कार्यालय प्रधान मुख्य वन संरक्षक, (हॉफ), राजस्थान, जयपुर क्रमांक एफ ३(१३)प्रमुवसं / ट्री / तक० / 23-24 / 189 - 905 दिनांक: - 02 . 05. 2025 निमित्त,

- 1-परियोजना निदेशक, आर.एफ.बी.पी. जयपुर।
- 2-परियोजना निदेशक, आर.एफ.बी.डी.पी. जयपुर।
- 3— समस्त सम्भागीय मुख्य वन संरक्षक जयपुर/अजमेर/भरतपुर/कोटा/ उदयपुर/बीकानेर/जोधपुर/(वन्यजीव) जयपुर/कोटा/उदयपुर/ सवाईमाधोपुर/सरिस्का/जोधपुर/विभागीय कार्य जयपुर

विषय:--नवीन मॉडल कॉस्ट नोर्म्स न्यूनतम श्रमिक दर रू. 285 / एवं सामग्री दर 2024

महोदय,

उपरोक्त विषयान्तर्गत निवेदन है कि श्रमिक दर 285 / रूपये प्रति दिन के आधार पर प्राप्त हुए वृक्षारोपण मॉडल राज्य स्तरीय मॉडल कमेटी की अनुशंषा पर प्रधान मुख्य वन संरक्षक, (हॉफ) राजस्थान, जयपुर के अनुमोदन उपरान्त संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित किये जा रहे हैं:—

- (A) Model Cost Norms For Grassland Development-5 Ha
- (B) Model Cost Norms For Plantation Along NHAI Sites (Barbed Wire Fencing Model)
- (C) Model Cost Norms For Plantation of NHAI Sites (TREE GUARD MODEL)

उक्त सभी मॉडल विभागीय वेबसाइट के निम्न लिंक पर उपलब्ध है।

http;//www.forest.rajasthan.gov.in/content/raj/forest/en/forest,-department/departmental-wings/forest-development/model-for-developmental activities.htm|

संलग्न-मॉडल की प्रति।

भवदीय

(एस.आर.वी.मूर्थी) मुख्य वन संरक्षक (आयोजना) राजस्थान, जयपुर।

कार्यालय प्रधान मुख्य वन संरक्षक, (हॉफ), राजस्थान, जयपुर

क्रमांक:एफ 3(13)प्रमुवसं / ट्री / तक0 / 25-26 /

दिनांक:-

बैठक कार्यवाही विवरण

इस कार्यालय के समसंख्यक पत्रांक एफ 3(13) प्रमुवसं/ट्री/तक0/ 2023-24 राजकाज रेफ. नं. 14669643 दिनांक 08-04-2025 के द्वारा वृक्षारोपण के मॉडल्स में Grassland Development – 5ha एवं NHAI-Tree Guard Model & Barbed Wire Fencing मॉडल्स के अनुमोदन हेत् मॉडल कमेटी की बैठक दिनांक 21-04-2025 को 11:00 बजे Hybrid Mode के माध्यम से अरण्य भवन के मीटिंग हॉल (A-115) में सुश्री टी. जे. कविथा, अतिरिक्त प्रधान मुख्य वन संरक्षक, (विकास) राजस्थान जयपुर की अध्यक्षता में आयोजित की गई, जिसमें निम्न सदस्यों ने भाग लिया:-

- 1. श्री पी. काथिरवेल, मुख्य वन संरक्षक, भरतपुर- सदस्य (V.C.)
- 2. श्री हनुमाना राम, मुख्य वन संरक्षक, बीकानेर -सदस्य (V.C.)
- 3. श्रीमती ख्याति माथुर, मुख्य वन संरक्षक, अजमेर सदस्य (V.C.)
- 4. श्री आर.के. जैन, मुख्य वन संरक्षक, जोधपुर- सदस्य (V.C.)
- 5. श्री सुनील, वन संरक्षक उदयपुर,- सदस्य- सदस्य (V.C.)
- 6. श्री एस. आर. यादव, मुख्य वन संरक्षक, वन्यजीव उदयपुर, (V.C.)
- 7. श्रीमती सोनल जोरिहार, मुख्य वन संरक्षक, कोटा- सदस्य (V.C.)
- 8. श्री रेखा राम, उप वन संरक्षक (प्रशासन), प्रमुवसं (ट्री), जयपुर
- 9. श्री सुशील कुमार सैनी, उप वन संरक्षक, आयोजना, जयपुर
- 10. श्री जगदीश गुप्ता, उप वन संरक्षक, CWL, जयपर राजस्थान।
- 11. श्री आर.पी.गुप्ता, सलाहाकार, NHAI जयपुर राजस्थान।

श्री एस.आर.वी. मूर्थि, मुख्य वन संरक्षक (आयोजना) राजस्थान, जयपुर ने उपस्थित समिति सदस्यों का स्वागत किया तथा सदस्यगणों से प्रस्तावित मॉडल्स में प्रावधानों पर चर्चा की।

Grassland Development -5 ha के मॉडल पर बैठक में बिन्दुवार एवं विस्तृत चर्चा की जिसमें संभागीय मुख्य वन सरंक्षक वन्यजीव, उदयपुर एवं उप वन संरक्षक, उदयपुर उत्तर ने Ploughing V-ditch, Watering, The Removal of invasive Species, Watch&Ward पर अपने सुझाव दिये इनके द्वारा दिये डिए किए किए किए किए किए हिए उक्त मॉडल को समिति द्वारा अनुमोदित किया गया।

Digitally signed by S R V nkateswara

Designation : Chief Conservator Of

Date: 2025.05.01 3:07:33 IST

Reason: Approved

2. NHAI द्वारा NHAI-Tree Guard & Barbed Wire Fencing- @285 के मॉडल प्रस्तुत किये गये इन मॉडल के बारे में श्री आर.पी.गुप्ता, सलाहाकार NHAI जयपुर ने समिति को बिन्दुवार अवगत करवाया, जिसमें समिति द्वारा सभी वर्षों के विविध व्यय में replacement of plants in accidental cases के प्रावधान शामिल करते हुए उक्त दोनों मॉडल्स को अनुमोदित किया गया।

तत्पश्चात बैठक सधन्यवाद समाप्त हुई।

सदस्य सचिव, मॉडल अनुमोदन समिति मुख्य वन संरक्षक (आयोजना), राजस्थान, जयपुर।

क्रमांकः-एफ3 (13)प्रमुवसं / ट्री / तक0 / 21-22 / प्रतिलिपि निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

दिनांक:-

- 1-निजी सचिव, प्रधान मुख्य वन संरक्षक (हॉफ), राजस्थान जयपुर
- 2— निजी सचिव, प्रधान मुख्य वन संरक्षक (विकास), राजस्थान, जयपुर
- 3-निजी सचिव, प्रधान मुख्य वन संरक्षक एवं वन्यजीव प्रतिपालक, राजस्थान जयपुर
- 4-परियोजना निदेशक, RFBP, राजस्थान, जयपुर
- 5-परियोजना निदेशक, RFBDP, राजस्थान, जयपुर
- 6-वित्तीय सलाहकार, वन विभाग, राजस्थान, जयपुर
- 7-संबंधित मुख्य वन संरक्षक / सदस्य गण.....

सदस्य सचिव, मॉडल अनुमोदन समिति मुख्य वन संरक्षक (आयोजना), राजस्थान, जयपुर

Signature valid

Digitally signed by S R V nkateswara Murthy
Designation: Chief Conservator Of Forest

Date: 2025.05.01 3:07:33 IST

Reason: Approved

- 1

Model Cost Norms Grassland Development

labour rate -

285 per day 5 Hac

unit -Perimeter -

240 m / Hac

YEAR - 0 Advance Action

S.No.	Item of works	Unit	Qty.	Rate	Labour Cost	Material Cost	Total Cost
1	Survey of area layout of contour V-Ditch and making of segment/ plot	Prorate			521.75	53.54	575.29
2	Making pillars from wood/Iron/Stone [3 m long] including transportation to the construction site	Prorate	80	450	0	36000	36000
3	45 cm*45 cms pits digging and pillars fixing every 3 mtr (4 pillar/per person/per day) (400 Pillar/4 per person)	M. days	20	285	5700	0	5700
4	Stretching and pulling the chain link fencing and tieing it with GI wire on the pillars (5 pillar per person per day)	M. days	16	285	4560	0	4560
5	Purchase of chain-link (size 75 mm *75 mm made of G.I. wire of dia 3.15MM Height 2.5 m 240 m / Hac)	Prorate	240	0	0	113280	113280
6	Digging of 50 rmt V-ditch with cross section size $1.2*[[0.30 + 0.0]*]2$ sqmt	Rmt	50	26.98	1349.08	0	1349.08
7	Removal of invasive species [Lantana camera, Prosopis juloflora etc] (40 percent infestation)	Нас	0.4	35999.42	14399.77	7 .	14399.768
8	Restoration of natural regeneration by silviculture operations	Prorate			324.62	. 0	324.62
9	Collection /purchases of grass seeds of local indigenous species	Prorate			3300	2000	5300
10	2 Ploughing operation with plough by tractor [at market rate]	Hrs	24	900	0	21600	21600
11	Ploughing by cultivator [1 time]	Hrs	12	900		10000	10000
12	Purchase of tools, plant and insecticide	Prorate	1	600	0	10800	10800
13	Labour amenities	Prorate	1	500	500	600	600
14	Watch and ward 4 month	Prorate	1	5928	5928	0	500
15	Miscellaneous and unforeseen expenses including running of vehicle	Prorate		3320	100	396.87	5928 496.87
	TOTAL		DECEMBER 1		36683.218	184730.41	221413.628

YEAR - 1 PLANTATION YEAR

S.No.	Item of works	Unit	Qty.	Rate	Labour Cost	Material Cost	Total Cost
1	In continuation and subsequent removal of invasive species [Lantana camera, Prosopis juliflora etc] (50 percent of previous year)	Hac.	0.2	35999.42	7199.884	0	7100.004
2	Preparation of Grass slips in root trainer including cost of root trainer	Prorate	100	33333.42	400	2000	7199.884
3	Planting of grass slips on V-Ditch prepared in Root trainer [space .50 mtr transportation included]	Prorate	100	3.35	335	0	2400
4	Grass seeds sowing twice plough with tractor in natural layer	Prorate		0	Des Fernis		
5	Sowing of Grass seeds in V-ditch	Prorate	-	0	110.04 515.71	422.24	532.28
6	Sowing of grass seeds after making notches 20*20*15 cms	Prorate	100	2.2	220.08	0	515.71
7	Making of seed ball and dispersal of seed balls	Prorate	4000	0.79802	3192.08	0	220.08
8	Weeding [three time] (25 man-days / hectare)	Prorate	75	285	21375	0	3192.08
9	Collection /purchases of grass seeds of local indigenous species	Prorate		-	550.2	110.04	21375
10	Watch and ward charges for 12 month	Prorate		-		110.04	660.24
11	Construction of gate and fixing of sign board	Prorate			17784	0	17784
12	Miscellaneous and unforeseen expenses including running of vehicle	Prorate			484.05 275.96	76.53	560.58
	TOTAL				52442.004	2846.65	513.8 55288.654

उ.व.सं. (प्रशासन) प्रमुवसं (दी) राज. जयपुर (एस.आर.वी. मूर्थी) मु.व.सं. (आयोजना) राजस्थान, जयवुर

YEAR 2 - MAINTENANCE - I

S.No.	Item of works	Unit	Qty.	Rate	Labour Cost	Material Cost	Total Cost
1	In continuation and subsequent removal of invasive species [Lantana camera, Prosopis juliflora etc] (50 percent of 0 year)	Hac.	0.2	35999.42	7199.884		98
2	Collection /purchases of grass seeds of local indigenous species	Prorate	Balli	33333.42		0	7199.88
3	Preparation of Grass slips in root trainer including cost of root trainer	Prorate	100	1	220.08	110.04	330.12
4	Planting of grass slips on V-Ditch prepared in Root trainer [space .50 mtr transportation included]	Prorate	100		400	2000	2400
5	Sowing of grass seeds after making notches 20*20*15cms	Prorate	50	3.35	335	0	335
6	Sowing of Grass speds on V Ditch	Prorate	50	2.2	110	0	110
7	Weeding [Three time]	Prorate	75	-	440.16	0	440.16
8	IR & M of vehicle		75	285	21375		21375
		Prorate			0	403.85	403.85
9	Expenditure on maintenance including [repair of fencing]	Deserte					
10	Watch and ward charges for 12 month	Prorate			519.61	141.17	660.78
	Miscellaneous expenditure [Labour, instruments, machine etc.]	Prorate			1780.88	0	1780.88
	TOTAL	Prorate	lk		248.73	114.9	363.63
					32629.344	2769.96	35399.304

Year wise Cost Statement Development Per hectare

S.No.	Item of works						
	item of works	Unit	Qty.	Rate	Labour Cost	Material	Total Cost
1	YEAR - 0 Advance Action					Cost	
	YEAR - 1 Plantation year				36683.218	184730.41	221413.62
	YEAR 2 - Maintenance - I				52442.004	2846.65	55288.654
	Grand Total				32629.344	2769.96	35399.304
					121754.566	190347.02	312101.586

माडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्-दर्शक है। कार्यस्थल पर कार्य सम्पादित कराने हेतु कार्य स्थान की विशेषताओध्परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जाये।

उ.व.सं. (प्रशासन) प्रमुवसं (द्री)

राज. जयपर

(एस.आर्ची. मूर्थी) मु.व.सं. (आयोजना) राजस्थान, जयपुर

MODEL COST ESTIMATE FOR PLANTION ALONG NHAI ROADS (BARBED WIRE FENCING MOUDLE)

Labour Rate @285/- per day

For Sites having more than 50% length withTwo or more Rows

	100	Length in K	M		No. of Plants in	LHS			No. of Pla	ints in LHS		
Particular	LHS	RHS	Total	1st Row	Intermediate Rows	Last Row	Total	1st Row	Intermidiate Rows	Last Row	Total	Total Plants
2 row planting with Barbed	7	7	14	2333	1167	0	3500	2333	1167		2500	
3 or more row planting with	2	2	4	667	333	167	1167				3500	7000
1 row planting with Tree	1	1	2	167				667	333	167	1167	2334
Land Parcel		-	2	16/	0	0	167	167	0	0	167	334
Total			0			1.0	0				0	0
	10	10	20	3167	1500	167	4834	3167	1500	167	4834	9668
Existing Trees in Tree Guard		8 7 50					0		000000000000000000000000000000000000000		0	
Existing Trees in Barbed Wire		departs.	way in colline is				100				A CONTRACTOR STREET	0
Net	同 选定数 \						100				50	150
Planting						e sanciani	100					
Target		35 × 5 × 5					4734				4784	9518
ength of Fencing in Mts	18180	18180	36360	100 K (100 K)			y seve		0.000	2011 200 100 100 100		Maria California
No. of Tree Guards	167	167	334	5.00					Mark the section would be			

1st Row	Plant to Plant distance 3 Mts	333 plants/KM	Small to Medium height ornamental Trees like Kachnar, Amaltas, Jakranda, Peltoform,
2nd & Intermidiate Rows	Plant to Plant distance 6 Mts	167 plants/KM/Row	Tabebuia spp, etc. Shady & Fruit Bearing Trees like Neem, Shisham, Arjun, Siris, Jamun, Bakain, Mango, Paras Pipal etc.
3rd/Last Row	Plant to Plant distance 12 Mts	83 plants/KM	Large size Shady Trees like Baniyan, Pipal, Gular, Imali. Pilkhan etc.
Single Row with Tree Guards	Plant to Plant distance 6 Mts	167 plants/KM	Shady & Fruit Bearing Trees like Neem, Shisham, Arjun, Siris, Jamun, Bakain, Mango, Paras
Distance between 2 Rows	3 Mts		Pipal etc.
abour Rate	Rs. 285/day		THE WASHINGTON THE TAXABLE TO SEE THE SECOND

ज.व.स. (प्रशासन) प्रमुवसं (ट्री) राज. जयपुर (एस.आर.वी. मूर्थी) मु.व.सं. (आयोजना) राजस्थान, जयपुर

	YEAR 1: ADVANCE AC	TION & PLANT	ING	and the second second	e Paralle	The State of the S		
S.N	ITEM OF WORK	Unit	Onty.	R	ate	F1.1369411111	Amount	-
1	2			Labour	Material	Labour	Material	Total
1	Collection of data for preparation of DPR, micro planning and Management plan and Surveys of area etc.	3	4	5	6	7	8	9
2		KM	20	63.34	159.69	1266.8	3193.8	4460
- 2	Tree Guard Fencing with 4 RCC pannels of 45 cm width and 1.8 Mt height each, including cost of material, transportation, fixing etc.	No.	334	253.33	1490.44	84612.22	497806.96	582419.
3	Fencing with RCC Post of size 2.10 m x(0.10+0.15) x1/2 x 0.10 (5 m apart) with 5 strand barbed wire of 12 gauge with 2 cross wire or 3 strand barbed wire of 12 gauge supported with 5 feet high weldmess of 4" *4" including cost of material, fixing, etc.	RMT	36360	54.47	223.57	1980529	8129005	1010953
4	Purchase of tools & equipment.	KM				- F/2/24		
5	Sign board including painting and fixing.		20	0	372.61	0	7452	745
6	Watch &Ward for 9 months: one watch man for every 4 km.each side	KM	20	63.34	479.07	1267	9581	1084
7	Labour Amenities.	Man Months	45	7410	0	333450	0	33345
8	Site clearance including removal of unwanted bushes, leveling of the site wherever required.	KM	20	31.67	79.85	633	1597	223
9	Construction of temporary cattle guard hut for watch and Ward. One at 10 kilometers.	KM	20	380	745.22	7600	14904	2250
10	Digging of pits of Size 0.60 x 0.60 x 0.60 m including lay out, marking, dressing, etc.	KM	20	316.67	532.3	6333	10646	1697
1- 1-	Planting in pit size 0.60 x 0.60 x 0.60 m including local transportation of plants at site, submerging the polypots in insecticide treated water, cutting and	No.	9518	44.33	0	421933	0	42193
	removing the polymene dag, remaining the pit after removing stones and pressing the soil around plant including construction of thanwla and initial watering	No.	9518	0	0	0	0	42133
12	(A) 20 x 40 cm bag	No.	7614					
13	(B) 30 x 40 cm bag		7614	30.1	0	229181	0	22918
14	Weeding and hoeing of plants after planting and in rains (2 times)	No.	1904	38.33	0	72980	0	7298
(Section 1)	Procurement of Plants for 3rd/last row with 2 mts or more height with good health and growth in 30x40 cm Poly bags with 20% Extra for plants	No.	19036	4.42	0	84139	0	8413
	required for casulty replacement including transportation.	No.	2285	12.67	95.81	28951	218926	24787
16	Procurement of Plants with 1.5 mts or more height with good health and growth in 20x40 cm Poly bags, with 20% Extra for plants required for casulty replacement including transportation.	No.	9137	12.67	42.58	115766	389053	50481
17	Adding the farm yard manure/vermi compost/DAP/insecticide etc to each pit including cost of material	No.	9518	2.53	0.50			
18	Irrigation (watering) of plants (watering will be as per the weather conditions) by tractor tanker, total 10 watering.	No.	95180	3.8	8.52	24081	81093	10517
	Hoeing of plants after each watering	No.	95180	3.15	5.63	361684	535863	89754
20	Singling, pruning and other silvicultural operatipons for the existing trees/plants	No.	150	50.66	0	299817	0	29981
21	Consolidation of JFM and participatory programs.	KM	20	50.66	0	- 7599	0	7599
22	Miscellaneous and unforeseen works and Expenditures. (Cleaning of unwanted bushes at site, repair of fencing and replacement of plants in accidental		20	0	532.3	0	10646	1064
	cases, maintainance of vehicles and vehicle on rent for inspection & monitoring) TOTAL YEAR-1	KM	20	3800.01	9581.4	76000	191628	267628
						4137823	10101397	14239220

उ.व.सं. (प्रशासन) प्रमुवसं (ट्री) राज. जयपुर (एस.आएसी मूर्थी) मु.य.सं. (आयोजना) राजस्थान, जयपुर

-3

S.N	ITEM OF WORK	Unit	Onty.	R	ate		Amount	
1		44.00	Qy.	Labour	Material	Labour	Material	Total
	Planting for casualty replacement including redicates and traces.	3	. 4	5	6	7		Total
1	Planting for casualty replacement including redigging and treatment of pit and plant with insecticides, local transport, making crescent shape Thanwla and watering with cost of water and transport	Nos.	952	49.43	0	47057	0	4705
2	Irrigation (watering) of plants from April. to March 12 months (watering will be as per the weather conditions) by tractor tanker, total 16 watering	No.	152288	3.8	5.63	578694	857381	
3	Weeding and hoeing of plants after planting and in rains 2 times	No.	1000 (- CONTRACTOR - 1	837381	1436076
4	Hoeing of plants after each watering		19036	4.42	0	84139	0	84139
5	Treatment with insecticide and fertilizer including cost of material	No.	152288	3.15	0	479707	0	47970
6	Fencing repair as per requirement	No.	9518	0.64	1.6	6092	15229	21320
7	Pruning of Plants	KM	20	506.66	106.46	10133	2129	12262
8	Singling, pruning and other silvicultural operatipons for the existing trees/plants	No.	1904	2.54	0	4836	0	4836
9	Watch &Ward for 12 months: One watch man for every 4 km, each side.	No.	150	50.66	0	7599	0	7599
10	Labour amenities	Man Months	60	7410	0	444600	0	444600
11	Consolidation of JFM and participatory programs.	KM	20	31.67	79.85	633	1597	2230
-		KM	20	0	266.15	0	5323	5323
12	Miscellaneous and unforeseen works and Expenditures. (Cleaning of unwanted bushes at site, repair of fencing and replacement of plants in accidental cases, maintantainance of vehicles and vehicle on rent for inspection & monitoring)	KM	20	633.34	1596.9	12667	31938	44605
	TOTAL YEAR- 2					1676158	913597	2589756

of the second	YEAR-3 : MAIN	TENANCE		an inches		215,57		
S.N	ITEM OF WORK	Unit	Quty.	7	Rate		Amount	
1	2		ÇÇ.	Labour	Material	Labour	Material	Total
PS-II-	-	3	4	5	6	7	8	0
1	Irrigation (watering) of plants from April. to March 12 months (watering will be as per the weather conditions) by tractor tankar, total 12 watering	No.	114216	3.8	5.63	434021	643036	1077057
3	Weeding and hoeing of plants after planting and in rains Hoeing of plants after each watering	No.	9518	4.42	0	42070		
4	Treatment with insecticide and fertilizer including cost of material	No.	114216	3.15	0	359780	0	42070 359780
5	Fencing repair as per requirement	No.	9518	2.53	0	24081	0	24081
6	Pruning of Plants	KM	20	1266.67	0	- 25333	0	25333
7	Watch &Ward for 12 months: One watch man for every 4 km each side.	No.	2855	2.54	0	7252	0	7252
8	Labour amenities	Man Months	60	7410	0	444600	0	444600
9	Consolidation of JFM and participatory programs.	KM	20.0	31.67	79.85	633	1597	2230
		KM	20	0	266.15	0	5323	5323
10	Miscellaneous and unforeseen works and Expenditures. (Cleaning of unwanted bushes at site, repair of fencing and replacement of plants in accidental cases, maintantainance of vehicles and vehicle on rent for inspection & monitoring)	КМ	20	506.66	1277.52	10133	25550	35684
	TOTAL YEAR-3					10133	25550	35684
-, 3						1347903	675506	2023409

ख.ब.सं. (प्रशासन) प्रमुवसं (द्री) राज. जयपुर (एस.आर.म. मूर्थी) मु.व.सं. (आयोजना) राजस्थान, जयपुर

	YEAR-4: MAIN	ΓENANCE		10 E	9.00	The state of the state of		30
S.N	ITEM OF WORK	Unit	Qnty.	R	late		Amount	
	and the second s		Qy.	Labour	Material	Labour	Material	Total
1	2	3	4	5	6	7	- 8	9
1	Irrigation (watering) of plants from April. to March 12 months (watering will be as per the weather conditions) by tractor tankar, total 8 watering	No.	76144	3.8	5.63	289347	428691	71803
	Weeding and hoeing of plants after planting and in rains	No.	9518	4.42		42070		
3	Hoeing of plants after each watering	No.	76144	3.15	0		0	4207
4	Fencing repair as per requirement		76144		0	239854	0	23985
	Pruning of Plants	KM	20	950	0	19000	0	1900
	Watch &Ward for 12 months: One watch man for every 4 km.	No.	3807	2.54	0	9670	0	967
7	Labour amenities	Man Months	60	7410	0	444600	0	44460
1		KM	20	31.67	79.85	633	1597	2230
8	Consolidation of JFM and participatory programs.	KM	20	0	266.15	. 033		
	Miscellaneous and unforeseen works and Expenditures. (Cleaning of unwanted bushes at site, repair of fencing and replacement of plants in accidental	1	20	- 0	200.13	U	5323	5323
9	cases, mainantainance of vehicles and vehicle on rent for inspection & monitoring)	KM	20	380	958.14	7600	19163	2676
10-0, 3	TOTAL YEAR-4							
						1052774	454774	150754

	YEAR-5 : MAINT	ENANCE	600			A CONTRACTOR		Services -
S.N	ITEM OF WORK	Unit	Qnty.	R	ate	t Territoria	Amount	
-,	The state of the s		Qiiig.	Labour	Material	Labour	Material	Total
-	2	3	4	5	6	7	8	9
1	Irrigation (watering) of plants from April. to March 12 months (watering will be as per the weather conditions) by tractor tankar, total 4 watering	No.	38072	3.8	5.63	144674	214345	359019
2	Weeding and hoeing of plants after planting and in rains	No.	9518	4.42		42070		
3	Hoeing of plants after each watering	No.	38072	3.15	0	42070	0	42070
5	Fencing repair as per requirement	KM	38072		0	119927	0	119927
6	Pruning of Plants		20	950	0	19000	0	19000
7	Watch &Ward for 12 months: One watch man for every 4 km.	No.	3807	2.54	-0	9670	0	9670
0	Labour amenities	Man Months	60	7410	0	444600	0	444600
10	Consolidation of JFM and participatory programs.	KM	20.0	31.67	79.85	633	1597	2230
		KM	20.0	0	266.15	0	5323	5323
11	Miscellaneous and unforeseen works and Expenditures. (Cleaning of unwanted bushes at site, repair of fencing and replacement of plants in accidental cases, maintantainance of vehicles and vehicle on rent for inspection & monitoring)	KM	. 20.0	253.33	638.76	5067	12775	17842
3711	TOTAL YEAR-5					785640	22.004	
						/85640	234041	1019680

1 2 Labour Material Total 1 ADVANCE ACTION AND PLANTING 3 4 5 6 2 MAINTENANCE YEAR 1 4,137,823 10,101,397 14,239,22 3 MAINTENANCE YEAR 2 1,676,158 913,597 2,589,75 4 MAINTENANCE YEAR 3 1,347,903 675,506 2,023,40 5 MAINTENANCE YEAR 4 1,052,774 454,774 1,507,54 MAINTENANCE YEAR 5 785,640 234,041 1,019,68 Total cost of 5 years 9,000,298 12,379,315 21,379,611 Note: Cost per Plant Total cost of 5 years Total cost of 5 years 2,244	S.NO.	ITEM OF WORK	YEAR		AMOUNT	
2 MAINTENANCE YEAR 1 4,137,823 10,101,397 14,239,22 3 MAINTENANCE YEAR 2 1,676,818 913,597 2,589,75 4 YEAR 3 1,347,903 675,506 2,023,40 5 MAINTENANCE YEAR 4 1,052,774 454,774 1,507,54 MAINTENANCE YEAR 5 785,640 234,041 1,019,68 Total cost of 5 years 9,000,298 12,379,315 21,379,61. Note: Cost per Plant 2,246	1	2	TEAK	Labour	Material	Total
2 MAINTENANCE YEAR 1 4,137,823 10,101,397 14,239,22 3 MAINTENANCE YEAR 2 1,676,818 913,597 2,589,75 4 YEAR 3 1,347,903 675,506 2,023,40 5 MAINTENANCE YEAR 4 1,052,774 454,774 1,507,54 MAINTENANCE YEAR 5 785,640 234,041 1,019,68 Total cost of 5 years 9,000,298 12,379,315 21,379,61. Note: Cost per Plant 2,246	1	ADVANCE ACTION AND BY ANTING	3	4	5	6
MAINTENANCE YEAR 2 1,676,158 913,597 2,589,75	2		YEAR 1	4,137,823	10,101,397	14.239.220
MAINTENANCE YEAR 3 1,347,903 675,506 2,023,40	2		YEAR 2	1,676,158		
4 MAINTENANCE YEAR 4 1,052,774 454,774 1,507,54	3	MAINTENANCE	YEAR 3	1.347.903		
MAINTENANCE YEAR 5 785,640 234,041 1,019,68	4	MAINTENANCE	VEAR 4			
Total cost of 5 years 9,000,298 12,379,315 21,379,611 Note: 2,246	5	MAINTENANCE				
Note: Cost per Plant 2,240		Total cost of 5 years	TEAKS			
Note: 2,240		Cost ner Plant		9,000,298	12,379,315	21,379,613
Above is the model cost estimation prepared for 10 KM length and different widths taking as a sample only estimated that the sample only estimated the sample only estimated the sample only estimated that the sample only estimated the sample on the sample only estimated the sample only estimated the sample only estimated the sample on the sample of the sample on the sa	Note:	Coorper . Int.	1 5752/653		12.00	2,246
	1	Above is the model cost estimation prepared for 10 KM length and different widths taking as a sample only, actual cost estimation will be prepared as per actual space available for plan				
	3	NHAI will provide information of chainagewise available width for plantation, number of rows, number of existing trees, number of plants to be planted etc Based upon this information is required in the proposal, the same will be approved by the concern CCF.	n, the cost estimation wi	Il be prepared and the sa	ame will be submitted to I	NHAI.

Items and BSR rate are considerd on average basis for the purpose of preparation of DPR. Actual estimate can be prepared as per required items and applicablel BSR at the time of implementation.

ख.व.सं. (प्रशासन) प्रमुवसं (द्री) राज. जयपुर

If any deviation is required in the proposal, the same will be approved by the concern CCF.

MODEL COST ESTIMATE FOR PLANTION OF NHAI SITES (TREE GUARD MOUDLE)

Labour Rate Rs. 285/- Per Day

For Sites having more than 50% length with single Row

	Length in KM			No. of Plants in LHS								
Particular	LHS	RHS	Total	1st Row	Intermediat e Rows	Last Row	Total	1st Row	Intermidi ate Rows	Last Row	Total	Total Plants
2 row planting with Barbed wire fencing	2	2	4	667	333	0	1000	667	333		1000	2000
3 or more row planting with Barbed wire fencing	0	0	0	0	0	0	0	0	0	0	0	0
1 row planting with Tree Guard fencing	8	8	16	1333	0	0	1333	1333	0	0	1333	2666
Land Parcel		in	0			1 87	0			X .	0	0
Total	10	10	20	2000	333	0	2333	2000	333	0	2333	4666
Existing Trees in Tree Guard Section				o i successi			100				50	150
Existing Trees in Barbed WireSection												
Plantin							2233				2283	4516
Length of Fencing in Mts	4040	4040	8080									
No. of Tree Guards	1233	1283	2516	dia dia								

1st Row	Plant to Plant distance 3 Mts	333 plants/KM	Small to Medium height ornamental Trees like Kachnar, Amaltas, Jakranda, Peltoform, Tabebuia spp, etc.				
2nd & Intermidiate Rows	Plant to Plant distance 6 Mts	167 plants/KM/Row	Shady & Fruit Bearing Trees like Neem, Shisham, Arjun, Siris, Jamun, Bakain, Mango, Paras Pipal etc.				
3rd/Last Row	Plant to Plant distance 12 Mts	83 plants/KM	Large size Shady Trees like Baniyan, Pipal, Gular, Imali. Pilkhan etc.				
Single Row with Tree Guards	Plant to Plant distance 6 Mts	167 plants/KM	Shady & Fruit Bearing Trees like Neem, Shisham, Arjun, Siris, Ja Bakain, Mango, Paras Pipal etc.				
Distance between 2 Rows	3 Mts						
Labour Rate Rs. 285/day							

ज.व.सं. (प्रशासन) प्रमुवसं (द्री) राज. जयपुर (एस.आप्र.ची. मूर्थी) मु.व.सं. (आयोजना) राजस्थान, जयपुर



	YEAR 1: ADVANCE AC	TON & PLA	INTING					
S.N	ITEM OF WORK				Rate			
.1		Unit	Quty.	Labour	Material	lab	Amount	
1	2	3	4	5	6	Labour	Material	To
1	Collection of data for preparation of DPR, micro planning and Management plan and Surveys of area etc.	1		1000000	6	7	8	
2	Tree Guard Fencing with 4 RCC pannels of 45 cm width and 1.8 Mt height each, including cost of material,	No.	4516	0.32	0.80	1445.12	3612.80	5
	1 1 ming cic.	No.	2516	253.33	1490.44	637378.28	3749947.04	43
3	Fencing with RCC Post of size 2.10 m x(0.10+0.15) x1/2 x 0.10 (5 m apart) with 5 strand barbed wire of 12 gauge with 2 cross wire or 3 strand barbed wire of 12 gauge supported with 5 feet high weldmess of 4" *4" including cost of material, fixing, etc.	RMT	8080	54.47	223.57	440117.6	1806445.60	224
4	Purchase of tools & equipment	No	1516				1000445.00	22
5	Sign board including painting and fixing.	No.	4516	0	1.06	0	4786.96	4
6	Watch &Ward for 9 months: one watch man for every 4 km.each side	Man	4516	0.25	1.92	1129	8670.72	9
7	Labour Amenities.	Months	23	7410	0.00	166725	0.00	
8		No.	4516	0.32	0.00			16
9	Site clearance including removal of unwanted bushes, leveling of the site wherever required.	No.	4516		0.80	1445.12	3612.80	5
0	Construction of temporary cattle guard hut for watch and Ward. One at 10 kilometers.	No.		0.76	1.49	3432.16	6728.84	10
U	Digging of pits of Size 0.60 x 0.60 x 0.60 m including lay out, marking dressing etc.	No.	4516	0.89	1.38	4019.24	6232.08	10
	Planting in pit size 0.60 x 0.60 x 0.60 m including local transportation of plants at it.	NO.	4516	44.33	0.00	200194.28	0.00	20
2	insecticide treated water, cutting and removing the polythene bag, refilling the pit after removing stones and pressing the soil around plant including construction of thankla and initial watering (A) 20 × 40 cm bag	No.	4516	0	0.00	0	0.00	
3		No.	3613	20.1	0.00			
	(B) 30 x 40 cm bag	No.	903	30.1	0.00	108751.3	0.00	10
+	Weeding and hoeing of plants after planting and in rains (2 times)	No.	9032	1	0.00	34611.99	0.00	34
5	Procurement of Plants for 3rd/last row with 2 mts or more height with good health and growth in 30x40 cm Poly bags with 20% Extra for plants required for casulty cools.	President.	9032	4.42	0.00	39921.44	0.00	39
	Procurement of Plants with 1.5 mts or more height with good health and award in 20 to	No.	1084	12.67	95.81	13734.28	103858.04	117
	for plants required for casulty replacement including transportation. Adding the farm yard manure/vermi compost/DAP/insecticide etc to each pit including cost of material	No.	4336	12.67	42.58	54932.052	184609.85	239
3	tempose Brit miscericide etc to each pit including cost of material	No.	4516	2.53	8.52	11425.48	20476 22	10
,	Irrigation (watering) of plants (watering will be as per the weather conditions) by tractor tanker, total 10 watering.	No.	45160	3.8	5.63		38476.32	49
	Hoeing of plants after each watering.					171608 .	254250.80	425
1	Singling, pruning and other silvicultural operatipons for the existing trees/plants	No.	45160	3.14	0.00	141802.4	0.00	141
(Consolidation of JFM and participatory programs.	No.	150	50.66	0.00	7599	0.00	75
,	Miscellaneous and C	No.	4516	0	1.06	0	4786.96	47
	Miscellaneous and unforeseen works and Expenditures. (Cleaning of unwanted bushes at site, repair of fencing and eplacement of plants in accidental cases, mainantainance of vehicles and vehicle on rent for inspection & monitoring)	No.	4516	10.76	27.15	48592.16	122609.40	171
7	TOTAL YEAR-1					Type of the state of		
						2088864	6298628	8387
Т	YEAR-2: MAINTEN	ANCE						
	ITEM OF WORK			Ra	ite			
	2	Unit	Quty.	Labour	Material	Labour	Amount	
		3	4	5	6	7	Material	Tot
-	lanting for casualty replacement including redigging and treatment of pit and plant with insecticides, local transport, taking crescent shape Thanwla and watering with cost of water and transport	Nos.	452	49.44	0.00	22346.88	0.00	223
	rigation (watering) of plants from April. to March 12 months (watering will be as per the weather conditions) by	No.	72256	3.8	5.63	274572.8	406801.28	6813
LI	deeding and hoeing of plants after planting and in rains 2 times	No.	9032	4.42	0.00			5015
T.	oeing of plants after each watering	No.	72256		0.00	39921.44	0.00	3992
E-	reatment with insecticide and fertilizer including cost of material	No.	9032	3.14	0.00	226883.84	0.00	2268
	encing repair as per requirement	No.		0.64	1.60	5780.48	14451.20	2023
	uning of Plants	No.	9032	5.06	1.06	45701.92	9573.92	5527
Si	ngling, pruning and other silvicultural operatipons for the existing trees/plants		452	2.54	0.00	1148.08	0.00	114
- 1	atch &Ward for 12 months: One watch man for every 4 km, each side.	No.	150	50.66	0.00	7599	0.00	759
-	bour amenities	Man Months	30	7410	0.00	222300	0.00	2223
	onsolidation of JFM and participatory programs.	No.	9032	0.15	0.40	1254.0	2612.65	
100	and participatory programs.	No.	9032	0	0.53	1354.8	3612.80 4786.96	4968
	scellaneous and unforeseen works and Expenditures (Cleaning of unwanted bushes at site, repair of fencing and	INO.	7032	0				4787

-6-

(एस.अ.स.सी. मूथी) मुन्दस (आयोजना) राजस्थान जना

ड.व.स. (प्रशासन) प्रमुवस (दी) राज. जयपुर

855648

456568

1312215

10	YEAR-3: MAINTEN	NANCE	1.5	150	1.275	- 54		1.45	
S.N	ITEM OF WORK		1		Rate		Amount		
		Unit	Quty.	Labour	Material	Labour	Material	Total	
1	2	3	4	5	6	7	8	9	
1	Irrigation (watering) of plants from April. to March 12 months (watering will be as per the weather conditions) by tractor tankar, total 12 watering	No.	54192	3.8	5.63	205929.6	305100.96	511031	
2	Weeding and hoeing of plants after planting and in rains	No.	4516	4.42	0.00	19960.72	0.00	19961	
3	Hoeing of plants after each watering	No.	54192	3.14	0.00	170162.88	0.00	170163	
4	Treatment with insecticide and fertilizer including cost of material	No.	4516	2.53	0.00	11425.48	0.00	11425	
5	Fencing repair as per requirement	No.	54192	2.53	0.00	137105.76	0.00	137106	
6	Pruning of Plants	No.	452	2.54	0.00	1148.08	0.00	1148	
7	Watch &Ward for 12 months: One watch man for every 4 km each side.	Ivian	30	7410	0.00	222300			
9	Labour amenities	Months					0.00	222300	
10	Consolidation of JFM and participatory programs.	No.	54192	0.08	0.20	4335.36	10838.40	15174	
		No.	54192	0	0.53	0	28721.76	28722	
11	Miscellaneous and unforeseen works and Expenditures. (Cleaning of unwanted bushes at site, repair of fencing and replacement of plants in accidental cases, maintanance of vehicles and vehicle on rent for inspection & monitoring)	No.	54192	1.27	3.19	68823.84	172872.48	241696	
	TOTAL YEAR-3		127		Jan Ed	841192	517534	135872	
			THE REAL PROPERTY.			041172	317334	133072	
	YEAR-4: MAINTEN	ANCE			Est.	2.554			
SN	. ITEM OF WORK			1	Rate		Amount		
	HEW OF WORK	Unit	Qnty.	Labour	Material	Labour	Material	Total	
1	2	3	4	5	6	7	8	9	
1	Irrigation (watering) of plants from April to March 12 months (watering will be as per the weather conditions) by tractor tankar, total 8 watering	No.	36128	3.8	5.63	137286.4	203400.64	340687	
2	Weeding and hoeing of plants after planting and in rains	No.	4516	4.42	0.00	19960.72	0.00	10061	
3	Hoeing of plants after each watering	No.	36128	3.14	0.00	113441.92		19961	
5	Fencing repair as per requirement	No.	4516	2.53	0.00		0.00	113442	
6	Pruning of Plants	No.	452	2.53		11425.48	0.00	11425	
7	Watch &Ward for 12 months: One watch man for every 4 km.	Man	30	7410	0.00	1148.08	0.00	1148	
9	Labour amenities	No.	4516	0.08	0.00	222300	0.00	222300	
10	Consolidation of JFM and participatory programs.	No.	4516	100000000000000000000000000000000000000	0.20	361.28	903.20	1264	
11	Miscellaneous and unforeseen works and Expenditures. (Cleaning of unwanted bushes at site, repair of fencing and replacement of plants in accidental cases, maintanance of vehicles and vehicle on rent for inspection & monitoring)	No.	4516	0.76	2.02	3432.16	2393.48 9122.32	2393 12554	
	TOTAL YEAR-4					200224			
		1000				509356	215820	725176	
	YEAR-5: MAINTEN	ANCE				100000000000000000000000000000000000000			
S.N				R	ate	Profession (Amount		
3.18	ITEM OF WORK	Unit	Quty.	Labour	Material	Labour	Material	Total	
1	2	3	4	5	6	7	8	9	
1	Irrigation (watering) of plants from April to March 12 months (watering will be as per 'the weather conditions) by tractor tankar, total 4 watering	No.	18064	3.8	5.63	68643.2	101700.32	170344	
2	Weeding and hoeing of plants after planting and in rains	No.	4516	4.42	0.00	19960.72	0.00	10061	
3	Hoeing of plants after each watering	No.	18064	3.14	0.00	56720.96	0.00	19961	
5	Fencing repair as per requirement	No.	4516	1.9	0.00	8580.4		56721	
	Pruning of Plants	No.	452	2.54	0.00	1148.08	0.00	8580	
7	Watch &Ward for 12 months: One watch man for every 4 km.	Man	30	7410	0.00	222300	0.00	1148	
9	Labour amenities	No.	4516	0.08	0.00		0.00	222300	
10	Consolidation of JFM and participatory programs.	No.	4516			361.28	903.20	1264	
		110.	4310	0	0.53	0	2393.48	2393	
11	Miscellaneous and unforeseen works and Expenditures (Cleaning of unwanted bushes at site, repair of fencing and replacement of plants in accidental cases, mainantainance of vehicles and vehicle on rent for inspection & monitoring)	No.	4516	0.64	1.60	2890.24	7225.60	10116	
	TOTAL YEAR- 5	CONTRACTOR OF THE PARTY OF THE	the state of the s	THE RESERVE OF THE PARTY OF THE					





ड.स.स. (प्रशासम्) प्रमुवसं (ट्री) राज. जयपुर

	ABSTRACT OF TOTAL COST FOR 5 YEARS		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
s.NO.	ITEM OF WORK	YEAR	AMOUNT			
		TEAR	LABOUR	MATERIAL	TOTAL	
- 1	2	3		4		
1	ADVANCE ACTION AND PLANTING	YEAR 1	2,088,864	6,298,628	8,387,492	
2	MAINTENANCE	YEAR 2	855,648	456,568		
3	MAINTENANCE	YEAR 3	841,192		1,312,215	
4	MAINTENANCE			517,534	1,358,725	
5	MAINTENANCE	YEAR 4	509,356	215,820	725,176	
	Total cost of 5 years	YEAR 5	380,605	112,223	492,827	
			4,675,664	7,600,772	12,276,436	
Note:	Cost per Plant				2,718	
1.	Above is the model cost estimation prepared for 10 KM length and different widths taking as a sample only, actual cost estimation will	be prepared as per actual	space available f	or plantation.		
2	NHAI will provide information of chainagewise available width for plantation, number of rows, number of existing trees, number of plantation and the same will be submitted to NHAI.	nts to be planted etc Base	ed upon this info	rmation, the cost	estimation will	
3	If any deviation is required in the proposal, the same will be approved by the concern CCF.					
4	Items and BSR rate are considerd on average basis for the purpose of preparation of DPR. Actual estimate can be prepared as per require					

उ.व.सं. (प्रशासन) प्रमुवसं (द्री) राजा. जयपुर (एस.आस्वी. मूर्थी) मु.व.सं. (आयोजना) राजस्थान, जयपुर