

**CHECK LIST SERIAL NUMBER : 18**  
**“SCHEME FOR COMPENSATORY AFFORESTATION”**

**Full Title of the Project :** Access road to cart the soil from Khodiya Kheri village Non Forest Land for Construction of Eight Lane Carriageway Starting Near Junction with NH-76 to Junction with NH-12 near Village Ummedpura (Ch.388.420 to Ch.419.00)

**File No. :-** FP/RJ/Approach/153700/2022

Detail scheme for Compensatory Access road to cart the soil from Khodiya Kheri village Non Forest Land for Construction of Eight Lane Carriageway Starting Near Junction with NH-76 to Junction with NH-12 near Village Ummedpura (Ch.388.420 to Ch.419.00) Afforestation to Kota district.

**1. Details of Degraded forest land :-**

District- kota , Village- Kasar, Teshil-Ladpura

Name of the forest Division- DCF kota

Range Mandana . Forest block- Badkala ji

**Description of Area**

I) Whether the site selected for Compensatory Afforestation is a land bank or not : Not

II) If the CA site is other than the land bank, reasons be given : As per Minutes of meeting Dated 18/07/2017 CA on non forest land is not required for development projects for Central Government.

III) Soil type : gravel & boulders.

IV) Topography :

(A )Hilly/Undulating/Plain-Plain

(B) Slope: Steep/Medium/Gentle: Gentle

V) Whether the area is bearing any root stock of vegetation :- Yes

**2. Plantation Model:-**

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up will be uploaded later.

**3. Schedule of Plantation Programme :-** Detail of year wise break up of requirements of funds is as under:- Estimate attached

4. Technical details:- Technical details of Compensatory Afforestation Scheme are as follows:-

- a) General Details : Land degraded due to grazing pressure of the cattles in the area.
- b) Spacing : 3 meter X 3 meter)
- c) Species :- Khair, Churel, Ber, Amla, Amaltas, etc.
- d) Plantation Method : Using the ANR Model ( Plantation of DFL)
- e) Soil and Moisture Conservation Works :- LSCD, Gabians, staggered Contour Trenches and Continidurs Contour tenches, Pakka check dam and W.H.S..
- f) Protection (Fencing, Watch man, People's Participation etc.):- The area will be fenced and protected through EDC. A watch man will be deployed for protection.
- g) Proposed Monitoring Mechanism :- Annual survival percentage and eualuation in month of June will be done every year. Complete, remedial measures will be taken in the coming monsoon season.
- h) Any other information:- Nil

**Model Cost estimate for compensatory afforestation  
ON DEGRADED FOREST LAND**

Unit in ha - 1.926  
PERIMETER -  
LABOUR RATE - 252/DAY  
COST- ESTIMATE : IN Rs/Ha

**YEAR 0-ADVANCE ACTION**

sl no	Item of works	unit	Rate/U nit(RS)	Quantity	Labour cost	Material cost	Total
1	Survey of area layout & alignemnt for fencing ,marking of segments	Ha	84.03	1.926	162	0	162
2	Preparation of plantation record plantaion cards,estimates,journals etc.	Ha	227.8	1.926	439	0	439
3	Fencing-by stone wall size (0.80+0.60/2)x1.20	cum	383.17	340.2	130354	0	130354
4	cost of raising 1483 seedling	plant	3.93	1483	5828		5828
5	Digging up 578 rmt staggered contour trenches 45x45cm cross section on middle slopes and Vditch as per site	RMT	25.82	578	14924		14924
6	Digging of 578 pits of size 0.45x(0.4+0.5/2)2 cum hard soil upto 10% boulders	pit	14.87	578	8595		8595
7	cost of collection and purchase of grass and other seeds of tree and shrubs	prorata					377
8	In situ soil & moisture conservation measures like cheak dams/ earthan/ brushwood	prorata					1415
9	Construction of cattle Guard hut	prorata					412
10	Purchase or construction of water storage Tank	prorata					244
11	Labour amenities	prorata					342
12	Watch & ward for 4 month	prorata					2792
13	Purchase of tools& plants.	prorata					212
14	Construction of 50 mtr long countour dykes of 30x30 cm cross section on upper slopes and sowing of suitable thny shrub	cum	252	14.445	3640		3640
15	Construction of the pillars of appropriate size for gate	prorata					343



16	purchase of sing Board & Fixing of sing Board	prorata					239
17	Miscellaneous and unforeseen expenditure	prorata					747
	<b>Total 0-ADVANCE ACTION</b>						<b>171065</b>
21	administrative charges 10%						17106
	<b>Total</b>						<b>188171</b>

#### YEAR 1-PLANTING YEAR

sl no	item of works	unit	Rate/Unit(RS)	Quantity	Labour cost	Material cost	Total
1	maintenance of 1483 seedling in nursery	plant	2.11	1483	3129		3129
2	Digging of 770 pits of size 0.45x(0.4+0.5/2)2 cum hard soil upto 10% boulders	pits	14.87	770	11450		11450
3	In situ soil & moisture conservation measures like cheak dams/ earthan/ brushwood	prorata					5984
4	digging of 30x30 cm cross section trench along inner side of stone wall fencing and seed sowing	cum	230.96	36.45	8418		8418
5	sowing/dibbling of seeds of grass/thrny trees species on the mounds of countour trench and ditch fencing	rmt	0.62	983	609		609
6	Purchase of fertilizers / pesticides/organicmanure	plant	0.53	1348	714		714
7	sowing of pellats of grass/piece of seed mud cakes of gress seeds between row of pits by ploughing and furrowing	prorata					1098
8	transportation of 1348 plants from nursery to planting site 15 km	plant	2.47	1348	3330		3330
9	planting of 1348 seedling including refilling of pits	plant	5.53	1348	7454		7454
10	watering & application of insection in 1348 plants at the time of planting	plant	3.16	1348	4260		4260
11	Restoration of natural regenration by making crescent shapad mounts on the lower slopes of seedling and sapling and making ring tranches around the natural trees/shrubs (150 plant/ha)	plant	6.93	290	2010		2010

12	making of crescent shaped mounds below planted sapling after planting and dibbling of 3 seeds of thorny tree species modal according	plant	3.58	1348	4826		4826
13	Weeding and hoeing of plants with repairing plant mounds -2 times	plant	4.03	2696	10865		10865
14	Weeding on contour trenches and V ditch and spacing/singling	rmt	2.38	578	1376		1376
15	raising of 135 seedling in nursery for casualty replacement in year-2 (10% of 1348 )	seedling	3.94	135	532		532
16	Watch & ward for 12 month	months	6552	12	78624		78624
17	Lauber Amenitiess and hut repair	prorata					797
18	construction of approach road / inspection path	prorata					824
19	construction of sing Board & Fixing of sing Board	prorata					1254
20	Miscellaneous and unforeseen expenditure including additional watering	prorata					397
	<b>Total Year 1</b>						147951
21	administrative charges 10%						14795
	<b>Total</b>						<b>162746</b>

#### YEAR 2-MAINTENANCE YEAR

sl no	item of works	unit	Rate/Unit(RS)	Quantity	Labour cost	Material cost	Total
1	maintenance of 135 seedling in nursery for casualty replacement in year-2	plants	2.11	135	285		285
2	Repair of fencing	prorata					485
3	casualty replacement 135 plants including redigging of pits transportation planting watering and application of insecticides	plants	11.55	135	1559		1559
4	Weeding and hoeing in 1348 plants in pits -2 times	plant	4.03	2696	10865		10865
5	Watch & ward for 12 month	months	6552	12	78624		78624
6	Miscellaneous and unforeseen expenditure including additional watering	prorata					1188

	<b>Total Year 2</b>						93006
7	Administrative charges 10%						9300
	<b>Total</b>						102306

**SUBSEQUENT MAINTENANCE YEAR 3 TO 12**

sl no	item of works	unit	Rate/U nit(RS)	Quantity	Labour cost	Material cost	Total
1	Watch & ward for 12 month	months	6552	12	78624		78624
2	Miscellaneous and unforeseen expendituer including additional watering	prorata					2051
3	<b>Total Year 3</b>						80675
4	Administrative charges 10%						8067
5	<b>Total</b>						88742

  
**डा. मन सिंह**  
**जोषी**

## Model Cost Norms- Mitigative Measures

1	ADVANCE ACTION	YEAR 0	188171
2	PLANTATION YEAR	YEAR 1	162746
3	MAINTENANCE YEAR	YEAR 2	102306
4	MAINTENANCE YEAR	YEAR 3	88742
5	MAINTENANCE YEAR	YEAR- 4	88742
6	MAINTENANCE YEAR	YEAR- 5	88742
7	MAINTENANCE YEAR	YEAR- 6	88742
8	MAINTENANCE YEAR	YEAR- 7	88742
9	MAINTENANCE YEAR	YEAR- 8	88742
10	MAINTENANCE YEAR	YEAR- 9	88742
11	MAINTENANCE YEAR	YEAR- 10	88742
12	MAINTENANCE YEAR	YEAR- 11	88742
13	MAINTENANCE YEAR	YEAR- 12	88742
		TOTAL	1340643
		SAY	1340700

  
**जय राम सिंह**  
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