

## CHECKLIST-15

### ANNEXURE-O

#### Scheme of Compensatory Afforestation

Detailed Scheme of Compensatory Afforestation to be carried out on an area of 16.1453 ha. of Forest land to be Widening and Strengthening from km 79.200 to 100.00 ( from Kheroj to Ambaji Road ) Section of Himmatnagar-idar-vadali-khedbaamha-ambaji road (section of SH-9) in Gujarat.

[1] Details of degraded forest land / non forest land.

District Arvalli Village -Vantda Taluka Modasa

Name of Forest Division Arvalli Modasa Range Modasa

Block / Compartment / Survey 151 PT

Area to be afforested 33.00 Hector

[ 2 ] Description of Area

Soil type Black cotton Soil with muram

Topography : Hilly / Plain Plain

Slop : Steep / Medium / Gentle Medium & Gentle

Whether the area is bearing any root stock of Vegetation : 5 % Root Stock

[ 3 ]

Name of Plantation Programme Model - 2 833+25 Plants per ha.

[ 4 ] Schedule of Plantation Programme :

The Compensatory Afforestation on non- Forest degraded forest land would be started by Dy. Conservator of Forest Sabarkantha division south as early as possible after the proposal is formally approved.

Details of Year wise break up of requirement of fund is as under : Daily wage Rs. 297.60

Year	Area (Ha)	Rate per Ha	Total Amount
O Year	33	113552	3747216
1 st Year	33	57965	1912845
2 nd Year	33	24536	809688
3 rd Year	33	19370	639210
4 th Year	33	12575	414975
5 th Year	33	5823	192159
6 th Year	33	5823	192159
7 th Year	33	5823	192159
8 th Year	33	5823	192159
9 th Year	33	5823	192159
10 th Year	33	5823	192159
Total	262936	262936	8676888
Supervision Charge 20 %		52587.2	1735377.6
G. Total		315523.2	10412265.6
G. Total		315523.00	10412266.00



The User Agency has given undertaking to pay the cost of Compensatory Afforestation as per the prevailing Wages . (Including the price escalation and supervision charges)

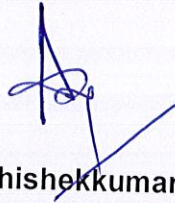
**[ 5 ] Technical Details :**

Technical details of Compensatory Afforestation area as follows.

- |       |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [ a ] | General Details                                    | Pits $0.45 \times 0.45 \times 0.45$ Cmt : Protection wall & trench<br>Contour trench , Gully Plugging, Nala bunding etc SMC work.                                                                                                                                                                                                                                                                |
| [ b ] | Spacement                                          | $4 \times 3$ mt Alignment & Staking                                                                                                                                                                                                                                                                                                                                                              |
| [ c ] | Species                                            | Small timber , Fuelwood & MFP species such ad Acacia tortillis , Acaciniotica, Zizypus , Albiziz lebbeca<br>Dendrocalmus strictus etc.                                                                                                                                                                                                                                                           |
| [ d ] | Nursery Technique                                  | 60 cms Tall Plants raised is poly pots of size $15 \text{ cm} \times 25 \text{ cm} \times 200 \text{ g}$ . To be planted in the 30 cms 3 pits on omet of the monsoon.                                                                                                                                                                                                                            |
| [ e ] | Site Preparation                                   | Existing malformed tree growth and illicitey cut stools will be cut back in the month of February / March . Pits of $0.45 \text{ cms} \times 0.45 \text{ cms} \times 0.45 \text{ cms}$ will be dug. As per the site gully plugging Nala Bunding contour trenches. Construction of Van talavdi. Small Check dams to be done for Soil Conservation and Water Harresting measures.                  |
| [ F ] | Plantation Method ( Size of pit , Ploughing etc. ) | BHC 50 % Powder of Aldrin 30 EC is into be used for antitermite treatment and NPK fertilized @ 10 gram pits is applied as abase before planting . 9 months old seedings raised in $15 \text{ cm} \times 25 \text{ cm} \times 200 \text{ g}$ . of polypot will be planted with the on set of rains.                                                                                               |
| [ g ] | SMC Work                                           | Gully Plugging - Nala bunding ( 20-30 cmt ) Van Talavdi , Check Dams -1 Contour trench -500 RMT. Etc.                                                                                                                                                                                                                                                                                            |
| [ h ] | Protection                                         | Peripherel trench $120 \text{ cm} \times 100 \text{ cm} \times 60 \text{ cm}$ or a stone wall of $100 \text{ cm} \times 100 \text{ cm} \times 60 \text{ cm}$ top will be created around the plantation and three rows of prosopis and puwad seeds along with bulbbil. or jatropa or ipomea cuttings will be planted on the dug up soil for convenience of work. Pot size would be 25 ha or over. |



- [ i ] Silvicultural Operations : Fence repair. Cleaning pruning and unkeep of planted and naturally regenerated saplings will be done through castral naturally regenerated will be done through casual labour till the end of 4 th Year.
- [ j ] Maintenance Repair & Maintenance of fence & Protection.
- [ k ] Subsequent silvicultural Operatins proposed such as cleaning . cutbacks, thininings etc ( As per specific requirement )  
 Khakharo 250  
 Dudhikado 250
- [ l ] Arrangement for peoples participations ( if any ) for long term sustenance of the plantation  
 Nil
- [ m ] Proposed monitoring mechanism Monitoring done by Block wise area.

  
 (Dr. Abhishekkumar)  
 Dy. Conservator Forest  
 Aravalli Forest Division  
 Modasa



Modal No -2

Annexure -3 9 (1)

Compensatory Afforestation Scheme for double degradation areas & NPV Plantations

Daily Wages Rs. -297.60

Spacings = 4m\*3m

833+25=858 Seedling / Ha

1 St year replacement 10%= 86 seedling / ha

2 St year replacement 20%= 86+86 seedling / ha

3 St year replacement 10%= 86 seedling / ha

Total Seedlings= 1202 seedling / ha

Polypot size - 20 cm\*30 cm \* 250 g for 25 Deshi Mango Seedlings AND for OTHER SEEDLINGS 15 CM\*25 CM\*200

Item of work	Qty	Labour	Material	Total
1	2	3	4	5
<b>0 Year</b>				
Nursery				
(a) cost of soil, manure, seeds, water, fertilizer, insecticides, implements, rent of lands, shade, etc. (including 10% for casualty replacement)	944	0	872	872
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering, shifting, weeding etc.	944	4178.00	122	4300
(c) seedling cost for casualty replacement in one year old (20%)	172	1326	201	1527
(d) seedling cost for casualty replacement in two year old (10%)	86	664	100	764
<b>Total</b>		<b>6168.00</b>	<b>1295</b>	<b>7463.00</b>
<b>2. Area Development Land Preparation</b>				0
(a) Survey, cutback and promotion of root suckers		5134	26	5160
(b) Alignment and digging of pits 0.45 * 0.45 * 0.45	833@6.00	8796	0	8796
(c) Alignment and digging of pits 1 m * 1 m * 1 m	25@63.00	3850	0	3850
<b>Total</b>		<b>17780</b>	<b>26</b>	<b>17806</b>
(a) Natural Fertilizer (Neem cake/ Castor Cake)	858@5.00	0	3575	3575
<b>Total</b>		<b>0</b>	<b>3575</b>	<b>3575</b>
<b>3. SMS Works</b>				0
(a) Check wall/ retaining wall? checkdam (all pucca only)	L.S	16589	16830	33419
(b) Contour trench 2 M * 45 Cm * 30 Cm as per Rs. 17.00/mt (300 trench)	600mt	22301	0	22301
<b>Total</b>		<b>38890.00</b>	<b>16830</b>	<b>55720</b>
<b>4. Protection</b>				0
(a) Banded wire fencing	L.S	4308	22000	26308
(b) Seed sowing and Planting of Cutting of Lpomea/Glaricidia along the fence		2460	220	2680
<b>Total</b>		<b>6768</b>	<b>22220</b>	<b>28988</b>
<b>Sub Total of 0 year</b>		<b>69606.00</b>	<b>43946.00</b>	<b>113552.00</b>
<b>1st year</b>				0
(a) Maintenance of nursery ( April to June)	715	18128	103	18231
(b) Transport of seedling for plantation	650	1352	129	1481
(c) Planting with khamna of Min 1 m dia	650	3379	0	3379
(d) Transport of seedling for casualty replacement	65	199	14	213



(e) 3 weeding cum soil working	650	13172	0	13172
(f) Support watering 5 times @ 3.25		7817	7189	15006
(g) Protection / tending operation		4658	0	4658
(h) Tending to natural vegetation		1165	0	1165
(i) Contingency			660	660
Total for 1st year		<b>49870.00</b>	<b>8095.00</b>	<b>57965.00</b>
Item of work				0
2nd year				0
(a) 2 weeding & soil working		6752	0	6752
(b) 20 % Casually replacement , transport and planting	65+65	213	317	530
(c) Natural Fertiizer (neem cake/ caster cake) etc.	RS.5/Plant		3575	3575
(d) Support watering 3 times @ 3.25		4955	4132	9087
(e) Protection / tending opration	L.S	4592	0	4592
Total for 2nd year		<b>16512.00</b>	<b>8024.00</b>	<b>24536.00</b>
3rd year				0
(a) 2 weeding & soil working		6752	0	6752
(b)10 % Casually replacement, transept and planting	65+65	107	160	267
(c) Natural Fertiizer neem cake etc.	RS.5/Plant		3575	3575
(d) Support watering 1 times @ 3.25		1666	1370	3036
(e) Protection & Maintenance of fencing/ tending opration	L.S	5740	0	5740
Total for 3rd year		<b>14265.00</b>	<b>5105.00</b>	<b>19370.00</b>
4th year				0
(a) 1 weeding & soil working		6752	0	6752
(b) Protection & Mintenance of fencing/ Tending Operation	L.S	5823	0	5823
Total for 4nd year		<b>12575.00</b>	<b>0.00</b>	<b>12575.00</b>
5th year				0
Protection & Mintenance of fencing/ Tending Operation	L.S		0	0
Total for 5nd year		<b>5823.00</b>	<b>0.00</b>	<b>5823.00</b>
Protection & Mintenance of fencing/ Tending Operation				0
Total for 6nd year	L.S	<b>5823.00</b>	<b>0.00</b>	<b>5823.00</b>
Protection & Mintenance of fencing/ Tending Operation			0	0
Total for 7nd year		<b>5823.00</b>	<b>0.00</b>	<b>5823.00</b>
8th year	L.S		0	0
Protection & Mintenance of fencing/ Tending Operation			0	0
Total for 8nd year		<b>5823.00</b>	<b>0.00</b>	<b>5823.00</b>
Protection & Mintenance of fencing/ Tending Operation	L.S		0	0
Total for 9nd year		<b>5823.00</b>	<b>0.00</b>	<b>5823.00</b>
10th year				0
Protection & Mintenance of fencing/ Tending Operation	L.S		0	0
Total for 10nd year		<b>5823.00</b>	<b>0.00</b>	<b>5823.00</b>
G. Total		<b>197766.00</b>	<b>65170.00</b>	<b>262936.00</b>
Note :-				
(1) Seed sowing along fencing towards the inner side, and also in the plot.				
(2) Planting of cutting of Ipomea/Glaricidia along the fencing towards outer				
(3) Planting of 25 seedling of deshi mango in a pit size of 1m * 1m * 1m				

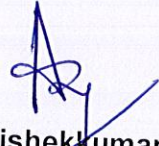


## CERTIFICATE

This is to Certify that the compensatory afforestation scheme attached herewith for 33.00 ha in **Vontda Village Ta. Modasa Survey No 151 in lieu 16.1453 ha.** Diversion of Forest land proposal for **Widening and Strengthening from km 79.200 to 100.00 ( form Kheroj to Ambaji Road ) Section of Himmatnagar-idar-vadali-khedbaamha-ambaji road (section of SH-9) in Gujarat Dist : Aravalli** in Gujarat with the guidelines issued vide additional Principal Chief Conservator of Forests, Land Gujarat State Gandhinagar letter No. **Land/31/b/147-216/2016-17**, Dated. **06/04/2016** and same is here by approved technically.

Place : Modasa.

Dated : 22/09/2017

  
(Dr. Abhishekkumar)  
Dy. Conservator Forest  
Aravalli Forest Division  
Modasa



Widening and Strenthening from km 79.200 to 100.00 ( form Kheroj to Ambaji Road )  
 Section of Himmatnagar-idar-vadali-khedbaamha-ambaji road (section of SH-9) in Gujarat. .

Sr.No	Name of Village	Taluka	District	Survey No.	Total area of Survey No for C.A in Ha.	Area carried out of C.A in Ha.	C.A area to be carried in this proposal Ha.	Balance area for C.A in Ha.
1	2	3	4	5	6	7	8	9
1	Vantda	Modasa	Aravalli	151	136.89	0	33	103.89

(Dr. Abhishekkumar)  
 Dy. Conservator Forest  
 Aravalli Forest Division  
 Modasa