

Scheme of Compensatory Afforestation

Detailed of Degraded scheme Compensatory Afforestation to be carried out in lieu of 41.3016 Ha. of Forest land to Permission for 2/4 laning Dhanera-Zerda section from km 0+000 to km 11+000 of Dhanera by pass and from km 42+300 to 55+030 of NH 168 A in the state Gujarat package IV area 20.6508 ha. of Forest Land for the purpose of Nationla Highway Road.

(1) Details of Degraded forest land. : - Village: Aval

District: Banaskantha. Taluka: Amirgadh

Name of Forest Division: Banaskantha. Range: Amirgadh

Block/Compartment./Survey No.: 295/pt

Area to be Afforested : 41.3016 ha.

(2) Description of Area:

Soil type: Murram

Topography: gentle

Hilly/Plain/Slope-Steep/medium/gentle.

Whether the area is bearing any root stock or Vegetation : 10 % Root Stock

(3) Name of Plantation Programme: Model No.2 833+25=858 Pits/ha.

(4) Schedule of Plantation programme:

The Compensatory Afforestation on Degraded forest land would be started by Dy.Conservator of Forest Banaskantha Division Palanpur as early as possible after the proposal is formally approved.

Details of Yearwise break-up of requirement of fund is as under:

(Daily wage: Rs.297.60)

Year	Area	Rate per Ha.	Total Amount.
0 Year	41.3016	110003	4543300
1 Year	41.3016	38064	1572104
2nd Year	41.3016	24588	1015524
3rd Year	41.3016	18684	771679
4th Year	41.3016	7370	304393
5th year	41.3016	4665	192672
6th year	41.3016	4665	192672
7th year	41.3016	4665	192672
8th year	41.3016	4665	192672
9th year	41.3016	4665	192672
10th year	41.3016	4665	192672
Total		226699	9363031
Supervision Charge 20 %		45340	1872606
Grand Total		272039	11235638

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 are as follows :

- | | |
|---|---|
| (a) General Details: | Size of Pit: 45x45x45 cmt (833+25 Pits/ha.) Protection wall & trench contour trench, Gully Plugging, Nala bunding etc SMC work. |
| (b) Spacement | 4 x 3 mt Alignment & Staking. |
| (c) Species | Small timber, Fuelwood & MFP Species such as Acacia tortilis, Acacia nilotica, Zizyphus, Albizia lebbeca Dendrocalmus strictus etc. |
| (d) Nursery Technique | 60 cms Tall Plants raised in poly pots of size 15 cm x 25 cm x 200 g. To be Planted in the 30 cms 3 pits on onset of the monsoon. |
| (e) Site Preparation. | Existing malformed tree growth and illicit cut stools will be cut back in the month of February / March. Pits of 0.45 cms x 0.45 cms x 0.45 cms will be dug. As per the site gully plugging Nala Bunding contour trenches. Construction of Van talavadi. Small Check dams to be done for Soil Conservation and Water Harvesting measures. |
| (f) Plantation Method (Size of Pit, Ploughing etc.) | BHC 50% Powder of Aldrin 30 EC is to be used for ant termite treatment and NPK fertilized @ 10 gram pits is applied as a base before planting. 9 months old seedlings raised in 15 cm x 25 cm x 200 g. of poly pot will be Planted with onset of rains. |
| (g) SMC Work | Gully plugging- Nala bunding (20-30 cmt) van talavadi, Check Dams-1 Contour trench -500 RMT Etc. |
| (h) Protection. | Peripheral trench 120 cm x 60 cm top will be created around the plantation and three rows of Prosopis and Pongamia seeds along with bulbul or jatropha 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 upkeep of planted and naturally regenerated saplings will be done through casual labour till the end of 4th year |
| (j) Maintenance | Repair & Maintenance of fence & Protection |

(k) Subsequent silvicultural
Operations Proposed such as
Cleaning, cutbacks, thinning
etc

As per specific requirement

(l) Proposed, Monitoring,
Mechanism

Monitoring done by Block wise Area.

Note: This project has been prepared keeping the current daily wage rate into consideration. The maintenance of plantation upto 10th year is subject to budget provision as per prevailing wage rate from time to time



(I. K. Barad)

Dy. Conservator of Forests
Banaskantha-Palanpur

Model No - 2

Annexure-3 (1)

Compensatory Afforestation Scheme for double degradation areas & NPV Plantations

Daily wages Rs.297.60

Spacings = 4 m x 3 m				
833+25=858 seedling / Ha				
1st year replacement 10 % = 86 seedling /ha				
2nd year replacement 20 % = 86+86 seedling /ha				
3rd year replacement 10 % = 86 seedling /ha				
Total Seedlings = 1202 seedling /ha				
Polypot size : 20 cm x 30 cm x 250 g for 25 Deshi Mango seedlings and for other seedlings 15 cm X 25 cm X 200				
Item of work	Qty.	Labour	Material	Total
1	2	3	4	5
0 year				
Nursery				
(a) Cost of soil, manure, seeds, water, fertilizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	944	0	1233	1233
(b) labour : Preparation of beds, filling and arranging of bags, sowing of seeds, watering, shifting, weeding etc.	944	3016	173	3189
(c) Seedling cost for casualty replacement in one year old (20%)	172	956	285	1241
(d) Seedling cost for casualty replacement in two year old (10%)	86	479	142	621
Total		4451	1833	6284
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		2932	37	2969
(b) Alignment and digging of pits 0.45 X 0.45 X 0.45	833 @ 6.00	6348	0	6348
(c) Alignment and digging of pits 1 m X 1 m X 1 m	25 @ 63.00	2449	0	2449
Total		11729	37	11766
(a) Natural fertilizer (Neem cake/ Castor cake)	858 @ 5.00	0	5053	5053
Total		0	5053	5053
3. SMC Works				
(a) Check wall/ retaining wall /checkdam (all pucca only)	L.S.	11972	23789	35761
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	15999	0	15999
Total		27971	23789	51760
4. Protection				
(a) Barbed wire fencing	L.S.	3110	31097	34207
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		622	311	933
Total		3732	31408	35140
Sub Total of 0 year		47883	62120	110003
1st Year				
(a) Maintenance of nursery (April to June)	715	1459	146	1605
(b) Transport of seedling for plantation	650	881	182	1063
(c) Planting with khamna of Min 1 m dia	650	2707	0	2707
(d) Transport of seedling for casualty replacement	65	94	21	115
(e) 3 weeding cum soil working	650	10552	0	10552
(f) Support watering 5 times @ 3.25		6263	10161	16424
(g) Protection / tending operation		3732	0	3732
(h) Tending to natural vegetation		933	0	933
(i) Contingency		0	933	933
Total for 1st year		26621	11443	38064

Item of work	Qty.	Labour	Material	Total
2nd Year				
(a) 2 weeding & soil working		5409	0	5409
(b) 20 % Casually replcement, transport and planting	65+65	93	448	541
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	5053	5053
(d) Support watering 3 times @ 3.25		4013	5840	9853
(e) Protection / tending operation		3732	0	3732
Total for 2nd year		13247	11341	24588
3rd Year				
(a) 2 weeding & soil working		5409	0	5409
(b) 10 % Casually replcement, transport and planting	65	47	224	271
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	5053	5053
(d) Support watering 1 times @ 3.25		1350	1936	3286
(e) Protection & maintenance of fencing / tending operation	L.S.	4665	0	4665
Total for 3rd year		11471	7213	18684
4thYear				
(a) 1 weeding & soil working		2705	0	2705
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	4665	0	4665
Total for 4th year		7370	0	7370
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4665	0	4665
Total for 5th year		4665	0	4665
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4665	0	4665
Total for 6th year		4665	0	4665
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4665	0	4665
Total for 7th year		4665	0	4665
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4665	0	4665
Total for 8th year		4665	0	4665
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4665	0	4665
Total for 9th year		4665	0	4665
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4665	0	4665
Total for 10th year		4665	0	4665
G.Total		134582	92117	226699

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 side.
- (3) Planting of 25 seedling of Deshi Mango in a pit size of 1 m x 1 m x 1 m along the boundary of the plot.



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Banaskantha-Palanpur

CERTIFICATE

This is to certify that the compensatory afforestation scheme attached herewith for 41.3016 ha in Aval Village, Ta. Amirgadh, Survey No. 295pt. in lieu 20.6508 ha. Diversion of Forest land proposal for 2/4 laning Dhanera-Zerda section from km 0+000 to km 11+000 of Dhanera by pass and from km 42+300 to 55+030 of NH 168 A in the state Gujarat package IV area 20.6508 ha. in the state of 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.

Palanpur

Date: 10/5 /2018



(I. K. Barad)

Dy.Conservator of Forests,
Banaskantha-Palanpur