MODEL No-3 Annexure-4(1)

Compensatory Afforestation Scheme for Double Degraded Forest area

Diversion of 0.6548 ha. RF land for the laying of Drinking water pipeline in favour of Gujarat Water Supply & Sewerage Board of Kutch District of the State of Gujarat Lakhpat to decrees deficit of Water demand of Lakhpat Taluka of Kutch District.

(Proposed Diversion Area 0.6548 ha.)

Detailed scheme of Compensatory Afforestation for double degraded area 2.00 ha. to be carried out in lieu of 0.6548 ha. of Forest Land to be diverted in Kutch district.

1. **Details of Double Degraded Forest area.**

Village	Guhar Nani
Taluka	Lakhpat
Range	Dayapar (North)
District	Kutch
Division	Kutch (West)
Block/ Patal, Compartment No.	S.No.14/pt.
Area to be afforested	2.00 ha.
Working circle	

2. **Description of Area.**

Soil type	Black cotton with Murom
Topography	Plain
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 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 2.00 ha. area. The total afforestation cost will be about **Rs.8,60,257/- Dy. Executive Engineer. Gujarat Water Supply & Sewerage Board, P.H.S. Sub division, Dayapar, Ta.Lakhpat, Kutch** has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

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5. Technical Details :-

Technical details of Compensatory Afforestation are as Follows:-

Sr. No.	Details	Specifications
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 310.40 per day.
b	Spacement	3 X 3 mtr., 1111 plants per ha.
c	Species to be planted (No. of plants per ha.)	Gundi 211 Gugal 250 Pilu 225 Khijado 150 Desi baval 225 Chhini Lai (Tamarix aphylla) 50 **Total 1111** Minimum planting height will be 30 cm. at the time of planting. However it will vary for different species.
d	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.
e	Site Preparation	The 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	(i) Pucca structure like Check dam, check wall, retaining wall (ii) Contour trenches 2.00 x 0.45 x 0.30. 300 Nos/ha. will be dug along the contour line. the dug out soil will be heaped on the down ward side. 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.
h	Protection Trench	Protection trench, Seed sowing And planting of cuttings of Ipomea/ Glarcidia along the trench.
i	Silvicultural Operations	1st year three weeding soil working, Support watering will be provided if needed. 2nd year two weeding soil working. 3rd year one weeding soil working.

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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.
l	Proposed monitoring mechanism	(i) A plantation register is to be maintained. (ii) Monitoring is to be done as per the following norms. Forester – 100% RFO – 100% ACF – 20% DCF – 10% (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. (iv) The collar girth is also to be reordered at the end of each year. (v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo. (vi) Bamboo would be of the harvestable size by the end of 4th year. (vii) 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.
m	Regeneration cleaning	Cut-back and promotion of root suckers.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.

(Tushar B. Patel)
Dy. Conservator of Forest
Kutch West Division, Bhuj

The Compensatory Afforestation scheme at the cost of **Rs.8,60,257/-** is technically and administrative approved by the undersigned.

Date: 10 /06/2020

(Tushar B. Patel)
Dy. Conservator of Forest
Kutch West Division, Bhuj

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

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(Diversion Area 0.6548 ha.)

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

Daily Wage Rs **310.40**

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-3(1)	A	Normal Rate	107175.58	64003.39	41081.78	29859.38	9686.61	4865.20	4865.20	4865.20	4865.20	4865.20	4865.20	280997.94	56199.59	337197.53
2		B	Increased by 10% / year	117893.14	76804.07	53406.31	41803.13	14529.92	7784.32	8270.84	8757.36	9243.88	9730.40	10216.92	358440.29	71688.06	**430128.34**

Date :- 10 / 06/2020

(Tushar B. Patel)
Dy. Conservator of Forest
Kutch West Division, Bhuj

As per APCCF, Land, Gandhinagar letter dated 18.11.2019 & 27.11.2019

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(Diversion Area 0.6548 ha.)

Daily wages Rs. 310.40

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, fartillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement)	1222	0.00	1663.90	1663.90
(b) labour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	4070.55	210.82	4281.37
(c) Seedling cost for casuality replacement in one year old (20%)	222	1286.04	384.35	1670.39
(d) Seedling cost for casuality replacement in two year old (10%)	111	643.83	191.36	835.19
Total		6000.42	2450.43	8450.85
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3058.59	0.00	3058.59
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	8831.97	0.00	8831.97
Total		11890.56	0.00	11890.56
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0.00	9008.74	9008.74
Total		0.00	9008.74	9008.74
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	10865.62	21569.07	32434.69
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	8270.85	0.00	8270.85
Total		19136.47	21569.07	40705.54
4. Protection				
(a) Barbed wire fencing	L.S.	3243.47	32434.70	35678.17
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1008.72	433.00	1441.72
Total		4252.19	32867.70	37119.89
Sub Total of 0 year		41279.64	65895.94	107175.58
1st Year				
(a) Maintenance of nursery (April to June)	1222	2862.36	285.43	3147.79
(b) Transport of seedling for plantation	1111	1569.84	324.35	1894.19
(c) Planting with khamna of Min 1 m dia	1111	4826.29	0.00	4826.29
(d)Transport of seediling for casualty replacement	111	167.04	37.30	204.34
(e) 3 weeding cum soil working	1111	18812.12	0.00	18812.12

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(f) Support watering 5 times @ 3.25		12025.16	17255.26	29280 42
(g) Protection / tending operation		3892.16	0.00	3892.16
(h) Tending to natural vegetation		973.04	0.00	973.04
(i) Contigency		0.00	973.04	973.04
Total for 1st year		**45128.01**	**18875.38**	**64003.39**
2nd Year				
(a) 2 weeding & soil working		9644.46	0.00	9644.46
(b) 20 % Casually replecement, transport and planting	111+111	162.17	807.62	969.79
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0.00	9008.74	9008 74
(d) Support watering 3 times @ 3.25		7213.48	10353.15	17566 63
(e) Protection / tending operation		3892.16	0.00	3892 16
Total for 2nd year		**20912.27**	**20169.51**	**41081.78**
3rd Year				
(a) 2 weeding & soil working		9644.46	0.00	9644.46
(b) 10 % Casually replecement, transport and planting	111	81.09	403.81	484.90
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0.00	9008.74	9008.74
(d) Support watering 1 times @ 3.25		2405.03	3451.05	5856.08
(e) Protection & maintenance of fencing / tending operation	L.S.	4865.20	0.00	4865 20
Total for 3rd year		**16995.78**	**12863.60**	**29859.38**
4thYear				
(a) 1 weeding & soil working		4821.41	0.00	4821.41
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	4865.20	0.00	4865.20
Total for 4th year		**9686.61**	**0.00**	**9686.61**
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 5th year		**4865.20**	**0.00**	**4865.20**
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 6th year		**4865.20**	**0.00**	**4865.20**
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 7th year		**4865.20**	**0.00**	**4865.20**
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 8th year		**4865.20**	**0.00**	**4865.20**
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865 20
Total for 9th year		**4865.20**	**0.00**	**4865.20**
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 10th year		**4865.20**	**0.00**	**4865.20**
Grand Total :		**163193.51**	**117804.43**	**280997.94**

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

Date: 10 /06/2020

(Tushar B. Patel)
Dy. Conservator of Forest
Kutch West Division, Bhui

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

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