

Annexure-19**MODEL No- 3 Annexure- 4 (1)****Compensatory Afforestation Scheme for double degraded Forest area**

Diversion of 0.077 ha Forest land for the laying of 180 mm dia PVC U.G Drinking water pipeline from Makanpar HW to existing line near Palara Village in favour of Gujarat Water Supply & Sewerage Board, P.H.S. Sub Dn.1 Bhuj of Kutch district of the State of Gujarat. (Proposal No. FP/GJ/WATER/154238/2022)

Detailed scheme of Compensatory Afforestation for double degraded forest area 1.00 ha. to be carried out in lieu of 0.077 ha. of Reserved Forest (Sec.- 20) land to be diverted in Kutch district.

1. Details :-

Village	Bhuj
Taluka	Bhuj
Range	Bhuj - West
District	Kutch
Division	Kutch - West
Block/ Patal, Compartment No.	Survey No. 870 / Pt.
Area to be afforested	1.00 ha.
Working circle	Plantation

2. Description of Area :-

Soil type	Murmy & hard soil
Topography	Plane
Slope	Medium & Gentle
Whether the area is bearing any root stock of Vegetation	Yes

3. Name of Plantation Programme :-

Compensatory Afforestation Scheme for double degraded Forest area.

4. Schedule of Plantation Programme :-

(i)	The Compensatory Afforestation on degraded Forest area would be started by Dy. Conservator of Forest, Kutch West Division, Bhuj as early as possible after the proposal is formally approved.
(ii)	Compensatory Afforestation will be done in 1.00 ha. area. The total afforestation cost will be about Rs. 5,31,019/- Deputy Executive Engineer P.H.S. Sub Division No.1, GWSSB - Bhuj, Kachchh has given an 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:-

Sr. No.	Details	Specifications															
a	General Details	The Compensatory Afforestation taken for equal land on non Forest area. The prevailing daily wage rate is Rs.351.30 per/day.															
b	Spacement	3 X 3 mtr., 1111 plants per/ha.															
c	Species to be planted (No. of plants per / ha.)	<table border="1"> <tr> <td>Desi Baval</td><td>300</td><td rowspan="7">Minimum planting height will be 60 cm. at the time of planting. However it will vary for different species.</td></tr> <tr> <td>Boradi</td><td>200</td></tr> <tr> <td>Gorad</td><td>153</td></tr> <tr> <td>Goras Ambali</td><td>153</td></tr> <tr> <td>Liyar</td><td>153</td></tr> <tr> <td>Limda</td><td>152</td></tr> <tr> <td>Total</td><td>1111</td></tr> </table>	Desi Baval	300	Minimum planting height will be 60 cm. at the time of planting. However it will vary for different species.	Boradi	200	Gorad	153	Goras Ambali	153	Liyar	153	Limda	152	Total	1111
Desi Baval	300	Minimum planting height will be 60 cm. at the time of planting. However it will vary for different species.															
Boradi	200																
Gorad	153																
Goras Ambali	153																
Liyar	153																
Limda	152																
Total	1111																
d	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.															
e	Site Preparation	Site cleaning of area and malformed rootstock present in the area will be cutback & the site will be cleaned in the month of Nov-Dec. Alignment & pit digging 45 x 45 x 45 cms. will be carried out in the month of Dec - Jan.															
f	Plantation Method	Polypot raised plants will be planted during monsoon.															
g	Soil & Moisture Conservation Works	<p>(i) SMC structure like Chek dam, Chek wall, retaining wall, Van talav, Earthen bund, and Loose boulder.</p> <p>(ii) Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha. as per site specific condition will be carried out of Gully plugging & Nala Banding using The loose stone available in the area will be carried out as per requirement. Seeds of Pillu, Desi baval ...etc. will be planted during monsoon in the upper side of nala as per suitability.</p>															
h	Protection Trench	Protection trench, Barbed wire fencing Seed showing and planting of cuttings of Desi baval/ Pulu or any local species.															
i	Silvicultural Operations	<p>1st year three weeding soil working, Support watering will be provided if needed.</p> <p>2nd year two weeding soil working.</p> <p>3rd year one weeding soil working.</p>															
j	Maintenance	It is proposed to maintain the Plantation up to ten years.															
k	Subsequent silvicultural Operation	Cleaning, cutbacks, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.															

1	Proposed monitoring mechanism	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms.</p> <p>Forester – 100%</p> <p>RFO – 100%</p> <p>ACF – 20%</p> <p>DCF – 10%</p> <p>(iii) The results of survival etc. are maintained in the plantation register on a periodical basis, which is updated at the end of November and March each year.</p> <p>(iv) The collar girth is also to be reordered at the end of each year.</p> <p>(v) Third party monitoring mechanism is also in the State and if the plantation is in the sample selected, it will also be monitored by the third party selected for this purpose.</p>
m	Regeneration cleaning	Soil working around natural regeneration.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.



(Y.S. Jhala)

Dy. Conservator of Forests
Kutch West Division, Bhuj

The Compensatory Afforestation scheme at the cost of Rs. 5,31,019/- is technically and administrative approved by the undersigned.

Date: 19/09/2022

Place: Bhuj-Kutch



(Y.S. Jhala)

Dy. Conservator of Forests
Kutch West Division, Bhuj

As per APCCF, Land, Gandhinagar letter dated: 18/11/2019 & 27/11/2019

Diversion of 0.077 ha Forest land for the laying of 180 mm dia PVC U.G Drinking water pipeline from Makanpar HW to existing line near Palara Village in favour of Gujarat Water Supply & Sewerage Board, P.H.S. Sub Dn.1 Bhuj of Kutch district of the State of Gujarat.
(Proposal No. FP/GJ/WATER/154238/2022)

Increased 10% rate/ year with 20 % add Supervision charge of Rate Structure for Compensatory Afforestation scheme for the Year 2020-21

Daily Wages : Rs. 351.30/-

Sr. No.	MODEL No.		Rate/ha	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	Total	20% Add	Grand Total
1	2	3	4	5	6	7	8	9	10	11	12	12	14	15	16	17	18
1	MODEL No-3 Annexure-4(1)	A	Normal Rate	154789.94	72436.81	46494.92	33793.78	10962.96	5506.62	5506.62	5506.62	5506.62	5506.62	5506.62	351518.13	70303.63	421821.76
2		B	Increased 10% rate/ year	170268.93	86924.17	60443.40	47311.29	16444.44	8810.59	9361.25	9911.92	10462.58	11013.24	11563.90	442515.72	88503.14	531018.86

Date :- 19/09/2022

Place:- Bhuj - Kutch

As per APCCF, Land, Circulars letter dated: 18/11/2019 & 23/11/2019

(Y.S. Jhala)

Dy. Conservator of Forests
Kutch West Division, Bhuj

MODEL No-3, Annexure- 4 (1) Compensatory Afforestation Scheme for double degraded Forest areas acquired under FCA Proposal				
Diversion of 0.077 ha Forest land for the laying of 180 mm dia PVC U.G Drinking water pipeline from Makanpar HW to existing line near Palara Village in favour of Gujarat Water Supply & Sewerage Board, P.H.S. Sub Dn.1 Bhuj of Kutch district of the State of Gujarat. (Proposal No. FP/GJ/WATER/154238/2022)				
Daily wages : Rs. 351.30/-				
Spacements = 3 m. x 3 m. 1111 seedling / ha. 1st year replacement 10 % = 111 seedling /ha 2nd year replacement 20 % = 111+111 seedling /ha 3rd year replacement 10 % = 111 seedling /ha Total Seedlings = 1333 seedling /ha Polypot size : 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, polythene bag fertilizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	1222	0.00	1883.14	1883.14
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4606.90	238.60	4845.50
(c) Seedling cost for casualty replacement in one year old (20%)	222	1455.50	434.99	1890.49
(d) Seedling cost for casualty replacement in two year old (10%)	111	728.67	216.57	945.24
Total		6791.07	2773.30	9564.37
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers, site preparation.		3461.61	0.00	3461.61
(b) Alignment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 11.90	13220.90	0.00	13220.90
Total		16682.51	0.00	16682.51
(a) Natural fertilizer (Neem cake/ Castor cake)/ Bio fertilizar	1111	0.00	10195.78	10195.78
Total		0.00	10195.78	10195.78
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only) van talav, earthen bund, loose boulder chekdan	L.S.	12297.33	24411.13	36708.46
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.29.25/rmt (300 trench) (according to the site condition)	600 rmt.	17550.00	0.00	17550.00
Total		29847.33	24411.13	54258.46
4. Protection				
(a) Barbed wire fencing	156.14 rmt @ 400/-Rs.per mtr	21860.00	40597.13	62457.13
(b) Seed sowing desi baval, khijado, etc.. or any local species along the fence		1141.63	490.06	1631.69
Total		23001.63	41087.19	64088.82
Total of 0 year		76322.54	78467.40	154789.94
1st Year				
(a) Maintenance of nursery (April to June)	1222	3239.52	323.04	3562.56
(b) Transport of seedling for plantation	1111	1776.69	367.08	2143.77
(c) Planting with khamna of Min 1 m dia	1111	5462.23	0.00	5462.23
(d) Transport of seedling for casualty replacement	111	189.05	42.21	231.26
(e) 3 weeding cum soil working	1111	21290.91	0.00	21290.91
(f) Support watering 5 times @ 3.25		13609.67	19528.90	33138.57
(g) Protection / tending operation		4405.01	0.00	4405.01
(h) Tending to natural vegetation		1101.25	0.00	1101.25
(i) Contingency		0.00	1101.25	1101.25
Total for 1st year		51074.33	21362.48	72436.81

2nd Year				
(a) 2 weeding & soil working		10915.26	0.00	10915.26
(b) 20 % Casually replacement, transport and planting	111+111	183.54	914.04	1097.58
(c) Natural fertilizer (neem cake / caster cake) etc./ Bio fertilizer	Rs.5/ plant	0.00	10195.78	10195.78
(d) Support watering 3 times @ 3.25		8163.96	11717.33	19881.29
(e) Protection / tending operation		4405.01	0.00	4405.01
Total for 2nd year		23667.77	22827.15	46494.92
3rd Year				
(a) 2 weeding & soil working		10915.26	0.00	10915.26
(b) 10 % Casually replacement, transport and planting	111	91.77	457.01	548.78
(c) Natural fertilizer (neem cake / caster cake) etc./ Bio fertilizer	Rs.5/ plant	0.00	10195.78	10195.78
(d) Support watering 1 times @ 3.25		2721.93	3905.77	6627.70
(e) Protection & maintenance of fencing / tending operation	L.S.	5506.26	0.00	5506.26
Total for 3rd year		19235.22	14558.56	33793.78
4th Year				
(a) 1 weeding & soil working		5456.70	0.00	5456.70
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	5506.26	0.00	5506.26
Total for 4th year		10962.96	0.00	10962.96
5th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5506.62	0.00	5506.62
Total for 5th year		5506.62	0.00	5506.62
6th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5506.62	0.00	5506.62
Total for 6th year		5506.62	0.00	5506.62
7th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5506.62	0.00	5506.62
Total for 7th year		5506.62	0.00	5506.62
8th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5506.62	0.00	5506.62
Total for 8th year		5506.62	0.00	5506.62
9th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5506.62	0.00	5506.62
Total for 9th year		5506.62	0.00	5506.62
10th Year				
Protection & maintenance of fencing/ tending operation	L.S.	5506.62	0.00	5506.62
Total for 10th year		5506.62	0.00	5506.62
Grand Total:		214302.54	137215.59	351518.13

Note :- (1) Seed sowing along fencing / Protection trench towards also in the plot.
(2) Seed showing of desi baval, khijado or any local species (site specific).

Date: 19 / 09 / 2022

Place: Bhuj - Kutch

As per APCCF, Land, Gandhinagar letter dated: 18/11/2019 & 27/11/2019



(Y.S. Jhala)

Dy. Conservator of Forests
Kutch West Division, Bhuj