

Proposal No. FP/PB/Pipeline/42400/2019

Full Title of the Project:- Diversion of 0.003125 hec of Forest Area for Approach Road to Irrigation Project of underground pipes of Jatana-Kusla Link Road, Jhunir-Singo Link Road, Fatta-Tibbi-Churdia Link Road & Moosa Branch, Village Nangla, District Mansa, Under Forest Division Mansa, Punjab.

File No. : _____

Date of Proposal:- _____

CHECK LIST SERIAL NUMBER:- 6 (i)

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for Compensatory Afforestation to be carried out in lieu of Diversion of 0.003125 hec of Forest Area for Approach Road to Irrigation Project of underground pipes of Jatana-Kusla Link Road, Jhunir-Singo Link Road, Fatta-Tibbi-Churdia Link Road & Moosa Branch, Village Nangla, District Mansa, Under Forest Division Mansa, Punjab.

Details of degraded forest land:- Ghuman Disty RD 0 to 20 B/S

District: Mansa Beat: Ralla Block: Bhikhi

Tehsil: Mansa

Name of Forest Division: Mansa

Forest Range: Mansa

Area to be afforested: 0.100 ha.

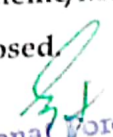
2. Description of Area:-

- 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: -Land bank.
- 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:- Sandy Loam
- v. Topography:- a. Plain
- vi. b. Slope:-Gentle

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

3. Plantation Model:-

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


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4. Schedule of Plantation Programme:-

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

Year	Area (ha.)	Rate/ha.	Total Amount
		514711 per ha.	100 Plants
0th Year	0.100	190098.76	19009.88
1th Year	0.100	74640.67	7464.07
2th Year	0.100	46615.42	4661.54
3th Year	0.100	43348.95	4334.90
4th Year	0.100	40135.38	4013.54
5th Year	0.100	8789.30	878.93
6th Year	0.100	8789.30	878.93
7th Year	0.100	8789.30	878.93
8th Year	0.100	8789.30	878.93
9th Year	0.100	8789.30	878.93
10th Year	0.100	8789.30	878.93
	Total	447574.98	44757.50
Over Head expenses 5%		22378.75	
Wage Enhancement @ 10%		44757.50	
	Total	67136.25	6713.62
G.Total			51,471.12
Or Say			51471

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 :-

Place: Mansa

Date: 27-10-2022


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

Land Bank: Ghuman Disty. RD 0-20 B/s

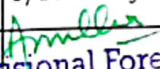
Sr. No.	Name of Work	Unit	Qty	Wage Rate:	338.05/-
	Nursery				
	Nursery cost of raising plants	1100	1100	20.61	22674.09
A	Soil Work				
1	Site /Jungle Clearance (25%)	Ha.	0.5	5531.67	2765.84
2	Alignment & Dagbailing	Ha.	1	1014.15	1014.15
3	Earth Work- (a) Digging of Pits 1000x 0.5m x0.5m x0.4m	1M ³	100	104.49	10448.63
4	Kana Stubbing 25%	Ha.	0.25	27658.26	6914.57
B	Plantation Work			0.00	
1	Refilling of Pits 1000x0.5mx0.5mx0.3	100 cum	75	2831.17	2123.38
2	Loading & Unloading of Plants (1000+10% Wastage=1100)	100 No.	1100	566.85	6235.37
3	Carriage of Plants (1000+10% Wastage= 1100 avg. distance upto 10 km.)	100 No.	1100	202.83	2231.13
4	i) Carriage from site to site	100 No.	1000	135.22	1352.20
	ii) Planting of Plants (1000 No. including 10% replacement)	100 No.	1000	1014.15	10141.50
5	Spot Irrigation (1000 Plants)	100 No.	1000	211.28	2112.81
6	Application of Insecticide (2 times)	100 No.	1000	42.26	422.56
7	Application of Fertilizers (2 times)	100 No.	1000	42.26	422.56
8	Weeding & Hoeing 3 times	100 No.	3000	368.47	11054.24
9	Hand Watering (12 Times)	100 No.	12000	211.28	25353.75
10	Replanting of Plants 10%	100 No.	100	596.85	596.85
11	Rejungle Clearance (2 times)	Per Ha.	1	2450.86	2450.86
12	Covering (25% plants) of plants	100 No.	250	304.25	760.61
13	Uncovering of plants	100 No.	250	33.81	84.51
14	Restubbing of Kana (1 time)	Ha.	0.25	27658.57	6914.64
15	Laying out & fixing of Barbed Wire	L/s		0.00	7872.00
16	Watch & Ward for every 10 Ha. (7 months)	Man year	1Man 7 Month	8789.30	6152.51
17	Material				
	i) Insecticides/Fertilizers	L/s			5000.00
	ii) POL	L/s			5000.00
	iii) Barbed Wire	L/s			50000.00
			Sub Total		190098.76

Maintenance I Year

1	Cost of raising plants for 30% replacement	1 No.	300	20.61	6183.84
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	22.5	61.46	1382.78
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.50 x 0.30	1 m3	22.5	28.31	637.61
4	Loading & Unloading of Plants	1 No.	300	2.54	762.01
5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	100 No.	1	202.21	202.21
6	Spreading of plants pit to pit	100 No.	165	135.22	223.11
7	Re-planting Tall Plants	100 No.	165	339.16	576.62
8	Spot Irrigation	100 No.	165	211.28	348.61
9	Weeding & Hoeing (thrice)	100 No.	3000	368.47	11054.24
10	App. of Insecticide (two times)	100 No.	1000	42.26	422.56
11	App. of Fertilizers (two times)	100 No.	1000	42.26	422.56
12	Hand watering (6 Times)	100 No.	6000	368.47	22108.47
13	Rejungle Clearance (2 times)	Ha.	1	2450.86	2450.86
14	Restubbing of Kana	Ha.	0.25	27658.26	6914.57
15	Watch & Ward for every 10 Ha. (10 months)	Man year	1/10 Man yr.	8789.30	5969.60
16	Repair of Barbed Wire	L/s			5000.00
17	POL & Machinery	L/s			5000.00
18	Material and supply	L/s			5000.00
			Sub Total		74640.67

Maintenance II Year

1	Cost of raising plants for 15% replacement	1 No.	150	20.61	3091.92
2	Reopening of Pits 75 x 0.60 x 0.60 x 0.40	1 m3	10.8	61.46	644.00
3	Refilling of pits with earth in other soils 75 x 0.60 x 0.60 x 0.40	1 m3	10.8	28.31	296.68
4	Loading & Unloading of Plants	1 No.	75	2.54	190.15
5	Carriage of Plants Wastage = 75 avg. distance upto 10 km.)	500 No.	1	202.21	202.21
6	Spreading of plants pit to pit	100 No.	75	135.22	101.42
7	Re-planting to plants	100 No.	75	236.11	177.08
8	Spot Irrigation	100 No.	75	211.28	158.46
9	Weeding & Hoeing (twice)	100 No.	2000	368.47	7369.49
10	Hand Watering 5 Times	100 No.	5000	211.28	10564.06
11	Rejungle Clearance (2 times)	Ha.	1	2450.86	2450.86
12	Pruning to plants	100 No.	100	399.49	399.49
13	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	8789.30	5969.60
14	Repair of Barbed Wire	L/s			5000.00
15	POL & Machinery	L/s			5000.00
16	Material and supply	L/s			5000.00
			Sub Total		46615.42


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Maintenance III Year

1	Cost of raising plants for 10% replacement	1 No.	100	20.61	2061.28
2	Reopening of Pits 50 x 0.60 x 0.60 x 0.40	1 m3	7.2	61.46	442.49
3	Refilling of pits with earth in other soils 50 x 0.60 x 0.60 x 0.40	1 m3	7.2	28.31	203.84
4	Loading & Unloading of Plants	1 No.	100	2.54	253.54
5	Carriage of Plants 50 avg. distance upto 10 km.)	100 No.	100	1.03	103.06
6	Spreading of plants pit to pit	100 No.	100	135.22	135.22
7	Re-planting to plants	100 No.	100	236.11	236.11
8	Spot Irrigation	100 No.	100	211.28	211.28
9	Weeding & Hoeing (twice)	100 No.	2000	368.47	7369.49
10	Hand Watering (5 times)	100 No.	5000	211.28	10564.06
11	Pruning to plants 20%	100 No.	200	399.49	798.97
12	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	8789.30	5969.60
13	Repair of Barbed Wire	L/s			5000.00
14	POL & Machinery	L/s			5000.00
15	Material and supply	L/s			5000.00
			Sub Total		43348.95

Maintenance IV Year

1	Cost of raising plants for 5% replacement	1 No.	50	20.61	1030.64
2	Reopening of Pits 50 x 0.60 x 0.60 x 0.40	1 m3	7.2	61.46	442.49
3	Refilling of pits with earth in other soils 50 x 0.60 x 0.60 x 0.40	1 m3	7.2	28.31	203.84
4	Loading & Unloading of Plants	1 No.	50	2.54	126.77
5	Carriage of Plants = 25 avg. distance upto 10 km.)	500 No.	50	1.03	51.53
6	Spreading of plants pit to pit	100 No.	50	135.22	67.61
7	Re-planting to plants	100 No.	50	236.11	118.05
8	Spot Irrigation	100 No.	50	211.28	105.64
9	Weeding & Hoeing (twice)	100 No.	2000	368.47	7369.49
10	Hand Watering (4 Times)	100 No.	4000	211.28	8451.25
11	Pruning to plants 30%	100 No.	300	399.49	1198.46
12	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	8789.30	5969.60
13	Repair of Barbed Wire	L/s			5000.00
14	POL & Machinery	L/s			5000.00
15	Material and supply	L/s			5000.00
			Sub Total		40135.38

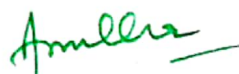
Maintenance V Year

1	Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8789.30	8789.30
			Sub Total		8789.30

Maintenance VI Year

1	Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8789.30	8789.30
			Sub Total		8789.30

Maintenance VII Year					
1	Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8789.30	8789.30
			Sub Total		8789.30
Maintenance VIII Year					
1	Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8528	8789.30
			Sub Total		8789.30
Maintenance IX Year					
1	Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8789.30	8789.30
			Sub Total		8789.30
Maintenance X Year					
1	Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8789.30	8789.30
			Sub Total		8789.30
			Total		447574.99
	Over Head expenses 5%				22378.75
	Wage Enhancement @ 10%				44757.50
			G.Total		514711.24
			Or Say		514711
	Cost of forest land (NPV)	0.003125	957780		2993
	Cost of Compensatory Afforestation as per area	0.100	514711		51471
	Entry Point Activity	0.00	0		5147
	G.Total				59611


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