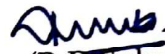


**Proposal for widening of Construction of R.O.8 (Railway over Bridge) Approaches on LC-No.71 Mumbai Delhi Traffic route of Western Railway of Valsad District on Malav-Vankas Road Ch.42.780 Diversion of Area 0.936 ha.(Reserved forest )**

**Check list No.18**

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

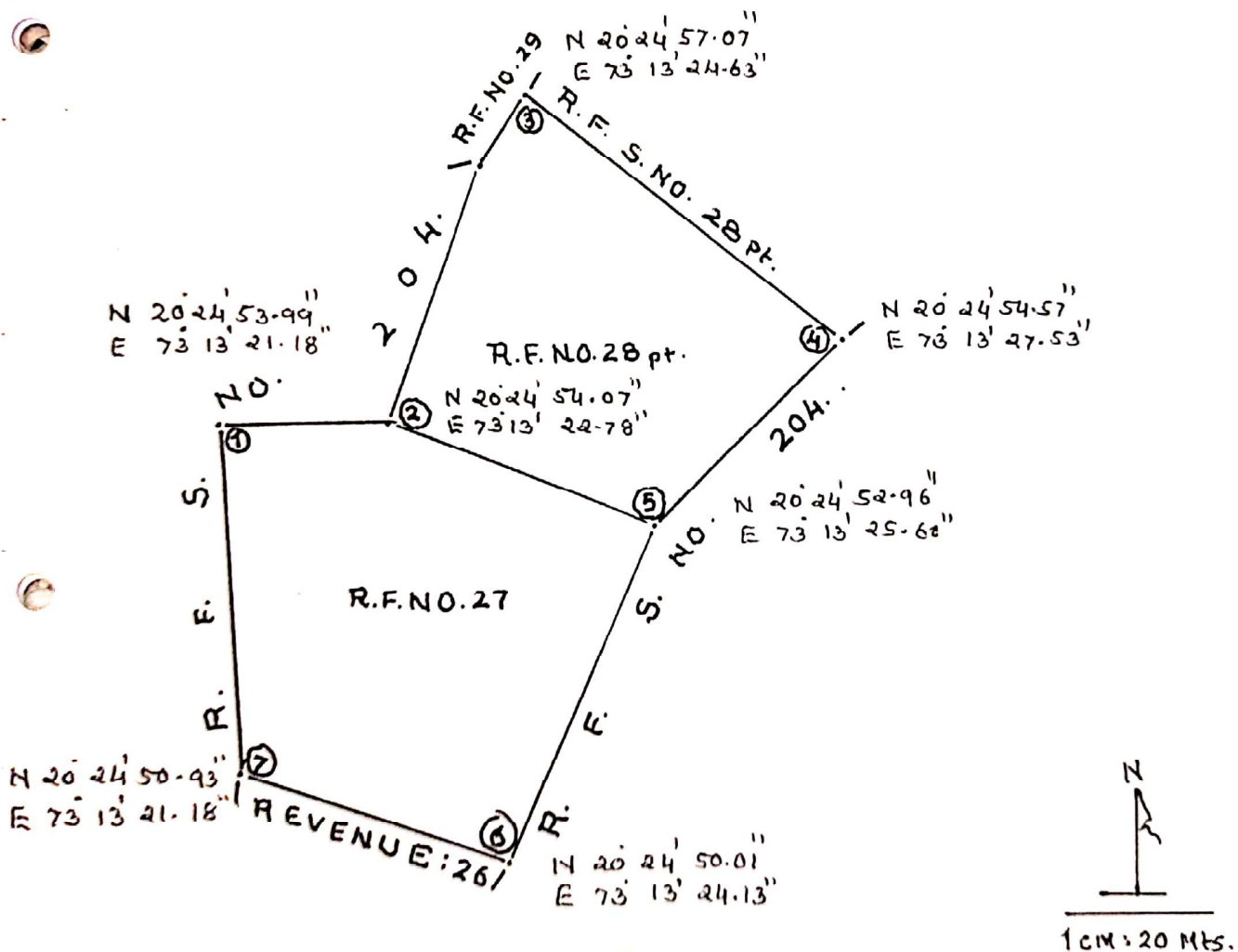
Sr. no.	District/ Division	Taluka	Range	Village	S.No.	F.S. No.	Coupe no.	CA. Area	Remark
1	Valsad (south)	Kaprada	Nanapondha	Arnai	27, 28	X	8	2.00	

  
(R.B.Solanki)  
Dy.Conservator of Forest  
Valsad South

**Proposal for Widening of Construction of R.O.B.in Approaches on L.C.No.71 Mumbai-Delhi Traffic Route of Western Railway of Valsad District on Malav-Vankas Road Diversion of Area 0.936 ha.(Reserved forest)**

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: Arnai, Ta: Umargam, Dist: Valsad. Division: Valsad south,

R.F.Survey:27,28 C.A.Area:2.00.



Proposal for widening of Construction of R.O.8 (Railway over Bridge) Approaches on LC. No.71 Mumbai Delhi Traffic route of Western Railway of Valsad District on Malav-Vankas Road Ch.42.780 Diversion of Area 0.936 ha.( Reserved Forest)

### Compensatory Afforestation Scheme for degraded area

#### 1 Details of degraded land

Village	:	Arnai
Taluka	:	Kaprada
Range	:	Nanapondha
District	:	Valsad
Division	:	Valsad South
Survey no./Compt. No.	:	27,28
Area to be afforested	:	2.00 ha.
Working Circle	:	Coservation Working Circle

#### 2 Description of Area.

Soil type	Brown-Murom
Topography	Hilly
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:-

- The Compensatory Afforestation on degraded area would be started by Dupety Conservator of Forest Valsad South Division as early as possible after the proposal is formally approved.
- Compensatory Afforestation will be done in **2.00 ha.** Area. The total afforestation cost will be about **Rs.10,10,000/-** 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 souble degraded Forest Areas. The prevalling wage rate is <b>324.20</b> per day.		
(b)	Spacement	3 X 3 mtr., 1111 plants per ha.		
		Plant	Species	Hight in centimeter




(c)	Species to be planted (No. Of plants per ha.)	Khair	150	65
		Kadaya	100	75
		Bael	50	65
		Bamboo	150	50
		Harde	100	75
		Sadad	100	90
		Baheda	50	90
		Arjun Sadad	100	90
		Haldu	100	75
		Garmaro, Sisu, sisam, Ashoka, Bhilamo, Subavar, Kaju, and Aritha	61	65
		Teak	150	90
		<b>Total:</b>	<b>1111</b>	
(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 fenching, seed sowing and planting of cuttings of Ipomea / Glarcidia along the fence		
(i)	Silvicultural Operatio	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 Operaation	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	(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 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.	

		(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)	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.10,10,000/-** is technically and administrative approved by the undersigned.

  
Deputy Conservator of Forest  
Valsad South Division  
Valsad

**Model No - 3**

**Annexure -4 (1)**

**Compensatory Afforestation Scheme for double degraded area 1.00 Ha.**

Spacements = 3 m X 3 m		Dally wages Rs. 324.20		
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				
(a) Cost of soil, manure, seeds, water, fartilliser, insecticides, implements, rent of land. Shade, etc. (including 10 % for casualty replacement)	1222	0	1912	1912
(b) labour: Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4677	242	4919
(c) seedling cost for casualty replacement in one year old (20%)	222	1478	442	1919
(d) seedling cost for casualty replacement in two year old (10%)	111	740	220	960
Total		6894	2815	9709
2. Area Development (Land Preparation)				
(a) Survey, Cutback and promotion of root suckers		3514	0	3514
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@6.00	10147	0	10147
Total		13661	0	13661
(a) Natural fertilizer (Neem cake/castor cake)	1111@5.00	0	10350	10350
Total		0	10350	10350
3.SMC Works				
(a) Check wall/ retainingwall/ checkdem/ (all pucca only)	L.S	12484	24781	37264
(b) Contour trench 2 M. X 45 Cm. X 30 Cm. As per Rs.17.00/rmt (300 trench)	600 rmt.	9502	0	9502
Total		21986	24781	46767
4.Protection				
(a) Barbed wire fencing	1.00 ha=200	0	86900	86900
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1159	497	1656
Total		1159	87397	88556



Item of work	Qty.	labour	Matrrial	Tota.
<b>Total for 0 year</b>		<b>43700</b>	<b>125344</b>	<b>169044</b>
<b>1st Year</b>				
(a) Maintenance of nursery (April to june)	1222	3588	358	3945
(b) Transport of seedling o plantation	1111	1970	407	2376
(c) Planting with khamna of min 1 m. Doa	1111	6049	0	6049
(d) Transport & planting of seeding for casualty replacement	111	209	47	256
(e) 3 weeding cum soil working	1111	23578	0	23578
(f) Support watering 5 times @ 3.25		15072	21627	36699
(g) Protection /tending operation		4878	0	4878
(h) Tending to natural vegetation		1220	0	1220
(i) Contigency		0	1220	1220
<b>Total for 1st year</b>		<b>56563</b>	<b>23657</b>	<b>80221</b>
<b>2nd Year</b>				
(a) 2 Weeding & soil working		13095	0	13095
(b) 20% Casually replcement, transport and planting	111+111	220	1097	1317
(c) Natural fertilizer (Neem cake/castor cake) etc.	Rs.5/Plant	0	12232	12232
(d) Support watering 5 times @ 3.25		9794	14057	23852
(e) Protection /tending operation		5285	0	5285
<b>Total for 2nd year</b>		<b>28395</b>	<b>27386</b>	<b>55781</b>
<b>3rd Year</b>				
(a) 2 Weeding & soil working		14103	0	14103
(b) 10% Casually replcement, transport and planting	111	119	590	709
(c) Natural fertilizer Neem cake etc.	Rs.5/Plant	0	13173	13173
(d) Support watering 5 times @ 3.25		3517	5046	8563
(e) Protection & maintenance of fancing / tanding operation	L.S	7114	0	7114
<b>Total for 3rd year</b>		<b>24852</b>	<b>18810</b>	<b>43662</b>
<b>4th Year</b>				
(a) 2 Weeding & soil working		7554	0	7554
(b) Protection & maintenance of fancing / tanding operation	L.S	7622	0	7622
<b>Total for 4th year</b>		<b>15176</b>	<b>0</b>	<b>15176</b>
<b>5th Year</b>				
Protection & maintenance of fancing / tanding operation	L.S	8130	0	8130
<b>Total for 5th year</b>		<b>8130</b>	<b>0</b>	<b>8130</b>
<b>6th Year</b>				
Protection & maintenance of fancing / tanding operation	L.S	8639	0	8639

Item of work	Qty.	labour	Matrrial	Total
<b>Total for 6th year</b>		<b>8639</b>	<b>0</b>	<b>8639</b>
<b>7th Year</b>				
Protection & maintenance of fancing / tanding operation	L.S	9147	0	9147
<b>Total for 7th year</b>		<b>9147</b>	<b>0</b>	<b>9147</b>
<b>8th Year</b>				
Protection & maintenance of fancing / tanding operation	L.S	9655	0	9655
<b>Total for 8th year</b>		<b>9655</b>	<b>0</b>	<b>9655</b>
<b>9th Year</b>				
Protection & maintenance of fancing / tanding operation	L.S	10163	0	10163
<b>Total for 9th year</b>		<b>10163</b>	<b>0</b>	<b>10163</b>
<b>10th Year</b>				
Protection & maintenance of fancing / tanding operation	L.S	10671	0	10671
<b>Total for 10th year</b>		<b>10671</b>	<b>0</b>	<b>10671</b>
<b>Sub Total:</b>		<b>225090</b>	<b>195197</b>	<b>420287</b>
The cost of supervision / subsequental silvicultureal operations	20%	45018	39039	84057
<b>Grand Total:</b>		<b>270108</b>	<b>234236</b>	<b>504345</b>

**Note:**

1 0

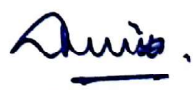
2 Planting of cutting of ipomea / Glaricidia along the fencing towards outer side.

**Compensatory Afforestation will be done in 1.00 ha. Area.**

**Total Cost Rs. 505000/-**

Compensatory Afforestation for degraded area 2.00 ha.	Total Ha.	1.00 Ha. Rs.	Total Rs.
	2.00	505000	1010000

**Compensatory Afforestation Total cost Rs. 10,10,000/-**

  
 Deputy Conservator of Forest  
 Valsad South Division  
 Valsad



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**Proposal for Widening of Construction of R.O.B.in Approaches on L.C.No.71 Mumbai-Delhi Traffic Route of Western Railway of Valsad District on Malav-Vankas Road Diversion of Area 0.936 ha.(Reserved forest)**

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: Arnai, Ta: Umargam, Dist: Valsad. Division: Valsad south.

R.F.Survey:27, C.A.Area:2.00. 28





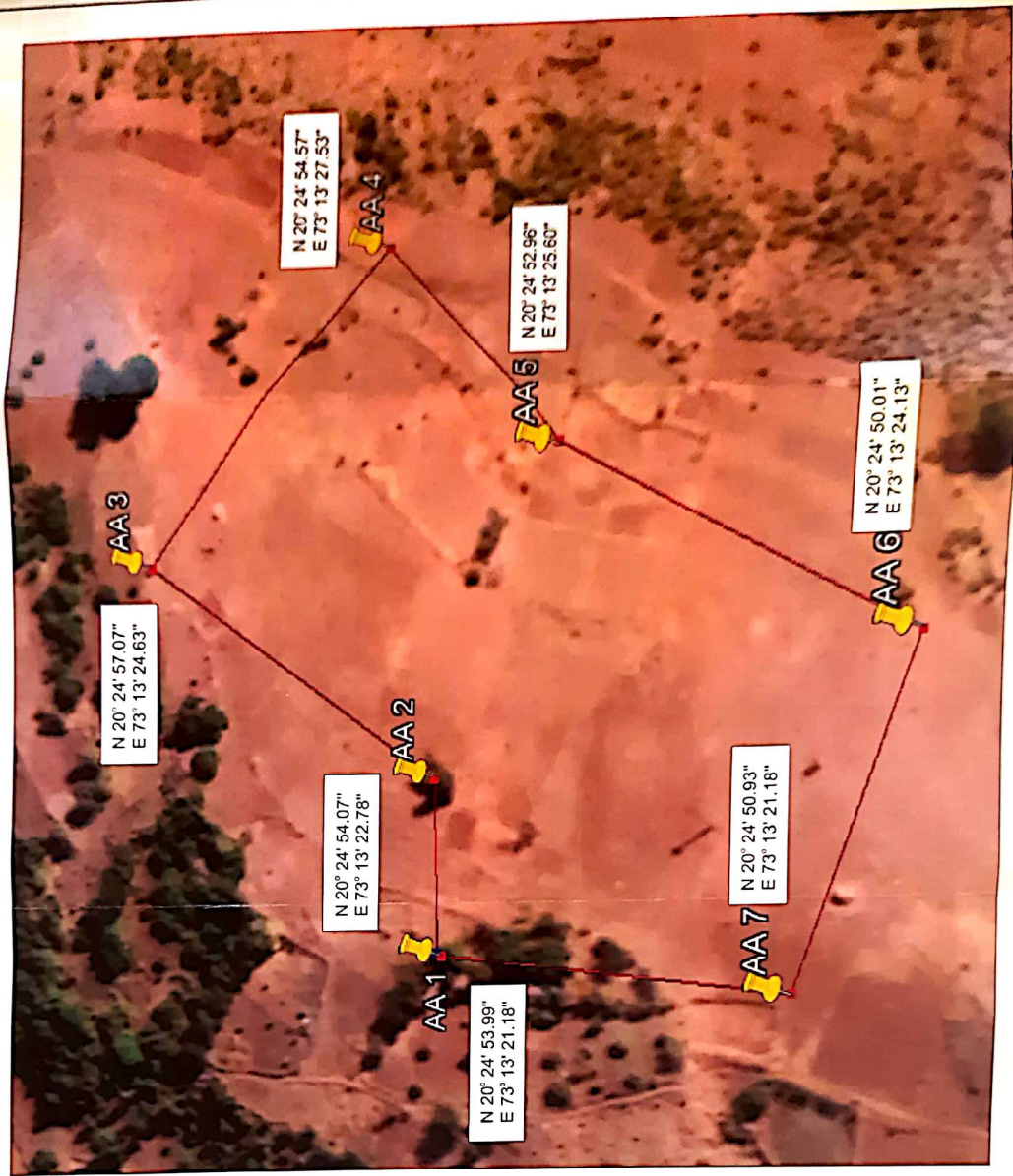
PROPOSAL FOR WIDENING OF CONSTRUCTION OF R.O.B IN  
APPROACHES ON L.C NO. 71 MUMBAI - DELHI TRAFFIC  
ROUTE OF WESTERN RAILWAY OF VALSAD DISTRICT ON  
MALAV - VANKAS ROAD CH:4.780

Google Earth - Edit Polygon

Name: Aravali

Description	Style, Color	View	Altitude	Measurements
Perimeter:		0.39	Miles	
Area:		2.0	Hectares	

OK Cancel



*Aravali*  
C.A. B. Solanki  
Deputy Conservator of Forest  
Valsad South.


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Proposal for widening of Constuction of R.O.8 (railway over Bridge) Approaches on LC-  
No.71 Mumbai Delhi Trafific route of Western Railway of Valsad District on Malav - Vankas  
Road Ch.42.780 Diversion of Area-0.936 ha. (Reserved Forest)

ANNEXURE - 20

**Certificate from the DCF, that non- forest land selected for compensatory afforestation is in a compact block and contiguous to forest area or in close proximity of forest area and suitable from the management and protection point of view.**

The Question of non-forest land does not arise but compensatory afforestation will be carried out in double degraded forest area.

  
Deputy Conservator of Forests,  
Forest Division,  
Valsad.