original planting=1000 per ha. (b) Replacement 10%= 100 per ha Total 1100 No. in P. bag	No	59.67	1100	65633
					65633
	B. Soil /Adv Works.				
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 .10 Mtr x 1Mtr= 5 M3	M3	153.42	5.00	767.10
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
					57261
	C. Plantation				
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 seedlings by Tractor-Trolly	No	5.75	1000	5750.00
10	Carriage of seedlings by M/L lead 500mt.	Mtr	11.58	1000	11580.00
11	Loading & unloading of plants	100 No	46.37	1000	463.70
12	Planting of seedlings	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	Planting of Bhabbar Grass including extraction and carriage of Tussocks	100 No.	12.10	2000	242.00
16	Prepration of round fencing including cutting carriage material (with binding)	No	28.76	500	14380.00
17	Fixing of Bamboo Tree Guard around plant	No	10.00	250	2500.00
					44546.66
	D. Maintenance of Planting Year				
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	Hand watering to plants 300 no	No	3.83	300	1149.00
23	Application of Insecticides 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
24	Application of fertilizers (twice) 1000 x 2 times = 2000	100 No	67.00	2000	1340.00
25	Desilting of Tranches 1000 Nox1.50x.35x25 = 131.25	Mtr	69.73	131.25	9152.06
26	Carriage of seedlings by Tractor-Trolly	No	5.74	100	574.00
27	Carriage of seedlings by M/L lead 500mt.	Mtr	11.58	100	1158.00
28	Loading & unloading of plants	100 No	76.37	100	76.37
29	Cutting of Tall Weeds 2 mtr wide (1000x2=2000)	100 mtr	95.87	2000	1917.00

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S. No.	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
30	Providing thorny protection to plants against parcopine damage	100 No	191.70	400	766.80
31	Re -Planting of seedlings	No	4.88	100	488.00
32	Covering (25% Plants)	No.	3.41	250	852.50
33	Uncovering	No.	0.36	250	90.00
					41909.19
	D. Material				
34	Insecticides including carriage	litre	452.35	10	4523.50
35	Fertilizers i.e. urea etc. including carriage	kg	61.70	200	12340.00
36	Bamboo Tree Guard	No	125.00	250	31250.00
37	Misc. Items (tools, etc)	L/S			2500
					50614
	Total Cost of Planting Year				259963
	Contigency 10%				25996
	Total Cost of Planting Year				285960
	1st Year Maintenance				
1	Re-opening of trenches for replacement 225 x .50 m x .40 x .40m = 18 m³	M3	63.29	18.00	1139.17
2	Refilling of trenches 225 No. x 0.50m x 0.40m x 0.35m = 15.75 m3	M3	39.81	15.75	627.05
3	Reopening of Pits 75 x.50 x .50 x .35 = 6.56 M3	M3	63.29	6.56	415.18
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 seedling	No	59.67	300	17901.00
6	Carriage of seedlings by Tractor-Trolly	No	5.75	300	1725.00
7	Carriage of seedlings 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 seedlings	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
					70731.23
	Cost of material				
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
					18807.50
	Total				89538.73
	Contigency 10%				8953.87
	Total Cost of 1st Year Mtc				98492.60
	2nd Year Maintenance				
1	Reopening of trenches for replacement 200 no x .50 m x .35M x .25m = 8.75 m3	M3	63.29	8.75	553.79
2	Refilling of trenches 200 No. x 0.50m x 0.35m x 0.25m = 8.75 m3	M3	39.81	8.75	348.34
3	Nursery cost of seedling	No	59.67	200	11934.00
4	Carriage of seedlings in P bags i) M/L Average Lead 1.5 km	No	11.58	200	2316.00
5	ii) Tractor trolly average lead 15 km (1000 plants per trolly)	No	5.75	200	1150.00
6	Loading & unloading of plants from T/ Trolly	100 No	46.37	200	92.74
7	Re -Planting of seedlings	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
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
	Total				62455.87
	Cost of material				
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

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Hoshiarpur. 28/03/2022

	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
	Total				13307.50
	Total				75763.37
	Contigency 10%				7576.34
	Total Cost of 2nd Year Mtc				83339.70
	3rd Year Maintenance				
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 seedling	No	59.67	100	5967.00
4	Carriage of seedlings 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	46.37
6	ii) Tractor trolly average lead 15 km (1000 plants per trolly)	No	5.75	100	575.00
7	Re-Planting of seedlings	No	4.88	100	488.00
8	Repair of Barwed Wire fence in hills	100 Mtr	122.52	1950	2389
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	670.00
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
	Total				55815.96
	Cost of material				1356.80
15	Fertilizers i.e. urea etc.	Kg	33.92	40.00	1356.80
	Total				57172.76
	Total Cost of 3nd maintenance				5717.28
	Contigency 10%				62890.04
	SubTotal Cost of 3rd year maintenance				
	4th Year Maintenance				997.36
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				
	5th Year Maintenance				997.36
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				
	6th Year Maintenance				997.36
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				
	7th Year Maintenance				997.36
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				
	8th Year Maintenance				997.36
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				
	9th Year Maintenance				997.36
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				
	10th Year Maintenance				997.36
1	Watch and ward for every 10 ha. Of plantation	No	38.36	26.00	997.36
	Total				
	ABSTRACT				285959.78
	Total Cost On Plantation Works				98492.60
1	Total Cost of 1st year Maintenance				83339.70
2	Total Cost of 2nd year Maintenance				62890.04
3	Total Cost of 3rd year Maintenance				997.36
4	Total Cost of 4th year Maintenance				997.36
5	Total Cost of 5th year Maintenance				997.36
6	Total Cost of 6th year Maintenance				997.36
7	Total Cost of 7th year Maintenance				997.36
8	Total Cost of 8th year Maintenance				997.36
9	Total Cost of 9th year Maintenance				997.36
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	Nature of Work	Unit	Unit Cost	Quantity	Amount
	Component				
11	Total Cost of 10th year Maintenance				997.36
	G.Total				537663.64
	Comp. Aff. Scheme for 1.00 Ha.				506039.00
				Or Say	506039.00
	Scheme Details				
	A. Comp. Aff. Scheme for 61 ha x 1000 = 61000 plants	Ha	506039	61	30868379.00
	B. Entry Point Activities including livelihood generation (Strengthning of JFMC's, Trainings , Solar Lights etc) 10% of CA	Rs			3086838
	C. Soil and water conservation works				
1	Dry Stone	Cum	1245.00	800	996000
2	Brush Wood Check Dam	Mtr	173.00	550	95150
3	Single Line Live Hedge	Mtr	110.00	2000	220000
4	Crate wire structure	Cum	2700.00	500	1350000
5	Cement Messonary Work	cum	5150.00	500	2575000
					5236150
	D. Forest Protection and Monitoring				
1	Fixing of brush wood fencing around plantation	100Mtr.	1917.8	3000	57534.00
2	Fire Protection Equipments (Tractor driven water spray pump)	No	100000	1	100000.00
3	Fire Fiting Equipments (Uniforms, Gloves etc.)	No	100000	1	100000.00
4	Multi Utility vechile (4X4) for patrolling in this terrain	No	1700000	1	1700000.00
5	Watch Tower	No	1000000	1	1000000.00
6	Setting up of Boundry Pillars	No	2500	500	1250000.00
7	Digitization of Forest Boundaries using DGPS	Acr.	550	2400	1320000.00
					5527534.00
	E. Irrigation facilities				
1	Bore Well with Pump House	No	800000	1	800000.00
2	Tractor	No.	1000000	1	1000000.00
				Total	1800000.00
	F. Misc.				
1	Prepration of Seed ball and dispersal	L/s		100000	100000.00
				Total	100000.00
				G. Total	46618900.90
				Or Say	46618901/-

Divisional Forest Officer
Hoshiarpur Forest Division
Hoshiarpur
22/3/2022