

Proposal No. FP/PB/ROAD/37596/2018

Full Title of the Project:- Diversion of 0.616 hec of Forest area in favour of Executive Engineer Construction Division, PWD B & R, Sangrur for construction of Toll Plaza on Bhawanigarh-Sunam-Bhikhi-Kotshamir Road from RD 48.470 to 49.050 under District Mansa & Forest Division Mansa. (Punjab)

Date of Proposal:- 12-12-2018

CHECK LIST SERIAL NUMBER:- 6 (i)

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for Compensatory Afforestation to be carried out in lieu of Diversion of 0.616 hec of Forest area in favour of Executive Engineer Construction Division, PWD B & R, Sangrur for construction of Toll Plaza on Bhawanigarh-Sunam-Bhikhi-Kotshamir Road from RD 48.470 to 49.050 under District Mansa & 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: 2.64 ha.

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

iv. adjoining forest boundary: - N.A.

v. Soil type:- Sandy Loam

vi. 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 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
0th Year	2.64	186465.05	492267.73
1th Year	2.64	73045.06	192838.96
2th Year	2.64	45880.96	121125.73
3th Year	2.64	42683.63	112684.78
4th Year	2.64	39565.60	104453.18
5th Year	2.64	5969.60	15759.74
6th Year	2.64	5969.60	15759.74
7th Year	2.64	5969.60	15759.74
8th Year	2.64	5969.60	15759.74
9th Year	2.64	5969.60	15759.74
10th Year	2.64	5969.60	15759.74
Total		423457.90	1117928.86
Over Head expenses 5%		21172.90	
Wage Enhancement @ 10%		42345.79	
Total		63518.69	167689.33
G.Total			1285618.18
Or Say			1285619.00

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

FP No. FP/PB/ROAD/37596/2018

No. 1

1000 Nos.

Land Bank: Ghumdan Disty RD 0 to 20 B/S

Divisional Forest Officer
Mansa Forest Division
Mansa

Maasa

Maintenance I Year				
1	Cost of raising plants for 30% replacement	1 No.	300	20
2	Reopening of Pits 300 x 0.50 x 0.50 x 0.30	1 m3	22.5	59.63
3	Refilling of pits with earth in other soils 300 x 0.50 x 0.30	1 m3	22.5	27.47
4	Loading & Unloading of Plants	1 No.	300	2.46
5	Carriage of Plants (300+10% Wastage=330 avg. distance upto 10 km.)	100 No.	1	196.2
6	Spreading of plants pit to pit	100 No.	165	131.2
7	Re-planting Tall Plants	100 No.	165	329.08
8	Spot Irrigation	100 No.	165	205
9	Weeding & Hoeing (thrice)	100 No.	3000	357.52
10	App. of Insecticide (two times)	100 No.	1000	41
11	App. of Fertilizers (two times)	100 No.	1000	41
12	Hand watering (6 Times)	100 No.	6000	357.52
13	Rejungle Clearance (2 times)	Ha.	1	2378
14	Restubbing of Kana	Ha.	0.25	26836
15	Watch & Ward for every 10 Ha. (10 months)	Man year	1/10 Man yr.	8528
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				73045.06
Maintenance II Year				
1	Cost of raising plants for 15% replacement	1 No.	150	20
2	Reopening of Pits 75 x 0.60 x 0.60 x 0.40	1 m3	10.8	59.63
3	Refilling of pits with earth in other soils 75 x 0.60 x 0.60 x 0.40	1 m3	10.8	27.47
4	Loading & Unloading of Plants	1 No.	75	2.46
5	Carriage of Plants Wastage = 75 avg. distance upto 10 km.)	500 No.	1	196.2
6	Spreading of plants pit to pit	100 No.	75	131.2
7	Re-planting to plants	100 No.	75	229.09
8	Spot Irrigation	100 No.	75	205
9	Weeding & Hoeing (twice)	100 No.	2000	357.52
10	Hand Watering 5 Times	100 No.	5000	205
11	Rejungle Clearance (2 times)	Ha.	1	2378
12	Pruning to plants	100 No.	100	387.61
13	Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	8528
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				45880.96

Manisa
Manisa Forest Division
Divisional Forest Officer

Maintenance III Year

Cost of raising plants for 10% replacement	1 No.	100	20	2000.00
Reopening of Pits 50 x 0.60 x 0.60 x 0.40	1 m3	7.2	59.63	429.34
Refilling of pits with earth in other soils	1 m3	7.2	27.47	197.78
Loading & Unloading of Plants	1 No.	100	2.46	246.00
Carriage of Plants 50 avg. distance upto 10 km.)	100 No.	100	1.0	100.00
Spreading of plants pit to pit	100 No.	100	131.2	131.20
Re-planting to plants	100 No.	100	229.09	229.09
Spot Irrigation	100 No.	100	205	205.00
Weeding & Hoeing (twice)	100 No.	2000	357.52	7150.40
Hand Watering (5 times)	100 No.	5000	205	10250.00
Pruning to plants 20%	100 No.	200	387.61	775.22
Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	8528	5969.60
Repair of Barbed Wire	L/s			5000.00
POL & Machinery	L/s			5000.00
Material and supply	L/s			5000.00
Sub Total				42683.63

Maintenance IV Year

Cost of raising plants for 5% replacement	1 No.	50	20	1000.00
Reopening of Pits 50 x 0.60 x 0.60 x 0.40	1 m3	7.2	59.63	429.34
Refilling of pits with earth in other soils	1 m3	7.2	27.47	197.78
Loading & Unloading of Plants	1 No.	50	2.46	123.00
Carriage of Plants = 25 avg. distance upto 10 km.)	500 No.	50	1.0	50.00
Spreading of plants pit to pit	100 No.	50	131.2	65.60
Re-planting to plants	100 No.	50	229.09	114.55
Spot Irrigation	100 No.	50	205	102.50
Weeding & Hoeing (twice)	100 No.	2000	357.52	7150.40
Hand Watering (4 Times)	100 No.	4000	205	8200.00
Pruning to plants 30%	100 No.	300	387.61	1162.83
Watch & Ward for every 10 Ha.	Man year	1/10 Man yr.	8528	5969.60
Repair of Barbed Wire	L/s			5000.00
POL & Machinery	L/s			5000.00
Material and supply	L/s			5000.00
Sub Total				39565.60

Maintenance V Year

1	Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8528	5969.60
					5969.60

Maintenance VI Year

1	Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8528	5969.60
					5969.60

Sub Total

Mansa Forest Division
Mansa

Divisional Forest Officer
Mansa Forest Division
Mansa

Maintenance VII Year				
Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8528	5969.60
Maintenance VIII Year				
Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8528	5969.60
Maintenance IX Year				
Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8528	5969.60
Maintenance X Year				
Watch & Ward for every 10 Ha. (10 Months)	Man year	1/10 Man yr.	8528	5969.60
		Sub Total		5969.60
		Maintenance X Year		
Over Head expenses 5%				21172.89
Wage Enhancement @ 10%				42345.79
		G.Total		486976.57
		Or Say		486977
Cost of forest land (NPV)	0.616	887000		546392
Cost of Compensatory Afforestation as per area	2.64	486977		1285619

• No.

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Divisional Forest Officer
Manisa Forest Division

Maintenance I Year				
1	Cost of plants for 30% replacement	1 No.	60	150
2	Reopening of Pits 150 x 0.60 x 0.40	1 m3	59.63	21.6
3	Refilling of pits with earth in other soils 150 x 0.60 x 0.40	1 m3	27.47	21.6
4	Loading & Unloading of Plants	1 No.	2.46	150
5	Carriage of Plants (150+10% Wastage=330 avg. distance upto 10 km.)	500 No.	196.2	1
6	Spreading of plants pit to pit	100 No.	131.2	165
7	Re-planting Tall Plants	100 No.	329.08	165
8	Spot Irrigation	100 No.	205	165
9	Weeding & Hoeing (thrice)	100 No.	357.52	1500
10	App. of Fertilizer (two times)	100 No.	41	1000
11	App. of Insecticide (two times)	100 No.	41	1000
12	Hand watering 6 months x 2 times = 12 times	100 No.	357.52	6000
13	Rejungle Clearance (2 times)	Ha.	2378	1
14	Restubbing of Kana	Ha.	26836	0.25
15	Watch & Ward for every 10 Ha. (10 months)	Man year	8528	1/10 Man yr.
16	POL	L/s		
17	Material and supply	L/s		
Sub Total				67793.27
Maintenance II Year				
1	Cost of plants for 15% replacement	No.	60	75
2	Reopening of Pits 75 x 0.60 x 0.40	1 m3	59.63	10.8
3	Refilling of pits with earth in other soils 75 x 0.60 x 0.40	1 m3	27.47	10.8
4	Loading & Unloading of Plants	1 No.	2.46	75
5	Carriage of Plants = 75 avg. distance upto 10 km.)	500 No.	196.2	1
6	Spreading of plants pit to pit	100 No.	131.2	75
7	Re-planting to tall plants	100 No.	229.08	75
8	Spot Irrigation	100 No.	205	75
9	Weeding & Hoeing (twice)	100 No.	357.52	1500
10	Hand Watering 10 Times	100 No.	205	5000
11	Rejungle Clearance (2 times)	Ha.	2378	1
12	Stubbing of Kana	Ha.	26836	0.1
13	Pruning to plants	100 No.	387.61	100
14	Watch & Ward for every 10 Ha.	Man year	8528	1/10 Man yr.
15	POL	L/s		
16	Material and supply	L/s		
Sub Total				67793.27

G. Total

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