Compensatory Afforestation Scheme for degraded area (Model-3)

Proposal for 0.861 ha. Protected forest land for permission drinking water pipeline under programme jal jeevan mission & Nal se Jal Scheme inside of various village Harshadpur Ramnagar and Dharampur Ta. JamKhambhaliya Dist. Devbhumi Dwarka in Gujarat State.

Detailed scheme of Compensatory Afforestation for degraded area (100 Plants) to be carried out in lieu of 0.861 ha. Of Protected Forest land to be diverted in Devbhumi Dwarka district.

Details of degraded land.

District	Taluka	Range		Survey No.	Circle	Area
Porbandar	Ranavav	Ranavav	Jambuda	Unsurveyed	Inland Forest Improvement W.C	100 Plants (0.10 Ha.)
		Total				100 Plants (0.10 Ha.)

2. Description of Area.

Soil type	murram soil
Topography	Plain
Slope	Gentle
Whether the area is bearing any root stock of Vegetation	Most of the area is Degraded

3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Degraded Forest Area.

4. Schedule of Plantation Programme:-

- (i) The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest, Porbandar as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in 100 Plants. The total afforestation cost will be about Rs. 95317/- Water and Sanitation Management Organization, Dev Bhumi Dwarka 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 The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 476.00 per day.					
а	General Details						
Ь	Spacement	3 X 3 mtrs. 100 plants per ha.					
С	c Species to be planted (No. of plants per ha.)	Desi baval	25	60 cm			
		Limda	25	60 cm.			
		Vad	25	60 cm			
		pipad	25	60 cm			

		Total 100
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.
ſ	Plantation Method	Polypot raised plants will be planted during monsoon.
g	Soil & Moisture Conservation Works	(ii) Contour trenches 2.00 x 0.45 x 0.30, 50 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 Acacia and thorny Etc. will be planted during monsoon in the upper side of nala as per suitability.
h	Protection Trench	Barbed wire fencing, Seed sowing and planting of cuttings of thorny Spp. along the fence.
i	Silvicultural Operations	1 st year three weeding soil working, Support watering will be provided if needed. 2 nd year two weeding soil working. 3 rd year one weeding soil working.
j	Maintenance	It is proposed to maintain the Plantation up to ten years.
k	Subsequent silvicualtural Operation	Cleaning, 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	 (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 September 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.

		if the plantations in the sample selected, it will also be monitored by the third party selected for this purpose.
m	Regeneration cleaning	-
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.

(Lokesh mardwaj) Deputy Conservator of Forest Porbandar Division Porbandar

The Compensatory Afforestation scheme at the cost of Rs. 95317/- is technically and administrative approved by the undersigned.

> (Lokesk Thardwaj) Deputy Conservator of Forest Porbandar Division Porbandar

Counter Sign.

(Arun Armar)
Deputy Conservator of Forest Sarial Forestry Division Devbhumi Dwarka - Khambhallya



Sub: Proposal for 0.861 ha. Protected forest land for permission drinking water pipeline under programme jal jeevan Sub: Freposal Subset of Various village Harshadpur Ramnagar and Dharampur Ta. JamKhambhaliya Dist. Devbhumi Dwarka in Gujarat State.

Detailed scheme of Compensatory Afforestation for degraded area (100 Plants) to be carried out in lieu of 0.861 ha. Of Protected Forest land to be diverted in Devbhumi Dwarka district.

				Daily	wages Rs.	476.00
Spacements = 3 m x 3 m						
Density 100 Seedling/Ha.						
1st year replacement 10 % = 10 seedling/ha.						
and year replacement 20 % = 20 seedling/hn.						
and year replacement 10 % = 10 seedling/ha.						
Total Seedlings = 140 seedling/ha.						
Polypot size: 20 cm x 30 cm x 250			,			
ltem of work	Unit	Qty.	Unit Rate	Labour (Rs.)	Material (Rs.)	Total
	2	3	4	5	6	7
0 year						
Nursery						
(a) Cost of soil, manure, seeds, water, fartillizer, insecticides, implements, rent of lands. Shade, etc.	No	110	2.46	0	271	271
(b) labour: Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	No	110	7.36	810	0	810
(c) Maintenance of Seedling, watering, shifting & grading innsecticide harmones etc from april to july	No	110	2.14	188	47	235
d) Miscellaneous & Contigency	Ls	L5		0	324	324
Total				997	642	1640
2. Area Development (Land Preparation)	На	1	0	0	0	0
b) Cleaning of site, Teding/Purning Singling. Climber	Md/Ha	3	476	1428	0	1428
utting etc.			,,,,,,,			
:) Singling and Cut-Back / Tending of Existing stock	Md/Ha	6	0	0	0	0
 Alignment and digging of pits 45 cm X 45 cm X 45 cm or planting 	Pit	100	0	0	0	0
) Soil Analysis	No	1	0	0	0	.0
otal				1428	0	1428
SMC Works						
i) 1. Stone dykes (5.0 x 1.5 x 1.0 Mts = 7.5 cum each) iii) 2.65 CMT/Manday. 10 dykes per Ha. 2. Nala bunding, Gully plugging, Gabion structures etc.	СМТ	0	0	0	0	0
Contour trench (2.0 x 0.30 x 0.45 Mts = 0.27 CMT	No	70	79.33	5553	0	5553
Water Harvesting Structures (van Talao, Earthen Dams,	Ls	Ls		5397	0	5397
tal of SMC Works	-			10950	0	10950
					-	
Protection / Trench Fencing	RMT	83	0	0	0	(
Zeta / Fencing and seed sowing.			13.69	-	-	113
Sowing of seeds / cutting on soil bund of between thor	RMT	83		324	813	
Trench cum mound fencing on the pertphery of the plot	RMT	83	0	0	0	(



				324	813	1137
otal cmetivety : Barbod wire fencing @ Rs.200.0 Per RMT.	RMT	250	0	0	0	0
	No	100	0	0	0	0
ant Cage th Total for Advance work				13699	1455	15154
th Total for Automot				130.55		
(Year	No	20		- 26	65	194
Seofling cost for casuality	140	20	9.1	130	03	.,,
Planting					206	475
of seedline for plantation	No	110	4.32	190	285	and the second second
	No	100	2.7	54	216	270
at a side with Khampa of With LO Mt. Diameter	No	100	5.94	594	0	594
and the court workings (110 did to 15 cm	No	300	5.5	1651	0	1651
deep) in Aug to oct. (Approx 80 plants / Manday)						
or Ploughing Plain area-2						
c) Sawing of grass seed pellets	Ls	Ls		0	0	0
Sub Total for Current year Planting				2619	566	3184
						4217
Support Watering (Five times) with Soil Working	No	500	8.63	1727	2590	4317
Up keep of the Plantation Area, fencing, protection	Md/ha	18	476.00	14571	0	14571
ect, 1 person per 20 ha plantation = 36 Manday / Hn.						
Sub Tota	1			16298	2590	18889
Total for Current (1st) Year				18917	3156	22073
Tetal for Current (15ty 155)						
2nd Year						
1. 2nd year cultural operation		20	0.00	132	65	196
(a) Casuality replacement, transport and planting.	No	20	9.82	1651	0	1651
(c) Three weeding cum soil workings, (1m dia. & 15	No	300	5.5	1783	65	1848
Sub Total for Cultural Operations			-	1763	0.5	10.0
	1	10	176.00	16190	0	16190
2 Up keep of the Plantation Area, fencing, protection ect, 1 person per 20 ha plantation = 36 Manday / Ha.	Mnth	18	476.00	10190	ď	
	На	300	8.63	1036	1554	2590
4 Support Watering (Three times) Tota				17227	1554	18781
Sub Total for 2nd Year	"			19010	1619	20629
SED TOTAL TO THE						
3nd Year			-			
1. 3rd Year cultural operation		10	9,82	66	32	98
(a) Casualty replacement, transport and plantion.	No	10		2785	0	2785
(b) Two weedings cura soil workings (1m cla. & 15	No	200	13.92	2851	32	2883
Sub Total for Cultural Operations			0.62	691	1036	172
L Support watering 2 times	No.	200	8.63	16190	0	16190
Up keep of the Plantation Area, fencing, protection	Mnth	18	476.00	10190		1017
ect, I person per 20 ha plantation = 36 Manday / Ha.			-	1/001	1026	1791
Tot	al		-	16881	1036	20800
Total for 3rd year				19732	1009	20000
4th Year Operations	-					
Up keep of the Plantation Area, fencing, protection	Md/Ha	- 5	476	2380	0	2380
ect, I person per 20 ha plantation = 18 Manday / Ha.	Maria					
C. I. Tr.			-	2380.00	2380.00	2380.00
Sub Total for 4th year				*300'00	2300.00	2000.01



Grand Total	-			88018	7299	9531
The Cost of Supervision/subsequental silvicultureal Operations		20%		0	0	
Sub Total				88018	7299	9531
Sub Total for 10th year				2380.00	0.00	2380.0
ect, 1 person per 20 ha plantation = 18 Manday / Ha.					0.00	2200.0
10th Year Operations 1. Up keep of the Plantation Area, fencing, protection	Md/Ha	5	476	2380	0	238
Sub Total for 9 th year				2380.00	0.00	2380.0
ect, 1 person per 20 ha plantation = 18 Manday / Ha.				2200.00	0.00	2380.0
9th Year Operations 1. Up keep of the Plantation Area, fencing, protection	Md/Ha	5	476	2380	0	238
Sub Total for 8 th year				2380.00	0.00	2380.0
Up keep of the Plantation Area, fencing, protection ect, 1 person per 20 ha plantation = 18 Manday / Ha.	Md/Ha	5	476	2380		
Sth Year Operations			47/	2380	0	238
sub Total for 7th year	+			2380.00	0.00	2380.0
ect. 1 person per 20 ha plantation = 18 Manday / Ha.					0.00	2790.0
th Year Operations Up keep of the Plantation Area, fencing, protection	Md/Ha	5	476	2380	0	2380.0
ub Total for 6th year	-			2380.00	0.00	2380.0
Up keep of the Plantation Area, fencing, protection ect, 1 person per 20 ha plantation = 18 Manday / Ha.	Md/Ha	.5	476	2380	0	236
th Year Operations						238
ub Total for 5th year				2380.00	0.00	2380.0
ect. 1 person per 20 ha plantation = 18 Manday / Ha.						
Up keep of the Plantation Area, fencing, protection	Md/Ha	5	476	2380	0	238
h Year Operations						

(Lokesh Burdwaj)
Dy. Conservator of Forests
Porbandar Division

Counter Sign.

(Arunkumfar)

Deputy Conservator of Forest

Social Forestry Division

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