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Diversion Proposal for diversion of 0.0562 ha. of land in Gujarat (0.0142 ha. in Valsad and 0.042 ha. in Anand Dist.) of Gujarat for Development of Mumbai-Ahmedabad High Speed railway Project.

Check list No.18

Statement Showing the detail of degraded forest land identified for compensatory plantation.

Sr. no.	District/ Division	Taluka	Range	Village	S.no.	F.S. No.	Coupe no.	CA. Area	Remark
1	Valsad (south)	Umargam	Sanjan	Govada	177.Pt	XI	3	1.00	



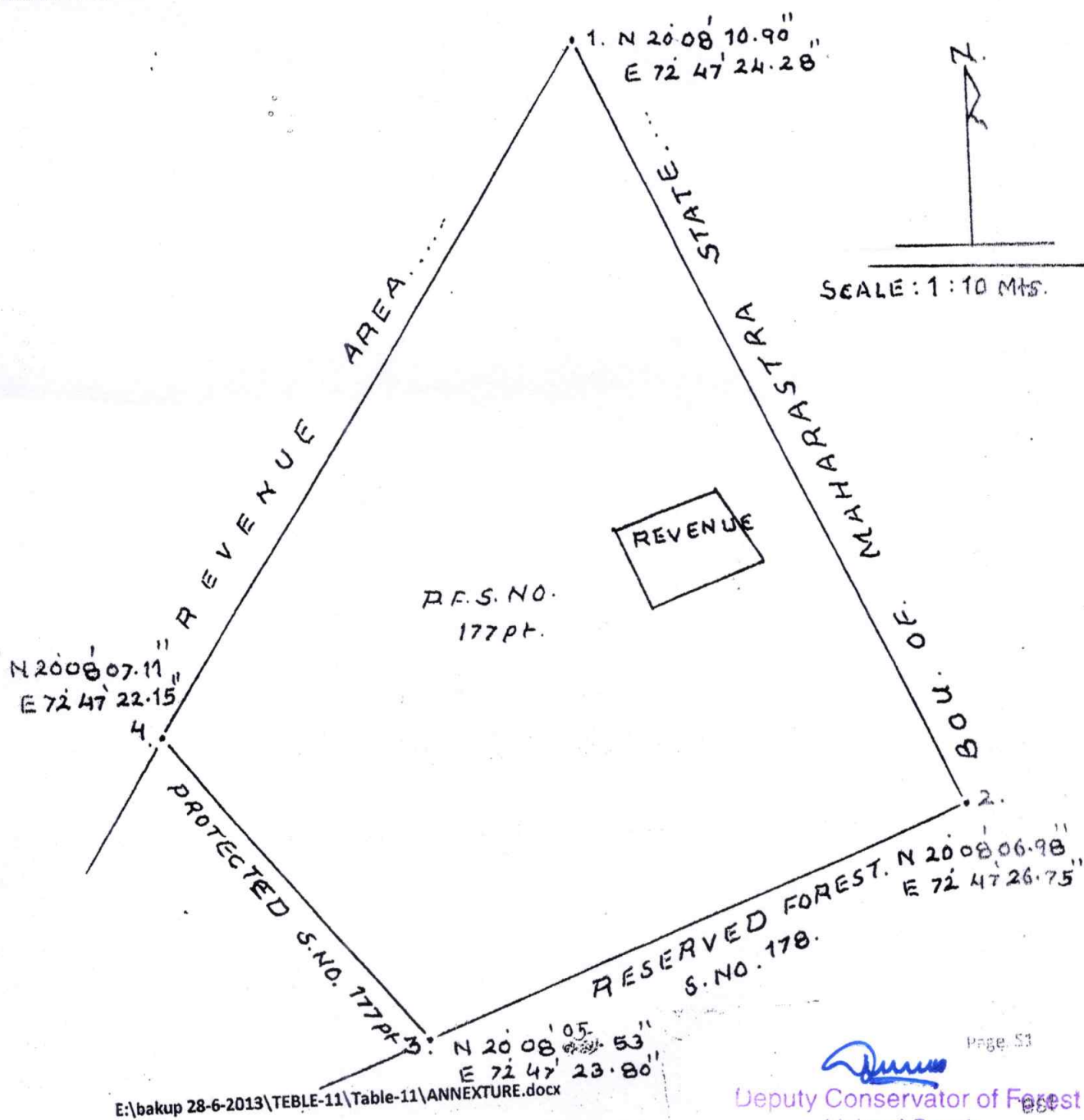
(R.B.Solanki)

Dy. Conservator of Forest
Valsad South

Diversion Proposal for diversion of 0.0562 ha. of land in Gujarat (0.0142 ha. in Valsad and 0.042 ha. in Anand Dist.) of Gujarat for Development of Mumbai-Ahmedabad High Speed railway Project.

The Map showing the Detail of Degraded Forest land identified for Scanned copy of the Toposheet map of the forest land proposed for compensatory afforestation prepared by using DGPS or Total station. Village: Govada, Ta: Umargam, Dist: Valsad. Division: Valsad south,

S.No./Coupe No.: 177pt./3, C.A. Area: 1.00.



Compensatory Afforestation Scheme for Degreded Forest area

Diversion of 0.0562 ha. Of Forest land in Gujarat (0.0142 ha.in Valsad and 0.042 ha.in Anand Dist.)of Gujarat for development of Mumbai-Ahemdabd High speed Railway Project.

Detailed scheme of Compensatory Afforestation for Degreded Forest area 0.0142 ha. To be carried out in lieu of 1.00 ha. Of Degreded Forest land to be diverted in Valsad District.

1 Details of degraded land

Village	:	Govada
Taluka	:	Umargam
Range	:	Sanjan
District	:	Valsad
Division	:	Valsad South Division
Survey No	:	177pt
Area to be afforested	:	1.00 Ha.
Working Circle	:	Conservation Working Circle

2 Description of Area.

Soil type	Brown-Murom
Topography	Flat
Slope	Medium
Whether the area is bearing any root stock of Vegetation	Blank

3 Name of Plantation programme:-

Compensatory Afforestation Scheme for degraded area

4 Schedule of Plantation programme:-


- (i) The Compensatory Afforestation on Degreded Forest area would be started by Dupety Conservator of Forest Valsad South Division as early as a 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.6,53,500/-** Mumbai-Ahemdabad High Speed Railway Project. 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	Specofications		
(a)	General Details	The C.A. will be taken under compensatory Afforestation for Degreded Forest Areas. The prevailing wage rate is 340.20 per day.		
(b)	Spacement	3 X 3 mtr., 1111 plants per ha.		
(c)	Species to be planted (No. Of plants per ha.)	Khair	100	65 cm.
		Kadaya	30	75 cm.
		Bael	40	65 cm.
		Bamboo	100	65 cm.
		Harde	50	75 cm.
		Sadad	80	90 cm.
		Baheda	50	90 cm.
		Arjun Sadad	70	90 cm.
		Haldu	70	75 cm.
		Sisam	100	65 cm.
		Kalam	70	75 cm.
		Kilai	70	90 cm.
		Mahuda	70	75 cm.
		Bhilamo, Davlo, Tetu, Biyo.	61	65 cm.
		Teak	150	Stump of minimum 6 cm. Girth
		Total:	1111	
(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 45X 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) Coutour 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. Gukky plugging & nala banding using the loose stone available in the area will be carried out as per requirement. seeds of jatropa, Agava plants 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 Ipomea / Glarcidia along the fence		
(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.		

(j)	Maintenance	It is proposed to maintain the Plantation up to ten years.								
(k)	Subsequent Silvicultural Operation	Cleaning, cutback, 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	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms</p> <table><tr><td>Forester:-</td><td>100%</td></tr><tr><td>RFO:-</td><td>100%</td></tr><tr><td>ACF:-</td><td>20%</td></tr><tr><td>DCF:-</td><td>10%</td></tr></table> <p>(iii) The result 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.</p> <p>(iv) The collar girth is also to be reordered at the end of each year.</p> <p>(v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo.</p> <p>(vi) Bamboo would be of the harvestable size by the end of 4th year.</p> <p>(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.</p>	Forester:-	100%	RFO:-	100%	ACF:-	20%	DCF:-	10%
Forester:-	100%									
RFO:-	100%									
ACF:-	20%									
DCF:-	10%									
(m)	Regeneration cleaning	Cut-back and promotion of root suckers.								
(n)	Silvicultural & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.								


 Deputy Conservator of Forest
 Valsad South Division
 Valsad

The Compensatory Afforestation scheme at the cost of **Rs.6,53,500/-** is technically and administrative approved by the undersigned.


 Deputy Conservator of Forest
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Model No - 3
Annexure -4 (1)

Compensatory Afforestation Scheme for Degreded Forest Area under FCA proposals

Dally wages Rs. 340.20

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 seedling =1333 seedling/ha.				
polypot size : 15 cm X 25 cm X 200				
Item of work	Qty.	labour	Matrrial	Total
1	2	3	4	5
0 Year				
Nursery				
Cost of soil, manure, seeds, water, fartilliser, (a) insecticides, implements, rent of land. Shade, etc. (including 10 % for casualty replacement)	1222	0	2006	2006
labour: Preparation of beds, filling and (b) arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4907	254	5162
(c) seedling cost for casualty replacement in one year old (20%)	222	1550	463	2014
(d) seedling cost for casualty replacement in two year old (10%)	111	776	231	1007
Total		7234	2954	10188
2. Area Development (Land Preparation)				
(a) Survey, Cutback and promotion of root suckers		7494	0	7494
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 18.00	39100	0	39100
Total		46594	0	46594
(a) Natural fertilizer (Neem cake/castor cake)	1111 @ 8.00	0	10861	10861
Total		0	10861	10861
3.SMC Works				
(a) Check wall/ retainingwall/ checkdem/ (all pucca only)	L.S	13100	26004	39103
(b) Contour trench 2 M. X 45 Cm. X 30 Cm. As per Rs.57.00/rmt (300 trench)	600 rmt.	66867	0	66867
Total		79967	26004	105970
4.Protection				
(a) Birber wire fencing	1.00 ha= 200 rmt.	0	88000	88000
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1216	522	1738
Total		1216	88522	89738

Item of work	Qty.	labour	Matrrial	Total
Total for 0 year		135011	128341	263352
1st Year				
(a) Maintenance of nursery (April to june)	1222	3765	375	4140
(b) Transport of seedlinf o plantation	1111	8532	2133	10665
(c) Planting with khamna of min 1 m. Doa	1111	7998	0	7998
(d) Transport & planting of seeding for casualty replacement	111	1813	459	2272
(e) 3 weeding cum soil working	1111	24742	0	24742
(f) Support watering 5 times @ 3.25		15816	22694	38510
(g) Protection /tending operation		5119	0	5119
(h) Tending to natural vegetation		1280	0	1280
(i) Contigency		0	1280	1280
Total for 1st year		69064	26941	96005
2nd Year				
(a) 2 Weeding & soil working		13741	0	13741
(b) 20% Casually replcement, transport and planting	111+111	982	3928	4910
(c) Natural fertilizer (Neem cake/castor cake) etc.	Rs.5/Plant	0	12836	12836
(d) Support watering 5 times @ 3.25		10278	14751	25029
(e) Protection /tending operation		5546	0	5546
Total for 2nd year		30547	31515	62062
3rd Year				
(a) 2 Weeding & soil working		14799	0	14799
(b) 10% Casually replcement, transport and planting	111	535	2115	2650
(c) Natural fertilizer Neem cake etc.	Rs.5/Plant	0	13823	13823
(d) Support watering 5 times @ 3.25		3690	5295	8986
(e) Protection & maintenance of fancing / tanding operation	L.S	7465	0	7465
Total for 3rd year		26489	21234	47723
4th Year				
(a) 1 Weeding & soil working		7926	0	7926
(b) Protection & maintenance of fancing / tanding operation	L.S	7998	0	7998
Total for 4th year		15925	0	15925
5th Year				
Protection & maintenance of fancing / tanding operation	L.S	8532	0	8532
Total for 5th year		8532	0	8532
6th Year				
Protection & maintenance of fancing / tanding operation	L.S	9065	0	9065

Item of work	Qty.	labour	Matrrial	Total
Total for 6th year		9065	0	9065
7th Year				
Protection & maintenance of fancing / tanding operation	L.S	9598	0	9598
Total for 7th year		9598	0	9598
8th Year				
Protection & maintenance of fancing / tanding operation	L.S	10131	0	10131
Total for 8th year		10131	0	10131
9th Year				
Protection & maintenance of fancing / tanding operation	L.S	10665	0	10665
Total for 9th year		10665	0	10665
10th Year				
Protection & maintenance of fancing / tanding operation	L.S	11198	0	11198
Total for 10th year		11198	0	11198
Sub Total:		336224	208031	544254
The cost of supervision / subsequental silvicultureal operations	20%	67245	41606	108851
Grand Total:		403468	249637	653105

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.

Compensatory Afforestation will be done in 1.00 ha. Area.

Total Cost Rs. 653500/-

Compensatory Afforestation for degraded area 1.00 ha.	Total Ha.	1.00 Ha. Rs.	Total Rs.
	1.00	653500	653500

Compensatory Afforestation Total cost Rs. 6,53,500/-


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