

Abstract

Name of work: Raising Compensatory Afforestation plantation for total of 0.6 ha for Diversion of 0.3009 of Protected Forest Land for laying of 160/125/90/63 mm dia MDPE pipeline parallel and across roadside for Kala-Karajgam – Surangi-Saily village and surrounding areas in the U.T. of Dadra and Nagar Haveli,

Survey No. 8 Village : Nana Randha Area=0.6Ha

Sr no	Particulars of Items	Amount (in Rs.)
01	Nursery Cost	26,400/-
02	Formation Cost	27,131/-
03	Maintenance of plantation for 10 years & Chainlink Fencing work	4,59,197/-
04	Soil and Moisture conservation work	6,939/-
	TotalRs.	5,19,667/-


RFO (NR)


Assistant Conservator of Forest (HQ)
Dadra & Nagar Haveli
Silvassa


Deputy Conservator of Forest (T)
Dadra & Nagar Haveli
Silvassa

NORMS FOR RAISING OF NURSERY
(In Terms of Mandays)
For 10,000 Seedlings
Size of Polythene Bags 20cm x 30 cm
for 1 year

Sr. No.	Particular	Quantity	Value in Rs.	M.D.	Rate per Mandays	Amount
1	Labor Charges for cleaning of the site and erection Chainlink fencing	Departmental Chainlink & Poles		30	355.3	10659.00
2	Collection of quality Earth	12.70 Cu. Mtr	2032.00	131.94	355.3	46878.28
3	Collection of Manure	12.70 Cu. Mtr	5080.00		355.3	
4	Collection of Sand	12.70 Cu. Mtr	5080.00		355.3	
5	Mixing of all above three ingredient after pulverizing			22	355.3	7816.60
6	Filling of the polythene bags			78	355.3	27713.40
7	Preparation of beds with wooden materials shifting and arrangement of polythene bags.			24	355.3	8527.20
8	Collection of seeds and sowing			6	355.3	2131.80
9	Watering for 150 days and weeding works. Feb-June			300	355.3	106590.00
10	Weeding and application of pesticide including rearranging as per requirment for 5 months July-Nov.			200	355.3	71060.00
11	Shifting of 10000 polythene bags and rearranging for 5 Months and transplanting June to Nov			24	355.3	8527.20
12	Watering weeding and rearranging works from December - June next Season 7 months			400	355.3	142120.00
13	Polythene bag size 20x30. C.m/250 to 200 Guage (150 No/kg) 10.66 Kg for 1600 bags 130 per kg pb			8.3	355.3	2948.99
14	Cost of Fungicide and pesticides and other medicines	lump sum Rs. 500/-		5.41	355.3	1922.17
Total				1229.7		436894.65

10000 Seedlings :- 436895

1 Seedling :- 44.00

Cost per seedlings per ha = 1000 X Rs. 44 = Rs. 44000/-

Cost for 0.60 Hect = 44000 X 0.60 = Rs. 26,400/-

RFO(NR)

ACE(HQ)

DCF(T)

**Formation Cost for Raising Plantation in 1 hect. for
1000 seedling per Hect.**

Rate per Mandays			355.30
Sr. No.	Particulars	1000 Seedling M.D.	Amount
1	Site Cleaning	10	3553.00
2	Alignment	2.2	781.66
3	A) Pit Digging (45cm x 45cm x 45cm)	37	13146.10
4	Transportation plantation (12cm x 25cm x polythene bag)	17	6040.1
5	Weeding		
	A) 1st Weeding	12.5	4441.25
	B) 2nd Weeding	10.5	3730.65
	C) 3rd Weeding	10	3553.00
6	Application & Fertilizer	1.5	532.95
7	Watch & Ward	15	5329.50
Total		115.7	41108.21
8	Any other operation		
9	Misc. 10% Contigent of (Above all)	11.57	4110.82
Grand Total		127.27	45219.03

Formation Cost for 1 Hect Plantation = Rs. 45219/-

Formation Cost for 0.60 Hect = 45219 X 0.60 = Rs. 27,131/-

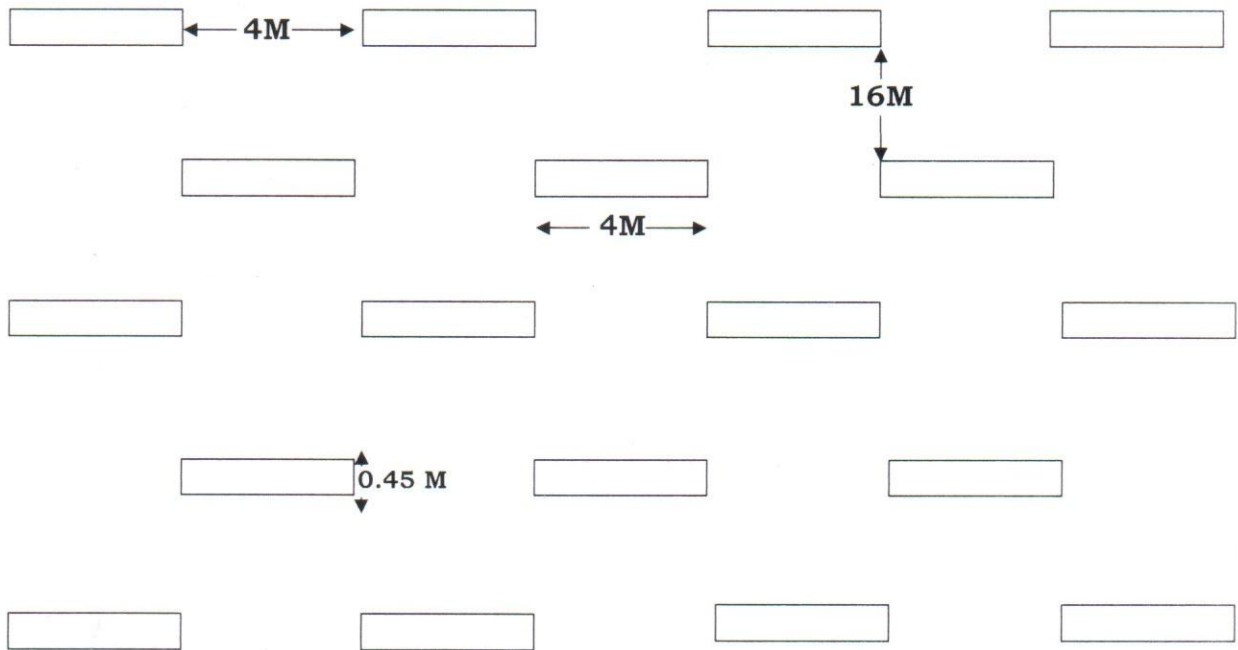
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ACF(HQ)

DCF(T)

STAGGERED CONTOUR TRENCHING

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MEASUREMENT SHEET

- **Length of each trench:** 4 Meter.
 - **Dimensions:** 4 Mt. x 0.45 Mt. x 0.30 Mt. (L x B x H)
 - **Horizontal distance between two trenches:** 4 Meter.
 - **Vertical distance between two rows:** 16 Meter.
 - **Number of maximum trenches in one hectare:** 78.
- As per the G.S.O.R., Page no.: 5, item no.: 3, Code: 04 B001C.
Rate of earth work in hard murrum is Rs. 266.00 per cubic meter.
For preparation of trench of following specification
4M x 0.45M x 0.30M
Volume = L x B x H
= (4.0 x 0.45 x 0.30) M³
= 0.54 cubic meter.
- Therefore, expenditure per trench = Rs. 266.00 x 0.54
= Rs. 143.64
- The rate per MD is Rs. 355.30
- Therefore, MD per trench is Rs. 143.64 / Rs. 355.30 = 0.40 MD.


RFO (NR)

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Rate Analysis

Sr No	Particulars	MD
01	Number of maximum trenches in 1 ha= 78	-
02	MD per trench is (₹ 143.64/₹ 355.30)	0.40
03	MD per 1 ha (78 x 0.40)	31.2
	Say .	31

Cost per 1 ha = 31 MD

Cost per 1 Hect = 31 x 0.6 = 18.6 MD


Range Forest Officer (NR)
Dadra & Nagar Haveli
Silvassa

Estimate for Soil and moisture conservation Work

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Sr No	MD per ha	Total area in ha	Total MD	Rate per MD	Amount (in ₹)
01	31	0.6	18.6	355.30	6,608.58/-
5% Contingency					330.42/-
Total Amount ₹....					6,939/-


RFO (NR)


ACF (HQ)


DCF (T)

-: ABSTRACT SHEET OF ESTIMATE :-

Name of Work :- Providing Chainlink Fencing to Protect the New Plantation (Forest & Wildlife Area) at Various place in U. T. of Dadra Nagar Haveli, Forest Department.

Sr. No.	Description of Items	Total Qty.	Unit	Rate	Rate with 1 % labour cess	Amount	Reference GSOR 2021-22 (Vaisad District)
1	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead in dense or hard soil.	50.00	One Cubic Meter	156.00	157.5600	7878.00	Page.No.51, Sr.No. 1, code 04B001B
2	Providing material and labour for fixing G.I. chainlink fencing (Size:150mm x 150mm x 8 gauge 4mm) 1.50 Meter height to be fixed with R.C.C. Poles (100mm x 100mm) & 2.00 Meter height with supporting poles wherever necessary as per site condition, using P.C. Wire 3mm dia vertical bars 04 Nos. including making fixing holes of 1mm dia 6 Nos. and pole should be casted of C: C: M-20 mix, provided at 2.50 meter c/c distance including with priming coat & oil painting (two coat) in desired colour to RCC poles only fixing of G.I. 'J' hook hot drip (15cm/6"long) 6mm dia with nut and 06 Nos. of G.I. Washers with every " J " Hook. 6 Nos. in each pole etc. complete (Poles,chainlink, 'J' Hooks, G.I. Washers should be of good & approved quality) & test report for RCC poles & G.I. chainlink work to be provided at the time of execution of work , as directed (Extra cross RCC poles to be fixed at corner of area as directed.	1500.00	One Square Meter	453.77	458.3077	687461.55	Rate Analysis
CERTIFICATE :- This is to certify that the rate adopted in the estimates are as per GSR-Vaisad, Year (2021-22) and rate analysis.					Total..RS.....	695339.55	
Cost for 1 Hect=Ar.400Rmt x 730.10 = 292040/-					Add 5% Cont.	34766.97	
					Say Rs.	730106.52	
					Total Rs.	730107.00	

Junior Engineer(FD)

ACF(HQ)

Deputy Conservator of Forests (T)
Dadra & Nagar Haveli
Silvassa.

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RATE ANALYSIS**As Per GSR Valsad (2021-22)**

NAME OF Providing Chainlink Fencing to Protect the New Plantation (Forest & Wildlife Area) at Various place in
 WORK:- U.T. of Dadra Nagar Haveli, Forest Department.
 Item No. Providing material & labour for fixing G.I. Chainlink fencing including material & labour with chainlink of size
 Details of Cost :- For 30.00 x 2.00 = 60.00 Sq.m

Sr.No.	Item	Qty.	Rate	Unit	Amount
1	Supply of G.I. Chainlink (150mm x 150mm x 8 Gauge). 1 x 30.00 x 2.00 = 60.00 Sq.mt. (M. R.)	60.00	138.00	Sq.mt.	8280.00
2	Supply of R.C.C. Poles Having c/s 0.10 x 0.10m & 2.00Meter long of C.C. mix M-20 qty. = 15 x 2.00 x 0.10 x 0.10 = 0.30 cm (DSR Page No. 226, code No. 16.15.1)	0.30	28603.00	Cu.Mtr.	8580.90
3	Supply of 'J' Hook (6") with G.I. Washer 13 x 06.00 = 78.00 Nos (GSR Page No. 7, Sr.No.266, code No. M226)	78.000	8.80	Each	686.40
4	Carriage of Steel Chainlink (15km)	0.141	579.12	M.T.	81.66
	(a) Chainlink 1x45.00 x2.25kg/sq.m = 135.00 kg. (b) 'J' Hook = 06.00 kg. Total = 141.00 kg. i.e. 0.141 M.T. Consider lead = 100 km 1st 5.00 km = 179.17km Rem 95 km x 4.21 399.95 Total = 579.12 (SR.No.15,code 3.2.7, Sr. No. 05)				
5	Carriage of R.C.C. Poles 13 Nos x 0.10 x 0.10 x 2.00 = 0.26 Cu.m. Weight of PCC = 24 KN/Cu.mt i. e. 2400 Kg./ Cu.mt 0.26 Cu.mt. x 2400Kg/Cu.mt = 624 kg i.e. 0.624 Mt Consider lead = 50 km 1st 5.00 km = 210.41km Rem. 45 km x 4.57 205.65 Total = 416.06 (DSR Pg.No.39, It. No.3.2.6)	0.624	416.06	M.T.	259.62
6	Labour charges for fixing of G.I. Chainlink with R.C.C. Pole including fixing of 'J' Hook etc. complete at site of work.				
	(i) Black smith 1 st class	02 Nos	365.20/No.		730.40
	(ii) Mistry (Welder)	02 Nos	365.20/No		730.40
	(iii) Fitter	01 Nos	365.20/No		365.20
	(iv) Hole driller	01 Nos	348.20/day		348.20
	(v) Labour	04 Nos	348.20/No		1392.80
7	Painting on RCC poles				
	(i) Priming coat on surface 15 x 4 x 2.00 x 0.50 60.00 Sq.mt (GSR Page No. 119, Sr no. 11, code No. 19009C)	60.00	26.46	Sq.mt.	1587.60
	(ii) Painting (two cost) on surface (GSR Page No. 119, Sr. no. 17, code No. 19014)	60.00	69.82	Sq.mt.	4189.20
	Cost for 60.00 Sq.mt			Total	27226.38
	Cost for all sq.mt = Rs.27226.38/60.00				453.77
				Say Total....Rs....	453.77/-
				SayRs....	453.77/-
					Sq.mt.



JE(FD)



RFO(NR)



ACF(T)



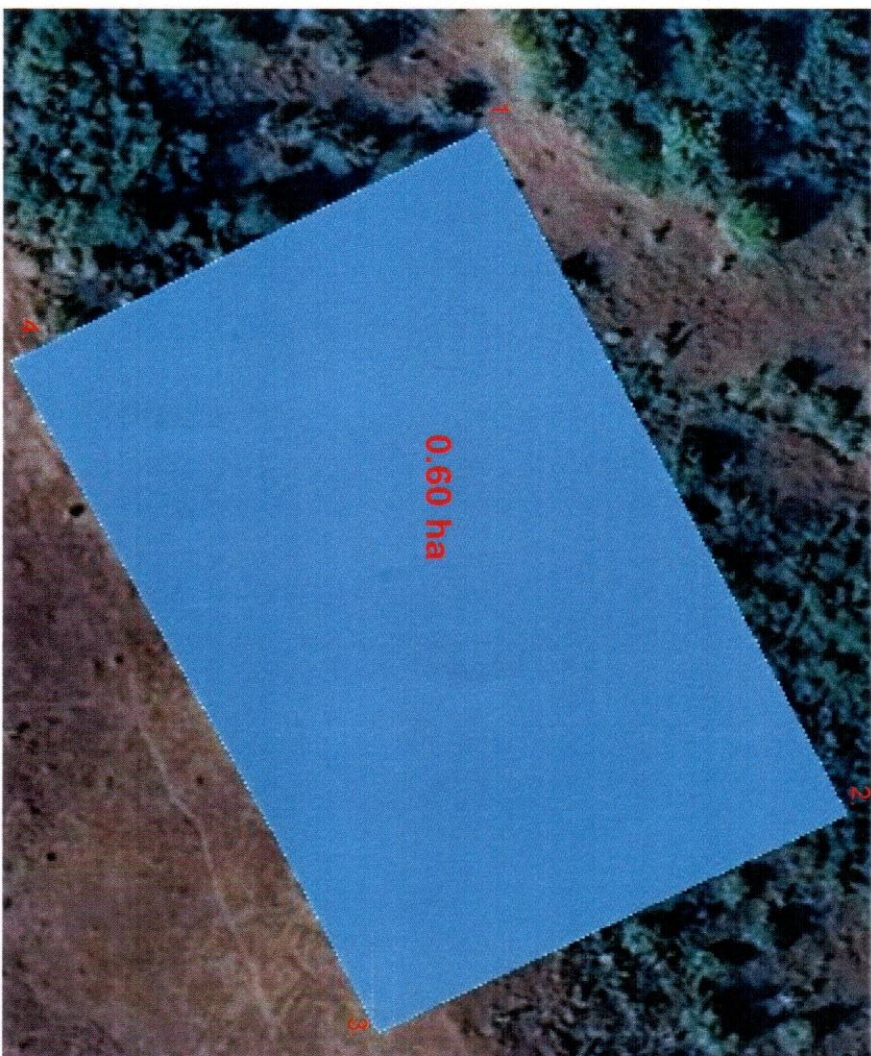
DCF(T)

DGPS Map of Forest Land Proposed Compensatory Afforestation.

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1:795



LOCATION : Dadra & Nagar Haveli

VILLAGE : Nana Randha

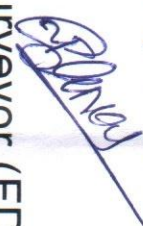
S.NO : 8

AREA : 0.60 ha.

GPS Reading :

1. 20°18'29.29"N 73° 9'45.31"E
2. 20°18'30.93"N 73° 9'48.04"E
3. 20°18'29.10"N 73° 9'49.10"E
4. 20°18'27.48"N 73° 9'46.45"E

Prepared By


Surveyor (FD)

Verified By


RFO (NR)

Countersigned By


ACF (HQ)

Geo-Reference Map of Forest Land Proposed Compensatory Afforestation.

C/Sr



1:579



0.60 HA

GPS Reading :

1. 20°18'29.29"N 73° 9'45.31"E
2. 20°18'30.93"N 73° 9'48.04"E
3. 20°18'29.10"N 73° 9'49.10"E
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Surveyor (FD)

RFO (NR)

