

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

क्रमांक: एफ 3(13)प्रमुवसं/ट्री/तक0/23-24/ 44

दिनांक: 05.02.2025

बैठक कार्यवाही विवरण

राजस्थान सरकार द्वारा श्रमिक दर रुपये 259/- प्रतिदिन को श्रम विभाग की अधिसूचना संख्या एफ. 8(5)(6) न्यू.म.अभि/श्रम/आई.आर./2000/पार्ट/00212 दिनांक 13.12.2024 द्वारा संशोधित कर 285 रुपये प्रतिदिन की गई हैं। तदनुसार विकास कार्यों के विभिन्न मॉडल्स के श्रम भाग (Labour Component) को 10.03% एवं सामग्री भाग (Material Component) को 6.46% बढ़ाकर संशोधित मॉडल्स तैयार किये गये हैं, जिनके अनुमोदन हेतु प्रधान मुख्य वन संरक्षक (विकास) एवं अध्यक्ष मॉडल अनुमोदन समिति की अध्यक्षता में बैठक दिनांक 31.01.2025 को 03:00 PM बजे Hybrid Mode से अरण्य भवन के मीटिंग हॉल में आयोजित की गयी।

, जिसमें निम्न सदस्यों ने भाग लिया:-

1. श्री राजीव चतुर्वेदी, मुख्य वन संरक्षक, जयपुर – सदस्य (V.C.)
2. श्री पी. काथिरवेल, मुख्य वन संरक्षक, भरतपुर – सदस्य (V.C.)
3. श्री एस.पी. सिंह, मुख्य वन संरक्षक, अजमेर – सदस्य (V.C.)
4. श्री एस.आर. यादव, मुख्य वन संरक्षक (आयोजना), राजस्थान, जयपुर – सदस्य सचिव
5. श्री आर. के. जैन, मुख्य वन संरक्षक, जोधपुर – सदस्य (V.C.)
6. श्री आर. के. जैन, मुख्य वन संरक्षक, बीकानेर – सदस्य (V.C.)
7. श्री सुनील, वन संरक्षक उदयपुर, – सदस्य (V.C.)
8. श्रीमती निधि मेहता, वित्तीय सलाहकार, वन विभाग, राजस्थान
9. श्री सुपांग शशी, वन संरक्षक, वन्यजीव, जयपुर, विशेष आमंत्रित सदस्य
10. श्री रमेश कुमार मालपानी, उप परियोजना निदेशक, (आर.एफ.बी.डी.पी.) विशेष आमंत्रित सदस्य
11. श्री रेखा राम, उप वन संरक्षक (प्रशासन), प्रमुवसं (ट्री), जयपुर

श्री सेडूराम यादव, मुख्य वन संरक्षक (आयोजना) राजस्थान, जयपुर ने उपस्थित समिति सदस्यों का स्वागत किया तथा सदस्यगणों से चर्चा उपरांत निम्न बिन्दुओं को उचित माना:-

1. दिनांक 13.12.2024 द्वारा राज्य सरकार ने श्रमिक दर 259 से 285 रुपये प्रतिदिन की गई है। जिसमें श्रम भाग 10.03% एवं सामग्री भाग 6.46% बढ़ाकर सभी पराने मॉडल्स संशोधित किए गए हैं। जिसमें एक-एक कर सभी मॉडल्स जो संशोधित किए गए हैं के बारे में स्तुत रूप से सदस्यों को अवगत कराया एवं सदस्यों ने चर्चा में भाग लिया। इस प्रकार सभी मॉडल्स में उक्त मॉडल्स में संशोधन को उचित मानते हुए अनुमोदन किया।



Signature valid

Digitally signed by Sedu Ram Yadav
Designation: Chief Conservator Of

Date: 2025.02.05 13:25:30 IST

Reason: Approved

2. उप परियोजना निदेशक (आर.एफ.बी.डी.पी.) श्री रमेश कुमार मालपानी द्वारा एक नवीन मॉडल **Model Cost Norms for Plant Micro Reserve (PMR) 15 Ha** अनुमोदन हेतु पेश किया जिसमें समिति के सभी सदस्यों ने चर्चा की एवं समिति के अध्यक्ष महोदय द्वारा सभी संभागीय मुख्य वन संरक्षकगणों को उक्त संबंध में अपने प्रस्ताव प्रेषित करने हेतु निर्देशित किया गया, ताकि उक्त मॉडल को अनुमोदित किया जा सके।

तत्पश्चात बैठक सधन्यवाद समाप्त हुई।

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

क्रमांक:-एफ3 (13)प्रमुवसं/ट्री/तक0/21-22/ 45-60

दिनांक:- 05.02.2025

प्रतिलिपि निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

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

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

Signature valid

Digitally signed by Secy Ram Yadav
Designation: Chief Conservator Of
Forest
Date: 2025.02.05 13:25:30 IST
Reason: Approved

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

क्रमांक : एफ 3(13)प्रमुवसं/ट्री/तक0/23-24/ 61-76

दिनांक:- 05.02.2025

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 रु. 285/एवं सामग्री दर
2023

महोदय,

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

- 1- Model cost norms for Reforestation of Degraded Forests-I
- 2- Model cost norms for Reforestation of Degraded Forests-II
- 3- Model cost norms Grassland Development (Desert Area)
- 4- Model cost norms Grassland Development Protected Areas(Desert Area)
- 5- Model cost norms Grassland Development (Non-Desert Area)
- 6- Model cost norms Grassland Development Protected Areas(Non-Desert Area)
- 7- Model cost norms for Silvi-Pastoral Non-IGNP Area (Wildlife/Hill Area)
- 8- Model cost norms for Silvi-Pastoral plantation in IGP Area
- 9- Model cost norms for Bamboo Culture Operations
- 10- Model cost norms for Shelter Belt Plantation-10 Ha
- 11- Model cost norms for Shelter Belt Plantation-25 Ha
- 12- Raising of Plants in the Nursery Model-2
- 13- Raising of Plants in the Nursery Model-3
- 14- Raising of Plants in the Nursery Model-4
- 15- Raising of Plants in the Nursery Model-5
- 16- Raising of Plants in the Nursery Model-6
- 17- Raising of Plants in the Nursery Model-7
- 18- Sand Dunes Stabilization
- 19- Model cost norms for Fuelwood Plantation
- 20- Model cost norms for Closure for Biodiversity conservation
- 21- Model cost estimate for productivity enhancement operations
- 22- Model cost norms for Enrichment of Old RDF Plantation
- 23- Model cost estimate for compensatory afforestation DFL-5Ha
- 24- Model cost estimate for compensatory afforestation DFL-25Ha
- 25- Model cost estimate for compensatory afforestation DFL-50Ha
- 26- Model cost estimate for compensatory afforestation NFL-5Ha

- 27- Model cost estimate for compensatory afforestation NFL-25Ha
- 28- Model cost estimate for compensatory afforestation NFL-50Ha
- 29- Model cost estimate of Regeneration of Safety Zones
- 30- Model cost norms canal side plantation (Distributory)
- 31- Model cost norms canal side plantation (Minor)
- 32- Dwarf/Medicinal Plantation model under Compensatory Afforestation Project for High Voltage Transmission Power line of 46 Meter Width
- 33- Block Plantation IGNP
- 34- Block Plantation Non IGNP (Afforestation Model I)
- 35- Coppice Maintenance and GAP Planting Without Fencing
- 36- Model cost norms for Afforestation-I in Bazar/Panchayat Land
- 37- Model cost Norms for Afforestation-II in Bazar Tree less stony land
- 38- ANR Rocky Areas

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

<http://www.forest.rajasthan.gov.in/content/raj/forest/en/forest,-department/departamental-wings/forest-development/model-for-developmental-activities.htm>

संलग्न-मॉडल की प्रति।

भवदीय

मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर।

O/C

(सेठुराम यादव)
मुख्य वन संरक्षक (आयोजना,
राजस्थान, जयपुर)

Model Cost Norms for RDF I

Labour rate Rs. 285/- per day

Unit- 50 Ha

Perimeter - Average 3000 RM (1000 MX500M)

No. of Plants - 500

Spacing- 4MX5M

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata			665.00	53.54	718.54
2	Survey of area, Layout of contour trenches/Furrows, Pits and marking of segments/plots	Prorata			521.75	53.54	575.29
3	Fencing by stone wall and or by ditch.				0.00	0.00	0.00
a	Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha.)	Meter	30	285.00	8550.03	0.00	8550.03
b	Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	Meter	30	309.03	9270.83	0.00	9270.83
4	Cost of raising 550 seedlings	Plant	550	9.82	3799.66	1602.75	5402.41
5	Digging up Trenches :				0.00	0.00	0.00
a.	Digging up 300 rmt Staggered Contour Trenches with cross section size: 45cmX45cm Sqmt.	RMT	300	36.31	10893.86	0.00	10893.86
b.	Digging up 100 rmt V Ditches with 45X45 cm cross section on middle slopes and V ditch in Slope less than 6% as per site condition and requirement	Meter	100	35.83	3582.87	0.00	3582.87
c.	Construction of 50 M Contour Dykes with cross section 30X30 cm on upper slopes and sowing of suitable thorny shrub species along the inner side	Meter	50	38.58	1928.98	0.00	1928.98
6	Digging of 300 pits size: $0.45 \times ((0.4 + 0.5)/2)$ cum	Plant	300	22.30	6690.74	0.00	6690.74
7	Cost of collection and purchases of grass and other seeds	Prorata			0.00	303.01	303.01
8	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1425.01	0.00	1425.01
9	In situ Soil & Moisture Conservation measures like Check dams, Nadis, Earthen Bunds etc.	Prorata			5463.27	0.00	5463.27
10	Construction of water harvesting structure /Nadi				6871.94		6871.94
11	Construction of Thatched cattle guard hut.	Prorata			285.00	38.73	323.73
12	Purchase or construction of Water storage Tank	Prorata			0.00	64.93	64.93
13	Purchase of tools and plants	Prorata			0.00	96.83	96.83
14	Labour amenities	Prorata			104.05	75.18	179.23
15	watch and ward for 4 months	Prorata			594.13	0.00	594.13
16	Misc. and unforeseen expenses including running of vehicles	Prorata			269.60	52.40	322.00
Total 0 year					60917	2341	63258

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. ई. राज., जयपुर
कोड सं. 19337

(संझराम यादव)
मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

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YEAR : 1 PLANTATION YEAR							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maint. of 550 seedling in Nursery	Plant	550	2.37	1036.91	268.55	1305.45
2	Digging of 200 pits size 0.45X(0.4+ .5)/2 Cum	Plant	200	22.30	4460.49	0.00	4460.49
3	Sowing/dibbling of seeds of grass/thorny Tree species on the mound of trenches and ditch fencing 230 m	Meter	230	0.74	170.15	0.00	170.15
4	Purchase of fertilizers and insecticide and its application	Prorata			2233.26	472.74	2706.00
5	Sowing of pellets of grass seeds / pieces of seed mud cakes in between rows & pits	Prorata			645.40	0.00	645.40
6	Transport of 500 seedlings from Nursery to planting site	Plant	500	1.74	853.50	15.95	869.44
7	Planting of 500 seedlings including Refilling of pits	Plant	500	5.20	2601.20	0.00	2601.20
8	Restoration of natural regeneration by making crescent shaped mounds on the lower slope of 150 seedlings and saplings	Plant	150	5.21	781.11	0.00	781.11
9	Making of crescent shaped mounds below 500planted saplings after planting and dibbing of 3 seeds of thorny tree species.	Plant	500	4.54	2269.45	0.00	2269.45
10	Weeding and Hoeings of 500 plants two times with repairing plants mound	Plant	1000	4.54	4538.90	0.00	4538.90
11	Watering of Plants	Prorata			0.00	0.00	0.00
12	Weeding on contour trenches and espacement/singling	Prorata			665.00	0.00	665.00
13	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1425.01	0.00	1425.01
14	Raising of 10% Plants (55) in Nursery for casualty replacement in year 2	Plant	55	9.82	379.97	160.28	540.24
15	Watch and ward charges for 12 months	Prorata			1780.88	0.00	1780.88
16	Labour hut etc	Prorata			413.18	43.29	456.46
17	Construction of approach roads/inspection path	Prorata			374.01	0.00	374.01
18	Construction of gate and fixing of sign boards	Prorata			585.41	74.04	659.45
19	Misc. and unforeseen expences including (additional watering, fencing and frost protection measures and running of vehicles etc.)	Prorata			375.23	112.77	488.01
TOTAL YEAR 1					25589	1148	26737


 आहरण एवं वितरण अधिकारी
 उप वन संरक्षक (प्रशासन)
 प्रधान मुख्य वन संरक्षक
 टी. आर. ई. राज, जयपुर
 कोड सं. 19337


 (सेडूराम यादव)
 मुख्य वन संरक्षक (आयोजना)
 राजस्थान, जयपुर

YEAR 2 : MAINTENANCE-I

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maint. of 55 plants in nursery	Plant	55	2.37	103.69	26.85	130.55
2	Repair of Fencing	Prorata			285.00	0.00	285.00
3	Casualty replacement of 50 plants (10%) including redigging of pits, transportation planting, watering and application of insecticide	Plant	50	14.77	714.76	23.92	738.69
4	Weeding and Hoeing in 500 plants two times and repairing of mounds	Plant	1000	4.54	4538.90	0.00	4538.90
5	Watch and ward charges for 12 months	Prorata			1780.88	0.00	1780.88
6	Misc. and Unforeseen expenses including (Repair of Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			300.41	121.89	422.29
TOTAL YEAR 2					7724	173	7896

YEAR 3 : MAINTENANCE-II

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1780.88	0.00	1780.88
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			530.80	131.00	661.79
TOTAL YEAR 3.					2312	131	2443

YEAR 4 : MAINTENANCE-III

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1780.88	0.00	1780.88
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			530.80	131.00	661.79
TOTAL YEAR 4					2312	131	2443
Grand Total					98853	3923	102776

Yearwise Cost Statement RDF I

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				60917	2341	63258
2	YEAR 1 - PLANTING YEAR				25589	1148	26737
3	YEAR 2 - MAINTENANCE I				7724	173	7896
4	YEAR 3 - MAINTENANCE II				2312	131	2443
5	YEAR - 4 MAINTENANCE III				2312	131	2443
Grand Total					98853	3923	102776

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें। डीपी सीसीटी, सीसीटी एवं स्टेगर्ड कन्दूर ट्रेन्च बनाते समय क्षेत्र में विद्यमान पेड़ों को क्षति नहीं पहुंचाई जाये

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. ई., राज., जयपुर
कोड सं. 19337

(सेडूराम यादव)
मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

Model Cost Norms for RDF II

Labour rate Rs. 285/- per day

Unit - 50 Ha

No. of Plants - 200

Perimeter - Average 3000 RM (1000 MX500M)

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata			665.00	53.54	718.54
2	Survey of area, Layout of contour trenches/Furrows, Pits and marking of segments/plots	Prorata			521.75	53.54	575.29
3	Fencing by stone wall and/ or by ditch.				0.00	0.00	0.00
a	Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha.)	Meter	30	285.00	8550.03	0.00	8550.03
b	Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	Meter	30	309.03	9270.83	0.00	9270.83
4	Cost of raising 220 seedlings	Plant	220	9.82	1519.86	641.10	2160.96
5	Raising of 240 plants in 10cmX15 cm bags for planting on mounds of trenches and V ditches (includes 20% extra)	Plant	0		0.00	0.00	0.00
6	Digging up Trenches :				0.00	0.00	0.00
a	Digging up 300 rmt Staggered Contour Trenches with cross section size: 45cmX45cm Sqmt.	RMT	300	62.51	10893.86	0.00	10893.86
b	Digging up 100 rmt V Ditches with 45X45 cm cross section on middle slopes and V ditch in Slope less than 6% as per site condition and requirement	RMT	100	91.68	3582.87	0.00	3582.87
c	Construction of 50 M Contour Dykes with cross section 30X30 cm on upper slopes and sowing of suitable thorny shrub species along the inner side	RMT	50	138.91	1928.98	0.00	1928.98
7	Digging of 200 pits size: 0.45x((.4+.5)/2) cum	Plant	200	22.30	4460.49	0.00	4460.49
8	Cost of collection and purchases of grass and other seeds	Prorata			0.00	455.65	455.65
9	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1425.01	0.00	1425.01
10	In situ Soil & Moisture Conservation measures like Check dam, Nadis, Earthen Bunds etc.	Prorata			2812.96	0.00	2812.96
11	Construction of water harvesting structure /Nadi	Prorata			6871.94	0.00	6871.94
12	Construction of Thatched cattle guard hut.	Prorata			285.00	38.73	323.73
13	Purchase or construction of Water storage Tank	Prorata			0.00	64.93	64.93
14	Purchase of tools and plants	Prorata			0.00	96.83	96.83
15	Labour amenities	Prorata			104.05	75.18	179.23
16	Watch and Ward for 4 months	Prorata			594.13	0.00	594.13
17	Misc. and unforeseen expenses including running of vehicles	Prorata			388.44	50.12	438.56
Total 0 year					53875	1530	55405

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. ई. राज., जयपुर
कोड सं. 19337

(सेडूराम यादव)
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राजस्थान, जयपुर

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YEAR : 1 PLANTATION YEAR							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 220 seedling in nursery	Plant	220	2.37	414.76	107.42	522.18
2	In situ Soil & Moisture Conservation measures like Check dam, Nadis, Earthen Bunds etc.	Prorata			3230.01	214.15	3444.17
3	Sowing/dibbling of seeds of grass, trees and shrubs including seeds of medicinal plants on the mounds of trench/ditch fencing (230 M)	Meter	230	0.74	170.15	0.00	170.15
4	sowing of grass seeds including raking in the interspace	Prorata			645.40	0.00	645.40
5	Transportation of 200 plants from nursery to planting site	Plant	200	1.62	274.45	50.12	324.57
6	Planting of 200 seedlings including Refilling of pits	Plant	200	5.13	1002.78	23.92	1026.70
7	Purchase and application of insecticide and fertilizer in 200 plants	Prorata			874.61	199.35	1073.95
8	Making of crescent shaped mounds below planted sapling after planting and dibbling of 3 seeds of thorny tree species (200 saplings).	Plant	200	4.52	904.77	0.00	904.77
9	Weeding and Hoeings of 200 plants two time repairing plants mound	Plant	400	4.52	1809.53	0.00	1809.53
10	Weeding on Contour Trench/ V ditch and espacement /singling	Prorata			586.59	0.00	586.59
11	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1425.01	0.00	1425.01
12	Raising of 10% Plants (20 plants) in Nursery for casualty replacement in year 2	Plant	20	9.82	138.17	58.28	196.45
13	Watch and ward charges for 12 months	Prorata			1780.88	0.00	1780.88
14	Labour hut etc	Prorata			413.18	43.29	456.46
15	Construction of approach roads/inspection path	Prorata			374.01	0.00	374.01
16	Construction of gate and fixing of sign boards	Prorata			585.41	74.04	659.45
17	Administrative expenditure including office electricity stationary, running of vehicles etc.			2671.75	2671.75	0.00	2671.75
18	Misc. and unforeseen expences including (additional watering, fencing and frost protection measures and running of vehicles etc.)	Prorata			275.95	230.10	506.06
TOTAL YEAR 1					17577	1001	18578


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YEAR 2 : MAINTENANCE-I							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 20 plants in nursery	Plant	20	2.37	37.71	9.77	47.47
2	Repair of Fencing	Prorata			285.00	0.00	285.00
3	Casualty replacement of 20 plants (10%) including redigging of pits, transportation planting, watering and application of insecticide	Plant	20	14.76	285.00	10.25	295.25
4	Weeding and Hoeing in 200 plants two times and repairing of plant mounds	Plant	400	4.52	1809.53	0.00	1809.53
5	Watch and ward charges for 12 months	Prorata			1780.88	0.00	1780.88
6	Misc. and Unforeseen expenses including (Repair of Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			247.30	131.00	378.30
TOTAL YEAR 2					4445	151	4596
YEAR 3 : MAINTENANCE-II							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1780.88	0.00	1780.88
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			520.24	131.00	651.24
TOTAL YEAR 3					2301	131	2432
YEAR 4 : MAINTENANCE-III							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1780.88	0.00	1780.88
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			520.24	136.69	656.93
TOTAL YEAR4					2301	137	2438
Grand Total					80500	2949	83449

Yearwise Cost Statement RDF II

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				53875	1530	55405
2	YEAR 1 - PLANTING YEAR				17577	1001	18578
3	YEAR 2 - MAINTENANCE I				4445	151	4596
4	YEAR 3 - MAINTENANCE II				2301	131	2432
5	YEAR - 4 MAINTENANCE III				2301	137	2438
Grand Total					80500	2949	83449

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें। डीप सीसीटी, सीसीटी एवं स्टेगर्ड कन्दूर ट्रेन्च बनाते समय क्षेत्र में विद्यमान पेड़ों को क्षति नहीं पहुंचाई जाये।

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Model Cost Norms Grassland Development (Desert Area)							
	Labour rate Rs. 285/- per day		Perimetre- 60 m/ha				
	Unit- 50 Ha		No. of Plants- 100				
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Survey of area, alignment of pits for pole fixing, division of area into segments, preparation of treatment map and plantaion card.	Prorata	1	481.40	431.28	50.12	481.40
2	A. Fencing of plantation area with 2.1 mt. high Prestressed cement concrete Post and 5 strand barbed wire (details given at annexure "A" for PCC POST, annexure "B" for Fencing detail) 40 M	Meter	30	214.35	1320.47	5110.08	6430.55
	B. Wire mesh fancing fitted with 2.1 mt high prestressed cement concrete post.	Meter	30	309.02	9270.68	0.00	9270.68
3	In Situ Soil & Moisture Conservatin measures like check dam, Nadis, Earthen Bunds etc	LS	—	—	880.31	638.76	1519.07
4	Digging up 100 rmt V-dicth with cross section size: 1.20x((0.30+0.0)/2) Sqmt. in area with Gentle slope	Meter	100	36.31	3631.29	0.00	3631.29
5	Removal of invasive species(Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	—	—	6602.34	1064.60	7666.94
6	Digging of 100 pits size: 0.45x((.4+.5)/2) cum	Plant	120	22.30	2676.59	0.00	2676.59
7	raising of 120 plants for plants for planting including 20 % extra	Plant	120	9.93	1191.06	0.00	1191.06
8	Raising of Grass slips and other indigenous plants in 10cmX15 cm bags (includes 20% extra)				0.00	0.00	0.00
	Grass 960 slips	Plant	960	2.52	2419.10	0.00	2419.10
9	Purchase of tools, plants & insecticides	Prorata	1	157.20	0.00	157.20	157.20
10	Purchase of fertilizers, DAP & Urea Vermi composat, NPK	Prorata	1	375.91	0.00	375.91	375.91
11	Sign board including painting and fixing gate	Prorata	1	117.33	0.00	117.33	117.33
12	Watch and Ward for 4 months	Prorata	1	653.55	653.55	0.00	653.55
13	cost of Collection & Purchase of seeds of grass/ Ber/ khejari and other indigenous species (6 Kg/Ha)	Prorata	6	113.91	0.00	683.47	683.47
14	Construction of Cattle guard hut	Prorata	1	771.63	570.00	201.62	771.63
15	R & M of Vehicle	Prorata	1	195.93	0.00	195.93	195.93
16	Labour amenities	Prorata	1	160.63	0.00	160.63	160.63
17	Misc. and unforeseen expenditure	Prorata	1	604.98	307.49	297.49	604.98
TOTAL 0 Year					29954	9053	39007

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YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 120 plants in nursery	Plant	120	2.51	331.44	0.00	331.44
2	Transport of 100 plants upto site including loading and unloading (up to 5 km)	Plant	100	1.96	215.68	0.00	215.68
3	planting of 100 seedlings including Refilling of pits	Plant	100	4.67	513.88	0.00	513.88
4	Construction of Water Point / Water Storage Tank	Prorata			220.08	425.84	645.92
5	Transport of 800 grass slips upto site including loading and unloading (upto 5 kms.)	Prorata	800	1.11	977.15	0.00	977.15
6	In Continuosion and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement) in	Prorata	-	-	5501.95	1596.90	7098.85
7	Digging of Trench size 0.15x0.15cm Near Fencing	Prorata	60	1.95	128.75	0.00	128.75
8	Sowing of seeds Near Fencing Trenches	Meter	400	1.00	440.16	0.00	440.16
9	Digging of Furrows (by tractor) 200 rmt	RMT	200	1.00	0.00	212.92	212.92
10	Digging of Furrows (15x15cm) manual 200 RMT	RMT	200	1.95	429.15	0.00	429.15
11	Sowing of grass seeds	Prorata	1	234.33	257.85	0.00	257.85
12	Planting-				0.00	0.00	0.00
	Planting of 800 grass slips/ locally available and including local transport and watering	Plant	800	3.04	2676.15	0.00	2676.15
13	Weeding and Hoeing 2X100=200	Plant	1000	8.00	783.48	0.00	783.48
14	Weeding of 100 plants in 2 time.	Plant	400	4.65	908.92	0.00	908.92
15	Running & Maintenance of Vehicles	Prorata	1	117.33	0.00	117.33	117.33
16	Labour amenities	Prorata	1	154.92	0.00	154.92	154.92
17	Watch & Ward for 12 months	Prorata	1	1780.88	1780.88	0.00	1780.88
18	Misc. and unforeseen expenditure	Prorata	1	378.94	272.48	106.46	378.94
	Total Year 1				15438	2614	18052


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YEAR-2 Maintenance-I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 20 plants in nursery	Plant	20	2.76	55.24	0.00	55.24
2	Transpotation of 20 Plants	Plant	20	1.76	35.21	0.00	35.21
3	including digging of pits , Treating with pesticides , fertilisers, and watering	Plant	20	12.10	242.09	0.00	242.09
4	Application of urea and fertilisers -2 times , 100 plants	Plant	200	0.65	129.85	0.00	129.85
5	Weeding and Hoeing 2X100=200	plant	200	7.85	1569.16	0.00	1569.16
6	R&M of vehicles	Prorata			0.00	470.53	470.53
7	In Continuoosion and Subsquent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	-	-	4951.76	532.30	5484.06
8	Purchase of Grass and other seeds	Prorata	-	-	0.00	212.92	212.92
9	Sowing of Grass and other speices seeds	Prorata	-	-	0.00	425.84	425.84
10	Expenditure on Maintenance including (Repair of fencing/Structures,Removal of weeds, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			519.60	0.00	519.60
11	Watch and Ward charges	Prorata			1780.88	0.00	1780.88
12	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			121.62	117.66	239.27
Total 2 year					9405	1759	11165
Year-3 Maintenance-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Prunning and Tending of 100 plants	Plant	100	2.14	235.48	0.00	235.48
2	Watch and Ward charges	Prorata			1780.88	0.00	1780.88
3	Miscellaneous expenditure (Labour, Removal of weeds, Instruments, Machine,repair of watercourse etc)	Prorata			175.25	61.51	236.76
Total 3 Year					2192	62	2253
Year-4 - Maintenance-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			1780.88	0.00	1780.88
2	Miscellaneous expenditure/repair of watercourse	Prorata			159.84	101.38	261.22
Total 4 Year					1941	101	2042
Yearwise Cost Grassland Development (Desert Area)							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 -ADVANCE ACTION				29954	9053	39007
2	YEAR 1 - PLANTING YEAR				15438	2614	18052
3	YEAR 2 - MAINTENANCE I				9405	1759	11165
4	YEAR 3 - MAINTENANCE II				2192	62	2253
5	YEAR - 4 MAINTENANCE III				1941	101	2042
Grand Total					58930	13590	72520
नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें। 2. Fecing मद में Ditch fencing and Barbed Wire Fencing दोनों का प्रावधान रखा गया है। संबंधित मुख्य वन संरक्षक कार्यस्थल की परिस्थिति एवं नियमानुसार स्वीकृति देकर आवश्यकतानुसार परिवर्तन कर सकते है।							

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Model Cost Norms Grassland Development Protected Areas (Desert Area)

Labour rate Rs. 285/- per day
Unit- 50 Ha

Perimetre- 60 m/ha
No. of Plants- 100

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Survey of area, alignment of pits for pole fixing, division of area into segments, preparation of treatment map and plantaion card.	Prorata	1	481.40	431.28	50.12	481.40
2	A. Fencing of plantation area with 2.1 mt. high Prestressed cement concrete Post and 5 strand barbed wire (details given at annexure "A" for PCC POST, annexure "B" for Fencing detail) 40 M	Meter	30	214.35	1320.47	5110.08	6430.55
	B. Wire mesh fancing fitted with 2.1 mt high prestressed cement concrete post.	Meter	30	309.02	9270.68	0.00	9270.68
3	Removal of invasive species(Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	—	—	6052.15	3193.80	9245.95
4	In Situ Soil & Moisture Conservatin measures like check dam, Nadis, Earthen Bunds etc	LS	—	—	880.31	638.76	1519.07
5	Digging up 100 rmt V-dicth with cross section size: 1.20x((0.30+0.0)/2) Sqmt. in area with Gentle slope	Meter	100	26.98	2698.16	0.00	2698.16
6	Raising of Grass slips and other indigenous plants in 10cmX15 cm bags (includes 20% extra)				0.00	0.00	
	Grass 1200 slips	Plant	1200	2.52	3023.87	0.00	3023.87
7	Sign board including painting and fixing gate	Prorata	1	117.33	0.00	117.33	117.33
8	Cost of Collection & Purchase of seeds of grass/ Ber/Khejari and other indigenous species (3 Kg+3kg fodder species/Ha)	Prorata	6	113.91	0.00	683.47	683.47
9	Construction of Cattle guard hut	Prorata	1	661.59	459.96	201.62	661.59
10	R & M of Vehicle	Prorata	1	264.06	0.00	264.06	264.06
11	Labour amenities	Prorata	1	160.63	0.00	160.63	160.63
12	Purchase of tools, plants & insecticides,fertilizer/bio-fertilizers	Prorata	1	157.20	0.00	157.20	157.20
13	Misc. and unforeseen expenditure	Prorata	1	212.26	146.35	65.91	212.26
TOTAL					24283	10643	34926

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YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Creation of permanent water point	Prorata	2		1980.70	1277.52	3258.22
2	In Continuosion and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	-	-	5501.95	2129.20	7631.15
3	Maitenance of Grass slips and other indigenous plantws in 10x15cm bags (inc ludes 20% extra)	Plant	1200	1.09	1100.39	212.92	1313.31
4	Transport of 1200 Grass slips upto site including loading and unloading (up to 5 km)	Plant	1200	1.22	1465.72	0.00	1465.72
5	Digging of Furrows (by tractor) 200 rmt	RMT	200	1.06	0.00	212.92	212.92
6	Digging of Furrows (15x15cm) manual 200 RMT	RMT	200	2.15	429.15	0.00	429.15
7	Sowing of grass seeds in V-ditch furrows, checkdams, earthen bunds, etc.	Prorata	1	257.85	257.85	0.00	257.85
8	Sowing of grass seeds after making notches(20x20x15cm)	Prorata	200	1.65	330.12	0.00	330.12
9	Planting-				0.00	0.00	
	Planting of 1000 grass slips/ locally available and including local transport and watering	Plant	1000	3.35	3345.19	0.00	3345.19
10	Collection/ Purchase of Grass seeds of local indigenous species(kg/ha)	Prorata	3	227.82	0.00	683.47	683.47
11	Construction of approach roads/inspection path	Prorata	-	-	220.08	57.49	277.57
12	Running & Maintenance of Vehicles	Prorata	1	223.79	0.00	223.79	223.79
13	Labour amenities	Prorata	1	154.92	0.00	154.92	154.92
14	Watch & Ward for 12 months	Prorata	1	1780.88	1780.88	0.00	1780.88
15	Misc. and unforeseen expenditure	Prorata	1	641.29	515.66	125.62	641.29
Total Year 1					16928	5078	22006
YEAR-2 Maintenance-I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	In Continuosion and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	0	0.00	4401.56	2129.20	6530.76
2	Collection/ Purchase of Grass seeds of local indigenous species(kg/ha)	Prorata	0	0.00	110.04	106.46	216.50
3	Sowing of Grass and other speices seeds	Prorata	0	0.00	440.16	0.00	440.16
4	Expenditure on Maintenance including (Repair of fencing/Structures,Removal of weeds, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata	0	0.00	519.60	136.58	656.18
5	Watch and Ward charges (12 month)	Prorata	0	0.00	1780.88	0.00	1780.88
6	R&M of vehicles	Prorata	0	0.00	0.00	390.72	390.72
7	Misc. and unforeseen expenditure	Prorata	0	0.00	243.23	10.25	253.48
Total Year 2					7495	2773	10269

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
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Year-3 Maintenance-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Sowing of Grass and other speices seeds	Prorata	—	—	440.16	0.00	400.00
2	Watch and Ward charges 12 month	Prorata			1780.88	0.00	1780.88
3	Miscellaneous expenditure (Labour, Removal of weeds, Instruments, Machine, repair of watercourse etc)	Prorata			373.34	61.51	434.85
Total Year 3					2154	62	2216
Year-4 - Maintenance-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Sowing of Grass and other speices seeds	Prorata	—	—	440.16	0.00	400.00
2	Watch and Ward charges for 12 months	Prorata			1780.88	0.00	1780.88
3	Miscellaneous expenditure/repair of watercourse	Prorata			168.89	101.38	270.27
Total Year 4					1950	101	2051
Yearwise Cost Grassland Development Protected Areas (Desert Area)							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 -ADVANCE ACTION				24283	10643	34926
2	YEAR 1 - PLANTING YEAR				16928	5078	22006
3	YEAR 2 - MAINTENANCE I				7495	2773	10269
4	YEAR 3 - MAINTENANCE II				2154	62	2216
5	YEAR - 4 MAINTENANCE III				1950	101	2051
Grand Total					52810	18657	71467
नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें। 2. Fecing मद में Ditch fencing and Barbed Wire Fencing दोनों का प्राक्धान रखा गया है। संबंधित मुख्य वन संरक्षक कार्यस्थल की परिस्थिति एवं नियमानुसार स्वीकृति देकर आवश्यकतानुसार परिवर्तन कर सकते हैं।							


 आहरण एवं वितरण अधिकारी
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 टी. आर. ई. ई. राजू, जयपुर
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Model Cost Norms for Grassland Development (Non- Desert Area)

Labour rate Rs. 285/- per day

Unit- 50 Ha

Perimeter - 60m/ha

No. of Plants - 100

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Survey of area, Layout of contour trenches/Furrows, Pits and marking of segments/plots	Prorata			521.75	53.54	575.29
2	Fencing by stone wall and or by ditch.				0.00	0.00	0.00
	A.Stone wall fencing 1.20m high 0.80m at base & 0.60 at top(on an average 30m/ha.)	Meter	30	285.00	8550.03	0.00	8550.03
	B.Wire mase Fancing Fitted with 2.1mt.high prestressed cement concrect post.	Meter	15	309.02	4635.34	0.00	4635.34
	C. Fencing of plantation area with 2.1 mt. high Prestressed cement concrete Post and 5 strand barbed wire (details given at annexure "A" for PCC POST, annexure "B" for Fencing detail) 15 M	Meter	15	214.35	660.23	2555.04	3215.27
3	In Situ Soil & Moisture Conservatin measures like check dam, Nadis, Earthen Bunds etc	Prorata	—	0.00	1100.39	1064.60	2164.99
4	Digging up 50 rmt V-dicth with cross section size: 1.2x((0.30+0.0)/2) Sqmt. in area with Gentle slope	Meter	50	36.31	1815.64	0.00	1815.64
5	Removal of invasive species(Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	—	—	6602.34	3193.80	9796.14
6	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1425.01	0.00	1425.01
7	Cost of raising 110 seedlings	Plants	110	9.93	1091.81	0.00	1091.81
8	Digging of 100 pits Size 0.45x(4+5)/2cum	Plants	110	20.28	2230.49	0.00	2230.49
9	Cost of collection and purchases of grass and other seeds	Prorata			0.00	455.65	455.65
10	Purchase of tools, plants & insecticides	Prorata	1	157.20	0.00	157.20	157.20
11	purchase of fertilizers/bio-fertilizers, DAP & Urea	LS	—	—	388.55	0.00	388.55
12	Cattle Guard Hut	LS	—	—	325.04	0.00	325.04
13	Labour amenities	Prorata			110.04	0.00	110.04
14	Watch & Ward for 4 months	Prorata	1	594.13	594.13	0.00	594.13
15	Misc. and unforeseen expenses including running of vehicles	Prorata			1856.95	0.00	1856.95
Total Year 0					31908	7480	39388

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उप वन संरक्षक (प्रशासन)
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YEAR : 1 PLANTATION YEAR							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	In Continuouson and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	—	—	5501.95	1596.90	7098.85
2	Digging of 30x30cm cross section trnch along inner side of stone wall fencing and seed sowing (30M/ha)	Prorata	30	23.78	713.38	0.00	713.38
3	Maintenance of 110 plants in nursery	plants	110	2.76	303.82	0.00	303.82
4	Traspotation of 100 plants from Nursery to planting site	Plants	100	1.63	162.86	0.00	162.86
5	planting of 100 seedlings including Refilling of pits	Plants	100	5.14	513.88	0.00	513.88
6	Purchase and Application of insecticide & Fertilizers	Plants	100	5.37	437.29	99.67	536.96
7	Making of crescent shaped mounds	Plants	100	1.15	114.56	0.00	114.56
8	Weeding & Hoeing 2X100=200	Plants	200	3.92	783.48	0.00	783.48
9	Watering of 100 plants 2 times	Plant	200	4.54	908.92	0.00	908.92
10	Digging of Furrows (by tractor) 200 rmt	RMT	200	1.06	0.00	212.92	212.92
11	Digging of Furrows (15x15cm) manual 200 RMT	RMT	200	2.15	429.15	0.00	429.15
12	Sowing of grass seeds	Prorata	—	—	515.71	0.00	515.71
13	Raising of 10 plants for casualty replacement	Plants	10	9.93	99.26	0.00	99.26
14	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata	—	—	1115.80	0.00	1115.80
15	Purchase of Grass and other seeds	Prorata	—	—	0.00	532.30	532.30
16	Watch and ward charges for 12 months	Prorata	—	—	1780.88	0.00	1780.88
17	Construction of approach roads/inspection path	Prorata	—	—	484.05	0.00	484.05
18	Labour amenities	Prorata	—	—	110.04	0.00	110.04
19	Construction of gate and fixing of sign boards	Prorata	—	—	484.05	74.04	558.09
20	Misc. and unforeseen expenses including running of vehicles	Prorata	—	—	275.96	230.10	506.06
Total Year 1					14735	2746	17481

आहरण एवं वितरण अधिकारी
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Year-2 Maintenance-I

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 110 plants in nursery	Plants	10	2.76	27.62	0.00	27.62
2	Transplantation of 10 plants	Plants	10	1.76	17.61	0.00	17.61
3	Re planting of 10 plants including Digging of pits , treating with pesticides, fertilisers and watering	plants	10	12.10	121.04	0.00	121.04
4	Purchase of Grass and other seeds	Prorata	—	—	0.00	212.92	212.92
5	Sowing of Grass and other speices seeds	Prorata	—	—	0.00	425.84	425.84
6	Application of urea and fertilisers -2 times 100 plants	Plants	200	0.65	129.85	0.00	129.85
7	Weeding and Hoeing 100 plants in 2 time.	Plant	200	7.85	1569.16	0.00	1569.16
8	R&M of vehicles	Prorata	—	—	0.00	390.72	390.72
9	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata	—	—	764.77	0.00	764.77
10	In Continuoousion and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	—	—	3851.37	532.30	4383.67
11	Expenditure on Maintenance including (Repair of fencing/Structures,Removal of weeds, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata	—	—	519.61	136.58	656.19
12	Watch and Ward charges	Prorata	—	—	1780.88	0.00	1780.88
13	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata	—	—	28.65	10.25	38.90
Total 2 Year					8644	1709	10353

Year-3 Maintenance-II

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Prunning and tending of 100 plants	Plants	100	2.35	235.48	0.00	235.48
2	Watch and Ward charges	Prorata	0	—	1780.88	0.00	1780.88
3	Miscellaneous expenditure (Labour, Instruments, Machine,repair of watercourse etc). Continuoousion and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	0	—	354.61	61.51	416.12
Total 3 Year					2371	62	2432

Year-4 - Maintenance-III

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata	—	—	1780.88	0.00	1780.88
2	Miscellaneous expenditure/repair of watercourse	Prorata	—	—	168.89	101.38	270.27
Total 4 Year					1950	101	2051

Yearwise Cost Statement Grassland Development (Non- Desert Area)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION	—	—	—	31908	7480	39388
2	YEAR 1 - PLANTING YEAR	—	—	—	14735	2746	17481
3	YEAR 2 - MAINTENANCE I	—	—	—	8644	1709	10353
4	YEAR 3 - MAINTENANCE II	—	—	—	2371	62	2432
5	YEAR -4 MAINTENANCE III	—	—	—	1950	101	2051
Grand Total					59608	12097	71705

नोट :- मॉडल कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

मद में Ditch fencing, Stonewall fencing and barbed wire fencing दोनों का प्रावधान रखा गया है। संबंधित मुख्य वन संरक्षक कार्यस्थल की परिस्थिति एवं नियमानुसार स्वीकृति देकर आवश्यकतानुसार परिवर्तन कर सकते हैं।

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Model Cost Norms for Grassland Development for Protected Areas (Non- Desert Area)

Labour rate Rs. 285/- per day

Unit- 50 Ha

Perimeter - 60m/ha

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Survey of area, Layout of contour trenches/Furrows, Pits and marking of segments/plots	Prorata			521.75	53.54	575.29
2	Fencing				0.00	0.00	
	A.Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha.)	Meter	30	285.00	8550.03	0.00	8550.03
	B.Ditch fencing 1.20m deep,1.50m wide at top & 0.90m at bottom (on an average 15m/ha.)	Meter	15	309.02	4635.34	0.00	4635.34
	C. Fencing of plantation area with 2.1 mt. high Prestressed cement concrete Post and 5 strand barbed wire (details given at annexure "A" for PCC POST, annexure "B" for Fencing detail) 15 M	Meter	15	214.35	660.23	2555.04	3215.27
3	In Situ Soil & Moisture Conservatin measures like check dam, Nadis, Earthen Bunds etc	Prorata	—	0.00	2291.01	1064.60	3355.61
4	Digging of contour trenches (.45x.45m)	Meter	50	35.83	1791.43	0.00	1791.43
5	Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	—	—	9683.43	532.30	10215.73
6	Restoration of natural regeneration by Cultural/ Silvicultural operations	Prorata			104.54	0.00	104.54
7	Collection / Purchase of grass seeds of local indigenous species .	Prorata			660.23	425.84	1086.07
8	Purchase of tools, plants & insecticides	Prorata	1	157.20	0.00	157.20	157.20
9	Cattle Guard Hut	LS	—	—	325.04	0.00	325.04
10	Labour amenities	Prorata			110.04	0.00	110.04
11	Watch & Ward for 4 months	Prorata	1	594.13	594.13	0.00	594.13
12	Misc. and unforeseen expenses including running of vehicles	Prorata			274.59	0.00	274.59
Total 0 year					30202	4789	34990

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YEAR : 1 PLANTATION YEAR							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	In Continuosion and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	—	—	7702.73	1596.90	9299.63
2	Creation of permanent Water Point	Prorata	1	1086.07	660.23	425.84	1086.07
3	Grass seed sowing by twice plough with tractor in natural layer (in 5 ha)	Prorata	1	518.55	110.04	408.51	518.55
4	Digging of Furrows (by tractor) 200 rmt	RMT	200	1.06	0.00	212.92	212.92
5	Digging of Furrows (15x15cm) manual 200 RMT	RMT	200	2.15	429.15	0.00	429.15
6	Sowing of grass seeds in trenches, Furrows, Checkdams, Earthen Bunds, Etc.	Prorata			515.71	0.00	515.71
7	Sowing of grass seeds after making notches (20x20x15 cms)		100	2.20	220.08	0.00	220.08
8	Collection / Purchase of grass seeds of local indigenous species	Prorata			550.20	106.46	656.66
9	Watch and ward charges for 12 months	Prorata		—	1780.88	0.00	1780.88
10	Construction of approach roads/inspection path/Fire lines	Prorata	—	—	330.12	126.69	456.80
11	Construction of gate and fixing of sign boards	Prorata	—		484.05	74.04	558.09
12	Misc. and unforeseen expences including running of vehicles etc.	Prorata	—	—	275.96	230.10	506.06
Total 1 year					13059	3181	16241
Year-2 Maintenance-I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	In Continuosion and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement) in	Prorata	—	—	6602.34	2129.20	8731.54
2	Collection / Purchase of grass seeds of local indigenous species	Prorata	—	—	220.08	106.46	326.54
3	Grass seed sowing by twice plough with tractor in natural layer (in 5 ha)	Prorata	1	518.55	110.04	408.51	518.55
4	Sowing of grass seeds after making notches (20x20x15 cms)	Prorata	50	2.20	110.04	0.00	110.04
5	Sowing of grass seeds in trenches, Furrows, Checkdams, Earthen Bunds, Etc.	Prorata	—	—	440.16	0.00	440.16
6	Maintenance of approach roads/inspection path/Fire lines	Prorata	—	—	220.08	0.00	220.08
7	R&M of vehicles	Prorata			1780.88	0.00	1780.88
8	Expenditure on Maintenance including (Repair of fencing/Structures, Removal of weeds, Subsidiary silvicultural operations, etc.)	Prorata			519.61	136.58	656.19
9	Watch and ward charges for 12 months	Prorata		—	1780.88	0.00	1780.88
10	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			249.85	111.17	361.02
Total					12034	2892	14926

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Year-3 Maintenance-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Grass seed sowing by twice plough with tractor in natural layer (in 5 ha)	Prorata	1	518.55	110.04	408.51	518.55
2	Sowing of grass seeds after making notches (20x20x15 cms)	Prorata	50	2.20	110.04	0.00	110.04
3	Sowing of grass seeds in trenches, Furrows, Checkdams, Earthen Bunds, Etc.	Prorata	—	—	440.16	0.00	440.16
4	Watch and ward charges for 12 months	Prorata		—	1780.88	0.00	1780.88
5	Miscellaneous expenditure (Labour, Instruments, Machine, repair of watercourse etc). Continuous and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata			373.34	61.51	434.85
Total					2814	470	3284

Year-4 - Maintenance-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 months	Prorata		—	1780.88	0.00	1780.88
2	Miscellaneous expenditure (Labour, Instruments, Machine, repair of watercourse etc). Continuous and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata			168.89	101.38	270.27
Total					1950	101	2051

Yearwise Cost Statement Grassland Development Non- Desert Area (Without Planting)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				30202	4789	34990
2	YEAR 1 - PLANTING YEAR				13059	3181	16241
3	YEAR 2 - MAINTENANCE I				12034	2892	14926
4	YEAR 3 - MAINTENANCE II				2814	470	3284
5	YEAR - 4 MAINTENANCE III				1950	101	2051
Grand Total					60059	11433	71492

नोट :- 1. मॉडल कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

2. fencing मद में Ditch fencing, Stonewall fencing and barbed wire fencing दोनों का प्रावधान रखा गया है। संबंधित मुख्य वन संरक्षक कार्यस्थल की परिस्थिति एवं नियमानुसार स्वीकृति देकर आवश्यकतानुसार परिवर्तन कर सकते हैं।

आहरण एवं वितरण अधिकारी
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Model Cost Norms for Silvi-Pastoral Non-IGNP Area(Wildlife/Hill Area)

Labour rate Rs./- per day

285.00

Spacing: 5mx5m

Unit- Ha

50.00

Perimeter - Average 3000 RM (625 MX400M)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata	1	221.99	176.42	45.56	221.99
2	Survey of area, alignment of pits for pole fixing division of area into segments, preparation of treatment map and plantation card.	Prorata	1	481.40	431.27	50.12	481.40
3	Fencing of plantation area with 1.5 mt. high angle iron/ RCC Post and 5 strand barbed wire/ local thorny material or 1.50 m angle iron post and two lines of wire and 1.2 M broad welded wiremesh (details given at annexure "A" for Angle iron, annexure "B" for RCC Post, C for wire mesh) 60 M	Meter	60	179.62	5389.36	5388.05	10777.41
1	In Continuosion and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	-	-	9683.40	1064.60	10748.00
4	Raising of dhaman, styleo, karad, sevan etc.. (A) 20% extra)	Plant	960	2.49	1592.68	799.22	2391.89
(B)	other indigineous plants like ber khejari, raunj, etc. 240 plants	Plant	240	2.49	398.17	199.80	597.98
5	construction of Water storage Tank/water harvesting structures	Prorata	1	1021.09	570.00	451.09	1021.09
6	Purchase of tools, plants & insecticides	Prorata	1	157.20	0.00	157.20	157.20
7	Sign board including painting and fixing	Prorata	1	117.33	0.00	117.33	117.33
8	Purchase of seeds of ddhaman, styleo, karad, sevan etc and other indigenous species (6 Kg/Ha)	Prorata	1	683.47	0.00	683.47	683.47
9	Construction of Cattle guard hut	Prorata	1	771.62	570.00	201.62	771.62
10	R & M of Vehicle	Prorata	1	195.93	0.00	195.93	195.93
11	Labour amenities	Prorata	1	72.90	0.00	72.90	72.90
12	Watch & Ward for 04 months	Prorata	1	594.13	594.13	0.00	594.13
13	Misc. and unforeseen expenditure	Prorata	1	126.18	36.19	89.99	126.18
TOTAL YEAR 0					19442	9517	28959
YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	In Continuosion and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	-	-	7702.70	2129.20	9831.90
2	dhaman, styleo, karad, sevan etc.. (includes (A) 20% extra)	Plant	960	1.49	1064.30	369.15	1433.45
(B)	other indigineous plants like ber khejari, raunj, etc. 240 plants	Plant	240	1.49	266.07	92.29	358.36
3	600 m trenches Digging of size 20 cm deepx 30cm bottom and 50cms at top for irrigation	Meter	600	2.35	1411.43	0.00	1411.43
4	Transport of 800 dhaman, styleo, karad, sevan etc. upto site including loading and unloading (upto 5 kms.)	Plant	800	0.97	774.67	0.00	774.67
5	Sowing of dhaman, styleo, karad, sevan etc.	Prorata	1	257.85	257.85	0.00	257.85
6	Planting-				0.00	0.00	
	(a) Planting of 800 dhaman, styleo, karad, sevan etc. and including local transport and watering	Plant	800	4.12	2517.68	779.16	3296.84
7	Running & Maintenance of Vehicles	Prorata	1	117.33	0.00	117.33	117.33
8	Labour amenities	Prorata	1	157.20	0.00	157.20	157.20
9	Watch & Ward for 12 months	Prorata	1	1779.37	1779.37	0.00	1779.37
10	Misc. and unforeseen expenditure	Prorata	1	102.86	57.30	45.56	102.86
TOTAL Planting Year 1					15831	3690	19521

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Year-2 Maintenance-I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	In Continuouson and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	—	—	6602.32	2129.20	8731.52
2	Running & Maintenance of Vehicles	Prorata	1	117.33	0.00	117.33	117.33
3	Labour amenities	Prorata	1	195.93	0.00	195.93	195.93
4	Watch & Ward for 12 months	Prorata	1	1779.37	1779.37	0.00	1779.37
5	Misc. and unforeseen expenditure	Prorata	1	194.28	123.65	70.63	194.28
Total YEAR 2					8505	2513	11018
Year-3 Maintenance-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward for 12 months	Prorata	1	1779.37	1779.37	0.00	1779.37
2	Miscellaneous and unforeseen expenditure	Prorata	1	70.94	61.83	9.11	70.94
Total YEAR 3					1841	9	1850
Year-4 - Maintenance-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward for 12 months	Prorata	1	1779.37	1779.37	0.00	1779.37
2	Miscellaneous and unforeseen expenditure	Prorata	1	70.94	61.83	9.11	70.94
Total YEAR 4					1841	9	1850
Year-5 - Maintenance-IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward for 12 months	Prorata	1	1779.37	1779.37	0.00	1779.37
2	Fencing repairing etc	Prorata	1	63.87	42.22	21.64	63.87
Total YEAR 5					1822	22	1843
Year-6 - Maintenance-V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward for 12 months	Prorata	1	1779.37	1779.37	0.00	1779.37
2	Fencing repairing etc	Prorata	1	63.87	42.22	21.64	63.87
Total YEAR 6					1822	22	1843
Year-7 - Maintenance-VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward for 12 months	Prorata	1	594.13	594.13	0.00	594.13
2	Fencing repairing etc	Prorata	1	65.77	40.71	25.06	65.77
Total YEAR 7					635	25	660
Yearwise Cost Statement Silvi-Pastoral Non-IGNP Area(Wildlife/Hill Area)							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				19442	9517	28959
2	YEAR 1 - PLANTING YEAR				15831	3690	19521
3	YEAR 2 - MAINTENANCE I				8505	2513	11018
4	YEAR 3 - MAINTENANCE II				1841	9	1850
5	YEAR - 4 MAINTENANCE III				1841	9	1850
6	YEAR - 5 MAINTENANCE IV				1822	22	1843
7	YEAR - 6 MAINTENANCE V				1822	22	1843
8	YEAR - 7 MAINTENANCE VI				635	25	660
Grand Total					51739	15806	67545
नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।							

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Not mail

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Model Cost Norms silvi-pastoral plantation in IGNP area

Labour rate Rs. 285/- per day

Perimetre/ha- 60 m

Unit- 50 Ha

No. of Plants- 200

Perimeter - Average 3000 RM (625 MX400M)

Spacing -5MX5M

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata	1	221.99	176.43	45.56	221.99
2	Survey of area, alignment of pits for pole fixing, division of area into segments, preparation of treatment map and plantaion card.	Prorata	1	481.39	431.27	50.12	481.39
3	Fencing of plantation area with 1.5 mt. high Angle iron / RCC Post and 4 strand barbed wire / local thorny material or 1.50 m angle iron post and two lines of wire and 1.2 M broad welded wiremesh (details given at annexure "A" for Angle Iron, annexure "B" for RCC Post, C for wire mesh) 60 M	Meter	60	179.62	5389.37	5388.05	10777.41
4	Raising of 240 plants for planting including 20% extra	Plant	240	9.82	1658.03	699.38	2357.41
5	Raising of Sewan Grass slips and other indigenous plants in 10cmX15 cm bags (includes						
a	Sewan Grass 960 slips	Plant	960	2.49	1592.68	799.22	2391.89
b	Other indigenous plants like ber khejari, raunj, etc. 240 plants	Plant	240	2.49	398.17	199.80	597.97
6	Purchase of irrigation equipments				0.00	0.00	
a.	Purchase of 8 HP Engine	Prorata	1	683.47	0.00	683.47	683.47
b.	Purchase of HDPE/LGS pipe (3 inch diameter) 13.2 m per Ha	Prorata	1	1934.23	0.00	1934.23	1934.23
c.	Purchase of PVC pipes of 3 inch dia & 1 inch dia	Prorata	1	586.65	0.00	586.65	586.65
7	Purchase of tools, plants & insecticides	Prorata	1	157.20	0.00	157.20	157.20
8	Purchase of fertilizers, DAP & Urea Vermi compost, NPK	Prorata	1	375.91	0.00	375.91	375.91
9	Sign board including painting and fixing	Prorata	1	117.33	0.00	117.33	117.33
10	Purchase of seeds of Sewan grass/ Ber/Khejari and other indigenous species (6 Kg/Ha)	Prorata	6	113.91	0.00	683.47	683.47
11	Construction of Cattle guard hut	Prorata	1	771.62	570.00	201.62	771.62
12	R & M of Vehicle	Prorata	1	195.93	0.00	195.93	195.93
13	Labour amenities	Prorata	1	72.90	0.00	72.90	72.90
14	Watch & Ward for 4 months	Prorata	1	594.13	594.13	0.00	594.13
15	Misc. and unforeseen expenditure	Prorata	1	124.64	39.21	85.43	124.64
TOTAL YEAR 0					10849	12276	23126

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YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 240 plants in Nursery	Plant	240	2.37	452.47	117.18	569.65
2	Maintenance of Sewan Grass and plants in						
a	Sewan Grass (960)	Plant	960	1.49	1064.30	369.15	1433.46
b	Other indigineous plants like ber khejari, raunj ,etc. (240)	Plant	240	1.49	266.08	92.29	358.36
3	Construction of Nadi/ water storage tanks	Prorata	1	1921.44	1140.00	781.44	1921.44
4	600 m trench digging- of size 20cmX30cmX50 cm for irrigation	Meter	600	2.35	1411.43	0.00	1411.43
5	Transport of 220 plants upto site including loading and unloading (upto 5 kms.)	Plant	220	2.15	447.86	26.20	474.06
6	Transport of 800 grass slips and 200 plants raised in 10 cmX15cm bags upto site including loading and unloading (upto 5 kms.)	Plant	1000	0.98	975.63	0.00	975.63
7	Mulching on shifting sand dunes (200 m/Ha)	Meter	200	9.58	1916.59	0.00	1916.59
8	Sowing of grass seeds	Prorata	1	257.86	257.86	0.00	257.86
9	Planting-						
	a. Digging of 45cm×45cm×45 cm pit and planting of 200 plants	Pit	200	17.22	3233.02	211.88	3444.89
	b. Planting of 800 grass slips and 200 pre-germinated plants, including local transport and watering	Plant	1000	3.13	2346.35	779.16	3125.51
10	Watering of 200 plants (4 times)	Plant	800	4.50	2497.14	1102.67	3599.81
11	Watering of 1000 grass slips/plants on trenches (3 times)	Plant	3000	2.46	5053.10	2334.06	7387.16
12	Weeding and hoeing of 200 plants	Plant	200	3.91	782.62	0.00	782.62
13	Application of urea and fertilizer (200 Plants)	Plant	200	0.69	95.00	42.15	137.15
14	Raising of 40 plants for casualty replacement	Plant	40	9.82	276.34	116.56	392.90
15	Running & Maintenance of Vehicles	Prorata	1	117.33	0.00	117.33	117.33
16	Maintenance of Engine.	Prorata	1	77.46	0.00	77.46	77.46
17	Labour amenities	Prorata	1	154.92	0.00	154.92	154.92
18	Watch & Ward for 12 months	Prorata	1	1780.87	1780.87	0.00	1780.87
19	Misc. and unforeseen expenditure	Prorata	1	96.06	52.78	43.29	96.06
TOTAL PLANTING YEAR 1					24049	6366	30415
YEAR 2 - MAINTANANCE-I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 40 plants in Nursery	Plant	40	2.37	75.41	19.53	94.94
2	Transportation of 40 plants from nursery to site for casualty replacement including loading and unloading(upto 5km)	Plant	40	2.13	78.41	6.83	85.25
3	Planting for casualty replacement including treatment, local transport and watering 40 Plants	Plant	40	13.45	494.60	43.29	537.89
4.	Irrigation -						
a	Before casualty replacement						
i	160 plants watering 1 time	Plant	160	4.48	497.62	219.85	717.47
ii	750 grass slips/plants on trenches - 1 watering	Plant	750	2.43	1245.56	579.81	1825.37
b	After casualty replacement				0.00	0.00	
i	200 plants- 2 waterings	Plant	400	4.49	1244.05	550.20	1794.24
ii	750 grass slips/plants on trenches - 1 watering	Plant	750	2.43	1244.05	580.95	1825.00
5	Running & Maintenance of Vehicles	Protata	1	117.33	0.00	117.33	117.33
6	Maintenance of Engine.	Protata	1	117.33	0.00	117.33	117.33
7	Labour amenities	Protata	1	195.93	0.00	195.93	195.93
8	Purchase of PVC pipes of 1 Inch dia	Protata	1	210.74	0.00	210.74	210.74
9	Watch & Ward for 12 months	Protata	1	1779.37	1779.37	0.00	1779.37
10	Miscellaneous and unforeseen expenditure	Protata	1	195.01	126.67	68.35	195.01
Total Year 2					6786	2710	9496

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YEAR 3 - MAINTENANCE-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1779.37	1779.37	0.00	1779.37
2	Irrigation of plants-						
	Watering - 2 times (180 plants)	Plant	360	4.49	1123.41	493.24	1616.65
3	Maintenance of Engine with oil etc.	Prorata	1	77.46	0.00	77.46	77.46
4	Miscellaneous and unforeseen expenditure	Prorata	1	77.37	64.84	12.53	77.37
Total Year 3					2968	583	3551

YEAR 4 : MAINTENANCE-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1779.37	1779.37	0.00	1779.37
2	Irrigation of plants-						
	Watering - 2 times (180 plants)	Plant	360	4.49	1123.41	493.24	1616.65
3	Maintenance of Engine with oil etc.	Prorata	1	77.46	0.00	77.46	77.46
4	Miscellaneous and unforeseen expenditure	Prorata	1	77.37	64.84	12.53	77.37
Total Year 4					2968	583	3551

YEAR 5 : MAINTENANCE-IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1779.37	1779.37	0.00	1779.37
2	Fencing repairing etc	Prorata	1	63.50	40.71	22.78	63.50
Total Year 5					1820	23	1843

YEAR 6 : MAINTENANCE-V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1779.37	1779.37	0.00	1779.37
2	Fencing repairing etc	Prorata	1	63.50	40.71	22.78	63.50
Total Year 6					1820	23	1843

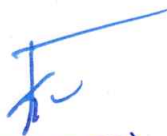
YEAR 7 : MAINTENANCE-VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 4 months	Prorata	1	594.13	594.13	0.00	594.13
2	Fencing repairing etc	Prorata	1	68.02	45.24	22.78	68.02
Total Year 7					639	23	662

Yearwise Cost Statement - silvi-pastoral plantation in IGNP area

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				10849	12276	23126
2	YEAR 1 - PLANTING YEAR				24049	6366	30415
3	YEAR 2 - MAINTENANCE I				6786	2710	9496
4	YEAR 3 - MAINTENANCE II				2968	583	3551
5	YEAR - 4 MAINTENANCE III				2968	583	3551
6	YEAR - 5 MAINTENANCE IV				1820	23	1843
7	YEAR - 6 MAINTENANCE V				1820	23	1843
8	YEAR - 7 MAINTENANCE VI				639	23	662
Grand Total					51899	22587	74486

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।


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कोड सं. 19337


(सेडूराम यादव)
मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

MODEL COST NORMS FOR BAMBOO CULTURE OPERATIONS (for old closure and Bamboo harvested area)

UNIT: 50 Ha. Labour rate Rs. 285/- per day COST IN Rs/Ha.

S.No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour	Material	Total Cost
YEAR 0 CULTURE OPERATION YEAR							
1	Survey, layout and collection of data for Microplanning. Preparation of microplan, management plan and Geo tagging & Recording of the cultural bamboo clumps	Prorata	1	718.54	665.00	53.54	718.54
2	Site Clearance & Weed removal	Prorata	1	575.29	521.75	53.54	575.29
3	Fencing			0.00	0.00	0.00	0.00
(a)	Dry Random Rubble Stone Wall Fencing 1.20 metre Height 0.80 Metre wide at base and 0.60 metre wide at Top (0.84 cubic metre for one running metre)	metre	5	359.10	1795.50	0.00	1795.50
(b)	Repair of fencing	metre	15	179.55	2693.25	0.00	2693.25
4.1	Cultural operation in mature bamboo clumps by " horse shoe" method:- Keeping the new healthy sprouted bamboo in the bamboo clump, the rest of the dried, dead, rotted & decayed are systematically cut and pulled out from the bamboo clump average 12 in the number including disposal of removed bamboo in nearby Nallah or Depot. Further the soil has to be excavated in 12 mtr L x 30 cm B x 30 cm H around the clump. (OR) Cultural operation in harvested Clump:- Keeping the new healthy sprouted bamboo in the bamboo clump, the rest of the dried, dead, rotted & decayed are systematically cut and pulled out from the bamboo clump average 12 in the number including disposal of removed bamboos in nearby nallah or depot. Making trench of 1.5 mtr L X 30 cm B x 30 cm H on upward slope. Dug up soil to be deposited on the surface of clump. Further excavating average 3 meter length and in a width of 30 cm and depth of 30 cm on lower slope around the clump. And /Or Cultural operation in harvested Clump in steep slope:- Keeping the new healthy sprouted bamboo in the bamboo clump, the rest of the dried, dead, rotted & decayed are systematically cut and pulled out from the bamboo clump average 12 in the number including disposal of removed bamboos in nearby nallah or depot. Making trench of 1.5 mtr L x 30 cm B x 30 cm H on upward slope. Dug up soil to be deposited on the surface of clump, Further making loose stone, semi-circular structure downward side with the minimum average width at bottom of size 30 cm, average height 20 cm and length 2.5 mtr. (Maximum 50 number per Hec.)	No of Clump	50 Average number per Hec. 150 Average number per Hec.	382.93	19146.72	0.00	19146.72
5	Planting of Bamboo Plants in the gaps 50 plants per Hec. (As per site requirement)				0.00	0.00	0.00
(a)	Procurement and transportation of Bamboo plants /Rhizomes.	No	50	15.97	0.00	798.45	798.45
(b)	Digging of pits of size 0.45 x 0.45 x 0.45cm	No	50	22.78	1138.90	0.00	1138.90
(c)	Planting of seedlings/Rhizomes including refilling of pits	No	50	5.20	260.24	0.00	260.24
(d)	Making of crescent shaped mounds below saplings/Rhizomes after planting	No	50	4.53	226.68	0.00	226.68
(e)	Weeding and Hoeing of plants two times and repairing of mounds (2 times)	No	100	4.53	453.36	0.00	453.36
6	DLT Works including repair of W.H.S Structure, Check dams etc.	Prorata	1	1629.11	990.35	638.76	1629.11
7	Construction of approach road and inspection path/Fireline	Prorata	1	660.23	660.23	0.00	660.23
8	Construction of thatched cattle guard hut using Bamboo / locally available material.	Prorata	1	326.90	231.08	95.81	326.90
9	Purchase of signboard and their fixing	Prorata	1	91.76	16.58	75.18	91.76
10	Construction of gate and its fixing	Prorata	1	394.03	200.27	193.76	394.03
11	Purchase of tools and plants	Prorata	1	64.93	0.00	64.93	64.93
12	Watch and ward for 6 months	Prorata	1	889.20	889.20	0.00	889.20
13	Admin, Misc and unforeseen expenses (@4%)	Prorata	1	1256.41	638.59	617.82	1256.41
Total					30527.69	2591.79	33119.48

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. ई. राज., जयपुर
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YEAR - 1							
S.No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour	Material	Total Cost
1	Repair of fencing	metre	10	179.55	1795.50	0.00	1795.50
2	Procurement and transportation of Bamboo plants /Rhizomes.	No	5	16.51	82.53	0.00	82.53
3	Casualty replacement (10%) including redigging of pits, transportation sapling/Rhizome & planting.	No	5	14.79	73.95	0.00	73.95
5	Watch and ward for 12 months	Prorata	1	1780.88	1780.88	0.00	1780.88
6	Admin, Misc and unforeseen expenses (@4%)	Prorata	1	146.89	74.66	72.23	146.89
Total					3807.51	72.23	3879.74
Grand Total					34335.20	2664.02	36999.22
Year wise Cost Statement							
S.No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour	Material	Total Cost
1	0 YEAR - Culture Operation year				30527.69	2591.79	33119
2	1st YEAR - Maintenance year				3807.51	72.23	3880
Grand Total					34335	2664	36999

नोट :- 1. मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मागदर्शक है।
 2. कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्यस्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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Model Cost Norms Shelter Belt

Labour rate Rs. 285/- per day

Unit - 10 Ha

Perimeter - Average 1400 RM

No. of Plants :500

Spacing 4MX5M (in interdunal Area)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEA							
1	Collection of data for microplanning, preparation of microplan and management plan	Prorata	1	445.86	355.87	89.99	445.86
2	Survey of area, alignment of pits for fencing posts, division of area into segments, preparation of treatment map, plantation Journal and card.	Prorata	1	583.22	475.00	108.22	583.22
3	Fencing of plantation area with 2.4 mt. Prestressed Concrete Post with welded wire mess and 4 strand barbed wire 140 M (only for Desert Area)	Meter	140	252.60	15565.62	22589.11	38154.73
4	Raising of plants 550 plants				0.00	0.00	0.00
a	Shady plants 55 Plants	Plant	55	16.55	589.75	320.55	910.30
b	Thorny Plants 495 Plants	Plant	495	5.51	1420.85	1307.29	2728.14
5	Digging of 500 pits ((0.4M+0.5M)/2)^2X0.45M)	Pit	500	2.03	1013.33	0.00	1013.33
6	Digging up Trenches :				0.00	0.00	0.00
b.	Construction of 50 M Contour Dykes/ Check dam gali ploughing with cross section 30x30 cm on upper slopes and sowing of suitable thorny shrub species along the inner side	35.06 / rmt	50	35	1928.98	0.00	1928.98
7	Purchase of 4 kg seeds/ ha. (dhaman kumat ,ber, sewan, etc.)	Kg.	4	113.91	0.00	455.65	455.65
8	Purchase of pesticides, nitrogen fertilisers, etc.	Prorata	1	806.50	0.00	806.50	806.50
9	Construction of Water Harvesting Structure/Nadi	Prorata	1	-	5771.53	0.00	5771.53
10	Construction of water storage tanks/Water harvesting structures and other SMC works	Prorata	1	8889.01	6089.05	2799.96	8889.01
11	Construction of cattle guard hut (Jhumpa)	Prorata	1	3263.58	2145.75	1117.83	3263.58
12	Running and Maintenance of Vehicles	Prorata	1	64.93	0.00	64.93	64.93
13	Purchase of plantation board, its painting and fixing on site.	Prorata	1	424.09	57.30	366.80	424.09
14	Construction of plantation gate (including purchase of material)	Prorata	1	3265.41	2151.25	1114.16	3265.41
15	Watch and Ward for 2 months.	Prorata	2	3231.33	592.62	0.00	592.62
16	Miscellaneous expenditure like labour amenities, tools and plants, etc.	Prorata			251.83	166.31	418.14
Total					38409	31307	69716.02

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YEA							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery-						
a	shady plants 55 Plants	Plant	55	2.85	172.49	53.71	226.19
b	thorny old 495 Plants	Plant	495	2.85	1552.37	353.78	1906.15
2	Raising of Plants for casualty replacement. 20%	Plant	110	9.02	1091.80	93.25	1185.05
3	Making and sowing of pellets / balls-(100 %)				0.00	0.00	
a	Making of pellets / balls total quantity will be 24 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	4	65.61	202.06	60.37	262.44
b	Sowing of pellets/ balls.	6 Kg.	4	285.00	1140.00	0.00	1140.00
4	Transportation of 550 plants from Nursery to Plantation site.	Plant	550	3.33	2015.36	469.32	2484.68
5	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1425.00	0.00	1425.00
6	5 M. distance plants rows in between Sowing of Treated Seeds by tractor disc plough/ manually(4kg)	5kg	5	400.00	2200.77	0.00	2200.77
7	Planting in sandy soil- Planting Activity				0.00	0.00	
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering (500 plants)	Plant	500	26.55	12467.62	805.36	13272.98
8	Plantating in interdunal area- Planting Activity				0.00	0.00	
	Includes local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala and initial watering (100 Plants)	Plant	100	23.89	2239.29	149.22	2388.51
9	Watering of 500 plants, four time in a year (15 liters per watering)				0.00	0.00	
a	on uneven sand dunes 300 Plants	Plant	900	8.00	7922.78	2072.06	9994.84
b	on even surface (three) 100 plants	Plant	300	8.00	2640.93	293.89	2934.82
c	on even surface from water in tanka (once)100 plants	Plant	100	8.00	880.31	0.00	880.31
10	Weeding & Hoeing of 500 plants in interdunal				0.00	0.00	
a	Weeding & Hoeing of plants after rains	Plant	500	4.60	2530.89	0.00	2530.89
b	Hoeing (three times) after every watering	Plant	1500	4.60	7592.66	0.00	7592.66
11	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	Prorata	1	1172.42	1067.62	104.80	1172.42
12	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
13	Running & Maintenance of Vehicles	Prorata	1	108.22	0.00	108.22	108.22
14	Miscellaneous expenditure like labour amenities, tools and plants, etc.	Prorata			75.40	214.15	289.55
Total					50773	4778	55551


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YEA							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery- 110 plants						
a	One year old 30 Plants	Plant	30	2.17	71.64	15.62	87.26
b	Six months old 80 Plants	Plant	80	2.85	250.89	64.32	315.21
2	Planting in sandy soil- Planting Activity				0.00	0.00	
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertilisers, making of Thanwala and initial watering (80 Plants)	Plant	80	26.55	1995.00	128.72	2123.72
3	Purchase of 2 kg seeds/ ha. (dhaman kumat ,ber, sewan, etc.)	2 Kg.	2	107.00	0.00	227.82	227.82
4	Making and sowing of pellets / balls-(50%)				0.00	0.00	
a	Making of pellets / balls total quantity will be 12 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	3	60.08	198.33	60.37	258.71
b	Sowing of pellets/ balls.	6 Kg.	3	259.00	855.00	0.00	855.00
5	Watering of 500 plants, thrice in a year (15 litres				0.00	0.00	
a	on sand dunes (three times) 300 plants	Plant	900	8.00	7922.78	3107.52	11030.30
b	on even surface/interdunal area (three times) 100 plants	Plant	300	8.00	2640.93	441.98	3082.91
c	on even surface from water in tanka (once) 100 plants	Plant	100	8.00	880.31	0.00	880.31
6	Weeding & Hoeing of plants in interdunal area				0.00	0.00	
a	Weeding & Hoeing of plants after rains	Plant	500	4.60	2530.89	0.00	2530.89
b	Hoeing (three times) after every watering	Plant	1500	4.60	7592.66	0.00	7592.66
7	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	prorata			1821.59	85.43	1907.02
8	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
9	Watch & ward	prorata			3555.71	0.00	3555.71
10	Running & Maintenance of Vehicles	prorata			0.00	85.43	85.43
11	Miscellaneous expenditure (labour amenities, Tool & plants, fencing repair, etc.	prorata			125.16	249.47	374.63
Total					30750	4467	35217

YEA							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Purchase of 2 kg seeds/ ha. (dhaman kumat ,ber, sewan, etc.)	1 Kg.	1	107.00	0.00	113.91	113.91
2	Making and sowing of pellets / balls-(25%)				0.00	0.00	
a	Making of pellets / balls total quantity will be 6 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	1	60.08	66.11	60.37	126.48
b	Sowing of pellets/ balls.	6 Kg.	1	259.00	285.00	0.00	285.00
3	Watering of 250 plants, 50% Plant once in a year (15 liters per watering)-				0.00	0.00	
a	on uneven sand dunes (125 Plants)	Plant	125	8.00	1100.39	274.53	1374.91
b	on even surface from water in tanka (125 Plants)	Plant	125	8.00	1100.39	0.00	1100.39
4	Weeding & Hoeing of plants in interdunal area-				0.00	0.00	
a	Hoeing after watering (250 plants)	Plant	250	2.83	778.52	0.00	778.52
5	Pruning (250 plants)	Plant	250	2.77	762.02	0.00	762.02
6	Watch & ward	prorata	1	3555.71	3555.71	0.00	3555.71
7	Miscellaneous expenditure	prorata	1	279.23	84.44	194.79	279.23
Total					7381	469	7851

YEA							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					3811	44	3855

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YEA							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					3811	44	3855

YEA							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					3811	44	3855

YEA							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward for 6 months	Prorata	1	1779.37	1779.37	0.00	1779.37
3	Miscellaneous expenditure	Prorata	1	105.92	55.79	50.12	105.92
Total					1835	50	1885
Grand Total					140580.09	41204.86	181785

Yearwise Cost Statement- shelter belt

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				38409	31307	69716
2	YEAR 1 - PLANTING YEAR				50773	4778	55551
3	YEAR 2 - MAINTENANCE I				30750	4467	35217
4	YEAR 3 - MAINTENANCE II				7381	469	7851
5	YEAR - 4 MAINTENANCE III				3811	44	3855
6	YEAR - 5 MAINTENANCE IV				3811	44	3855
7	YEAR - 6 MAINTENANCE V				3811	44	3855
8	YEAR - 7 MAINTENANCE VI				1835	50	1885
Grand Total					140580	41205	181785

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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Model Cost Norms Shelter Belt

Labour rate Rs. 285/- per day

Unit - 25 Ha

Perimeter - Average 2050 RM (625 MX400M)

No. of Plants :500

Spacing 4MX5M (in interdunal Area)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for microplanning, preparation of microplan and management plan	Prorata	1	445.86	355.87	89.99	445.86
2	Survey of area, alignment of pits for fencing posts, division of area into segments, preparation of treatment map, plantation Journal and card.	Prorata	1	583.22	475.00	108.22	583.22
3	Fencing of plantation area with 2.4 mt. Prestressed Concrete Post with welded wire mess and 4 strand barbed wire 82 M (only for Desert Area)	Meter	82	252.60	9117.01	13230.76	22347.77
4	Raising of plants 550 plants				0.00	0.00	
a	Shady plants 55 Plants	Plant	55	16.55	589.75	320.55	910.30
b	Thorny Plants 495 Plants	Plant	495	5.51	1420.85	1307.29	2728.14
5	Digging of 500 pits ((0.4M+0.5M)/2)^2X0.45M)	Pit	500	2.03	1013.33	0.00	1013.33
6	Digging up Trenches :				0.00	0.00	
a.	Construction of 50 M Contour Dykes/ Check dam gali ploughing with cross section 30x30 cm on upper slopes and sowing of suitable thorny shrub species along the inner side	35.06 / rmt	50	35	1928.98	0.00	1929
7	Purchase of 4 kg seeds/ ha. (dhaman kumat ,ber, sewan, etc.)	Kg.	4	113.91	0.00	455.65	455.65
8	Purchase of pesticides, nitrogen fertilisers,etc.	Prorata	1	806.50	0.00	806.50	806.50
9	Construction of Water Harvesting Structure/Nadi	Prorata	1	-	5771.53	0.00	5771.53
10	Construction of water storage tanks/Water harvesting structures and other SMC works	Prorata	1	8889.01	6089.05	2799.96	8889.01
11	Construction of cattle guard hut (Jhempa)	Prorata	1	1305.43	858.30	447.13	1305.43
12	Running and Maintenance of Vehicles	Prorata	1	64.93	0.00	64.93	64.93
13	Purchase of plantation board, its painting and fixing on site.	Prorata	1	424.09	57.30	366.80	424.09
14	Construction of plantation gate (including purchase of material)	Prorata	1	1316.96	1162.01	154.95	1316.96
15	Watch and Ward for 2 months.	Prorata	2	3231.33	592.62	0.00	592.62
16	Miscellaneous expenditure like labour amenities, tools and plants,etc.	Prorata			251.83	166.31	418.14
Total					29683	20319	50002


 आहरण एवं वितरण अधिकारी
 उप वन संरक्षक (प्रशासन)
 प्रधान मुख्य वन संरक्षक
 टी. आर. ई. ई., राज., जयपुर
 कोड सं. 19337


 (सेडूराम यादव)
 मुख्य वन संरक्षक (आयोजना)
 राजाराम, जयपुर

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YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery-						
a	shady plants 55 Plants	Plant	55	2.85	172.49	53.71	226.19
b	thorny old 495 Plants	Plant	495	2.85	1552.37	353.78	1906.15
2	Raising of Plants for casualty replacement. 20%	Plant	110	9.02	1091.80	93.25	1185.05
3	Making and sowing of pellets / balls-(100%)				0.00	0.00	
a	Making of pellets / balls total quantity will be 24 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	4	65.61	202.06	60.37	262.44
b	Sowing of pellets/ balls.	6 Kg.	4	285.00	1140.00	0.00	1140.00
4	Transportation of 550 plants from Nursery to Plantation site.	Plant	550	3.33	2015.36	469.32	2484.68
5	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1425.00	0.00	1425.00
6	5 M. distance plants rows in between Sowing of Treated Seeds by tractor disc plough/ manually(4kg)	5kg	5	400.00	2200.77	0.00	2200.77
7	Planting in sandy soil- Planting Activity				0.00	0.00	
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering (500 plants)	Plant	500	26.55	12467.62	805.36	13272.98
8	Plantating in interdunal area- Planting Activity				0.00	0.00	
	Includes local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala and initial watering (100 Plants)	Plant	100	23.89	2239.29	149.22	2388.51
9	Watering of 500 plants, four time in a year (15 liters per watering)				0.00	0.00	
a	on uneven sand dunes 300 Plants	Plant	900	8.00	7922.78	2072.06	9994.84
b	on even surface (three) 100 plants	Plant	300	8.00	2640.93	293.89	2934.82
c	on even surface from water in tanka (once)100 plants	Plant	100	8.00	880.31	0.00	880.31
10	Weeding &Hoeing of 500 plants in interdunal area-				0.00	0.00	
a	Weeding &Hoeing of plants after rains	Plant	500	4.60	2530.89	0.00	2530.89
b	Hoeing (three times) after every watering	Plant	1500	4.60	7592.66	0.00	7592.66
11	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	Prorata	1	1172.42	1067.62	104.80	1172.42
12	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
13	Running & Maintenance of Vehicles	Prorata	1	108.22	0.00	108.22	108.22
14	Miscellaneous expenditure like labour amenities, tools and plants,etc.	Prorata			75.40	214.15	289.55
Total					50773	4778	55551

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YEAR 2 - Maintenance I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery- 110 plants						
a	One year old 30 Plants	Plant	30	2.17	71.64	15.62	87.26
b	Six months old 80 Plants	Plant	80	2.85	250.89	64.32	315.21
2	Planting in sandy soil- Planting Activity				0.00	0.00	
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertilisers, making of Thanwala and initial watering (80 Plants)	Plant	80	26.55	1995.00	128.72	2123.72
3	Purchase of 2 kg seeds/ ha. (dhaman kumat ,ber, sewan, etc.)	2 Kg.	2	107.00	0.00	227.82	227.82
4	Making and sowing of pellets / balls-(50%)				0.00	0.00	
a	Making of pellets / balls total quantity will be 12 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	2	60.08	132.22	60.37	192.60
b	Sowing of pellets/ balls.	6 Kg.	2	259.00	570.00	0.00	570.00
5	Watering of 500 plants, thrice in a year (15 litres)				0.00	0.00	
a	on sand dunes (three times) 300 plants	Plant	900	8.00	7922.78	3107.52	11030.30
b	on even surface/interdunal area (three times) 100 plants	Plant	300	8.00	2640.93	441.98	3082.91
c	on even surface from water in tanka (once) 100 plants	Plant	100	8.00	880.31	0.00	880.31
6	Weeding & Hoeing of plants in interdunal area (500)				0.00	0.00	
a	Weeding & Hoeing of plants after rains	Plant	500	4.60	2530.89	0.00	2530.89
b	Hoeing (three times) after every watering	Plant	1500	4.60	7592.66	0.00	7592.66
7	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	prorata			1821.59	85.43	1907.02
8	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
9	Watch & ward	prorata			3555.71	0.00	3555.71
10	Running & Maintenance of Vehicles	prorata			0.00	85.43	85.43
11	Miscellaneous expenditure (labour amenities, Tool & plants, fencing repair, etc.	prorata			125.16	249.47	374.63
Total					30399	4467	34866
YEAR 3 - Maintenance II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Purchase of 2 kg seeds/ ha. (dhaman kumat ,ber, sewan, etc.)	1 Kg.	1	107.00	0.00	113.91	113.91
2	Making and sowing of pellets / balls-(25%)				0.00	0.00	
a	Making of pellets / balls total quantity will be 6 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	1	60.08	66.11	60.37	126.48
b	Sowing of pellets/ balls.	6 Kg.	1	259.00	285.00	0.00	285.00
3	Watering of 250 plants, 50% Plant once in a year (15 liters per watering)-				0.00	0.00	
a	on uneven sand dunes (125 Plants)	Plant	125	8.00	1100.39	274.53	1374.91
b	on even surface from water in tanka (125 Plants)	Plant	125	8.00	1100.39	0.00	1100.39
4	Weeding & Hoeing of plants in interdunal area-50%				0.00	0.00	
a	Hoeing after watering (250 plants)	Plant	250	2.83	778.52	0.00	778.52
5	Pruning (250 plants)	Plant	250	2.77	762.02	0.00	762.02
6	Watch & ward	prorata	1	3555.71	3555.71	0.00	3555.71
7	Miscellaneous expenditure	prorata	1	279.23	84.44	194.79	279.23
Total					7381	469	7851
YEAR 4 - Maintenance III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					3811	44	3855

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YEAR 5 - Maintenance IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					3811	44	3855
YEAR 6 - Maintenance V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					3811	44	3855
YEAR 7 - Maintenance VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward for 6 months	Prorata	1	1779.37	1779.37	0.00	1779.37
3	Miscellaneous expenditure	Prorata	1	105.92	55.79	50.12	105.92
Total					1835	50	1885
Grand Total					131503.67	30216.61	161720
Yearwise Cost Statement- shelter belt							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				29683	20319	50002
2	YEAR 1 - PLANTING YEAR				50773	4778	55551
3	YEAR 2 - MAINTENANCE I				30399	4467	34866
4	YEAR 3 - MAINTENANCE II				7381	469	7851
5	YEAR - 4 MAINTENANCE III				3811	44	3855
6	YEAR - 5 MAINTENANCE IV				3811	44	3855
7	YEAR - 6 MAINTENANCE V				3811	44	3855
8	YEAR - 7 MAINTENANCE VI				1835	50	1885
Grand Total					131504	30217	161720

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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पौध तैयारी - मॉडल 2

श्रम दर:- रु 285/- प्रति दिन

लागत अनुमान 1.00 लाख पौध तैयारी 10 सेमी X 15 सेमी (4 इन्च X 6 इन्च) 120 माइक्रोन पौलिथीन बैग्स

उद्देश्य- इस मॉडल का उद्देश्य 15 इन्च ऊँचाई तक के पौधे तैयार करना है जिनमें की मुख्यतः फुटान की हुई जड़ सहित कटिंग्स (प्री-रूटेड) को मदरबेड से इन पौलिथीन बैग्स में लिया जायेगा। मॉडल में बागवानी सम्बन्धित पौधों के अतिरिक्त वानिकी पौधे तैयार किये जायेगे। **इस मॉडल में तैयार किये जाने वाले पौधों का 6 माह तक पौधशाला में संधारण किया जायेगा।**

उपयुक्त प्रजातियाँ- नीम, करंज गोदा, हवन, सीताफल, गुलाब, कनेर, शहतुत, बागनवेल इत्यादि।

क्र.स.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	349 किग्रा पौलिथिन थैली बनाई व खरीद आकर 10 X 15 सेमी (4 इन्च X 6 इन्च), 120 माइक्रोन दर 150 रु किग्रा	0	55732	55732	0	0	0	0	55732	55732
2	10 मी X 1.0 मी X 0.15 मी. आकार की 35 क्यारिया तैयार कराना	8550	0	8550	0	0	0	8550	0	8550
3	बीज संग्रह करना/क्रय करना	2850	1067	3917	0	0	0	2850	1067	3917
4	फार्म यार्ड मेन्चौर (गोबर-मेगनी की खाद) 14 घमी क्रय करना दर 1434.40 रु/घमी	7445	16893	24339	0	0	0	7445	16893	24339
5	चिकनी मिटटी की व्यवस्था करना एवं पौधशाला में परिवहन करना 14 घमी दर 711.37 रु/घमी	1785	9910	11696	0	0	0	1785	9910	11696
6	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 14 घमी दर 534.06 रु/घमी	1350	7433	8783	0	0	0	1350	7433	8783
7	खाद, चिकनी मिटटी, रेत का मिश्रण बनवाना, पौलिथीन थैलियां भरवाना एवं थैलियों को क्यारी में जमवाना	51300	0	51300	0	0	0	51300	0	51300
8	मदरबेड तैयार कर उसमें बीज बुवाई, एवं कटिंग्स लगाना	20235	0	20235	0	0	0	20235	0	20235
9	मदरबेड से छोटे पौध एवं कटिंग्स निकालकर पौलिथिन थैलियों में लेना।	20235	0	20235	0	0	0	20235	0	20235
10	नर्सरी पर एक माली व दो श्रमिकों की बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं वर्मी कम्पोस्ट तैयार करने की मजदूरी	42750	0	42750	85500	0	85500	128250	0	128250
11	कीटनाशक दवा, जिप्सम एवं उर्वरक खरीद पर व्यय	0	2255	2255	0	1504	1504	0	3759	3759
12	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	8625	8625	0	2848	2848	0	11473	11473
13	बिजली पानी पर व्यय	0	15036	15036	0	25440	25440	0	40476	40476
14	जल संग्रह टैंक बनाना/क्रय करना मय पाईप खरीद व्यय	0	8543	8543	0	4272	4272	0	12815	12815
15	चौकीदारी पर व्यय	7410	0	7410	22230	0	22230	29640	0	29640
16	श्रमिक सुविधाओं पर व्यय	855	1504	2359	570	752	1322	1425	2255	3680
17	छाया हेतु सिरकी आदि क्रय करना	0	0	0	0	2255	2255	0	2255	2255
18	अन्य विविध व्यय	1138	902	2041	2565	1383	3948	3703	2285	5989
Total		165904	127902	293806	110865	38453	149318	276769	166355	443124

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

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पौध तैयारी - मॉडल 3

श्रम दर:- रु 285/- प्रति दिन

लागत अनुमान 1.00 लाख पौध तैयारी 15 सेमी X 22.5 सेमी (6 इन्च X 9 इन्च) 120 माइक्रोन पैलिथीन बैग्स

उद्देश्य- इस मॉडल का उद्देश्य छोड़ी पत्तियों वाली प्रजातियां जो की तीव्र गति से बढ़ती हैं के पौधे तैयार करना है। इन तैयार किये गये पौधों को 5 फिट तक के बड़े पौधे तैयार करने हेतु 20X40 सेमी की पोलिथीन बैग्स में भी ट्रान्सप्लान्ट किया जायेगा। इस मॉडल में तैयार किये जाने वाले पौधों का 6 माह तक पौधशाला में संधारण किया जायेगा।

उपयुक्त प्रजातियों - शीशम, हवन, पीपल, बरगद, इत्यादि

क्र.स.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	785 किग्रा पौलीथिन थैली बनाई व खरीद आकार 15 X 22.5 सेमी (6 इन्च X 9 इन्च), 120 माइक्रोन दर 150 रु किग्रा	0	125357	125357	0	0	0	0	125357	125357
2	10 मी X 1.0 मी X 0.25 मी. आकार की 81 क्यारियों तैयार कराना	31350	0	31350	0	0	0	31350	0	31350
3	बीज संग्रह करना/क्रय करना	2850	1067.4	3917.4	0	0	0	2850	1067	3917
4	फार्म यार्ड मेन्थोर (गोबर-मैगनी की खाद) 48 घमी क्रय करना दर 1434.40 रु/घमी	25529	57920	83449	0	0	0	25529	57920	83449
5	चिकनी मिटटी की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 711.37 रु/घमी	6119.2	33980	40099	0	0	0	6119	33980	40099
6	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 534.06 रु/घमी	4626.3	25484	30111	0	0	0	4626	25484	30111
7	खाद, चिकनी मिटटी, रेत का मिश्रण बनवाना, पौलीथीन थैलियां भरवाना एवं थैलियों को क्यारी में जमवाना	132789	0	132789	0	0	0	132789	0	132789
8	मदरबैड तैयार कर उसमें बीज बुवाई एवं कटिंग्स	20235	0	20235	0	0	0	20235	0	20235
9	मदरबैड से छोटे पौध एवं कटिंग्स निकालकर पौलिथीन थैलियों में लेना ।	20235	0	20235	0	0	0	20235	0	20235
10	नर्सरी पर एक माली व दो श्रमिकों की बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं वर्मी कम्पोस्ट तैयार करने की मजदूरी	71250	0	71250	142500	0	142500	213750	0	213750
11	पोलिथीन थैलियों का स्थान परिवर्तन करना व बाहर निकली जड़ों को काटकर हटवाना, दो बार	0	0	0	57000	0	57000	57000	0	57000
12	कीटनाशक दवा एवं उर्वरक खरीद पर व्यय	0	3007.3	3007.3	0	1541.2	1541.2	0	4549	4549
13	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	14809	14809	0	5695.6	5695.6	0	20504	20504
14	बिजली पानी पर व्यय	0	27339	27339	0	45565	45565	0	72904	72904
15	जल संग्रह टैंक बनाना/क्रय करना मय पाईप खरीद	0	17087	17087	0	5695.6	5695.6	0	22782	22782
16	चौकीदार पर व्यय	14820	0	14820	44460	0	44460	59280	0	59280
17	श्रमिक सुविधाओं पर व्यय	570	751.82	1321.8	855	1503.6	2358.6	1425	2255	3680
18	छाया हेतु सिरकी आदि क्रय करना	0	0	0	0	3973.3	3973.3	0	3973	3973
19	अन्य विविध व्यय	797.7	587.79	1385	1710	1015	2725	2508	1603	4110
Total		331171	307389	638561	246525	64989	311514	577696	372379	950075

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. ई., राज., जयपुर
कोड सं. 19337

(सेडूराम यादव)
मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

पौध तैयारी - मॉडल 4

श्रम दर:- रु 285/- प्रति दिन

लागत अनुमान 1.00 लाख पौध तैयारी 15 सेमी X 22.5 सेमी (6 इन्च X 9 इन्च) 120 माइक्रोन पैलिथीन बैग्स

उद्देश्य- इस मॉडल का उद्देश्य चौड़े पत्तों वाली प्रजातियों जिनकी सामान्यतया वृद्धि धीमी होती है, के पौधे तैयार करना है। इसी कारण से इसमें पैलिथीन बैग्स की मोटाई अधिक रखी गई है। इस मॉडल में तैयार किये जाने वाले पौधों को 12 माह तक पौधशाला में संभारण किया जायेगा।

उपयुक्त प्रजातियाँ - अमलतास, कंरंज, चुरेल, ईमली, सीताफल आदि

क्र.स.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	785 किग्रा पौलीथीन थैली बनाई व खरीद आकार 15 X 22.5 सेमी (6 इन्च X 9 इन्च), 120 माइक्रोन दर 150 रु/किग्रा	0	125356.65	125356.7	0	0	0	0	125357	125357
2	10 मी X 1.0 मी X 0.25 मी. आकार की 88 क्यारियों तैयार कराना	31350	0	31350	0	0	0	31350	0	31350
3	बीज संग्रह करना/क्रय करना	2850	1067.3573	3917.357	0	0	0	2850	1067	3917
4	फार्म यार्ड मेन्थोर (गोबर-मैगनी की खाद) 48 घमी क्रय करना दर 1434.40 रु/घमी	25529.4	57919.797	83449	0	0	0	25529	57920	83449
5	चिकनी मिटटी की व्यवस्था करना एवं पौधाशाला में परिवहन करना 48 घमी दर 711.37 रु/घमी	6119.21	33980.009	40099	0	0	0	6119	33980	40099
6	रेत की व्यवस्था करना एवं पौधाशाला में परिवहन करना 48 घमी दर 534.06 रु/घमी	4626.35	25484.437	30111	0	0	0	4626	25484	30111
7	खाद, चिकनी मिटटी, रेत का मिश्रण बनवाना, पौलीथीन थैलियां भरवाना एवं थैलियों को क्यारी में जमवाना	132789	0	132788.7	0	0	0	132789	0	132789
8	मदरबैड तैयार कर उसमें बीज बुवाई, एवं कटिंग्स लगाना	20235	0	20235	0	0	0	20235	0	20235
9	मदरबैड से छोटे पौध एवं कटिंग्स निकालकर पैलिथीन थैलियों में लेना ।	20235	0	20235	0	0	0	20235	0	20235
10	नर्सरी पर एक माली व दो श्रमिकों की बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं वर्मी कम्पोस्ट तैयार करने की मजदूरी	320628	0	320628	106875	0	106875	427503	0	427503
11	पैलिथीन थैलियों का स्थान परिवर्तन करना व बाहर निकली जड़ों को काटकर हटवाना, दो बार	57000	0	57000	57000	0	57000	114000	0	114000
12	कीटनाशक दवा जिप्सम एवं उर्वरक खरीद पर व्यय	0	4999.6065	4999.606	0	1503.64	1503.641	0	6503	6503
13	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संभारण व्यय	0	14808.586	14808.59	0	5695.61	5695.61	0	20504	20504
14	बिजली पानी पर व्यय	0	82016.784	82016.78	0	27338.9	27338.93	0	109356	109356
15	जल संग्रह टैंक बनाना/क्रय करना मय पाईप खरीद व्यय	0	17086.83	17086.83	0	5695.61	5695.61	0	22782	22782
16	चौकीदारी पर व्यय	66690	0	66690	22230	0	22230	88920	0	88920
17	श्रमिक सुविधाओं पर व्यय	855	4342.3331	5197.333	570	2878.56	3448.561	1425	7221	8646
18	छायां हेतु सिरकी आदि क्रय करना	0	0	0	0	4510.92	4510.923	0	4511	4511
19	अन्य विविध व्यय	1937.7	1075.3312	3013	1853.25	1202.91	3056	3791	2278	6069
Total		690844	368138	1058982	188528	48826	237354	879373	416964	1296337

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. राज. जयपुर
कोड सं. 19337

(से. डूराम यादव)
मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

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पौध तैयारी - मॉडल 5

श्रम दर:- रु 285/- प्रति दिन

लागत अनुमान 1.00 लाख पौध तैयारी 12.5 सेमी x 30 सेमी 120 माइक्रोन पौलिथीन बैग्स

उद्देश्य- इस मॉडल का उद्देश्य कॉटेदार शीघ्र वृद्धि वाली प्रजातियाँ व जिनकी मूसला जड़ मजबूत होती है, ऐसी प्रजातियों के पौधे तैयार करना है। इस मॉडल में तैयार किये जाने वाले पौधों को 6 माह तक पौधशाला में संधारण किया जायेगा।

उपयुक्त प्रजातियाँ - बेर, खैर, बबूल प्रजातियाँ, जंगल जलेबी, आंवला, हवन आदि

क्र.स.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	872 किग्रा पॉलीथीन थैली बनाई व खरीद आकर 12.5 X 30 सेमी 120 माइक्रोन दर 150 रु/किग्रा	0	139250	139250	0	0	0	0	139250	139250
2	10 मी X 1.0 मी X 0.30 मी. आकार की 60 क्यारियाँ तैयार कराना	25650	0	25650	0	0	0	25650	0	25650
3	बीज संग्रह करना/क्रय करना	2850	1067.4	3917.4	0	0	0	2850	1067	3917
4	फार्म यार्ड मेन्चौर (गोबर-मैगनी की खाद) 48 घमी क्रय करना दर 1434.40 रु/घमी	25529	57920	83449	0	0	0	25529	57920	83449
5	चिकनी मिटटी की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 711.37 रु/घमी	6119.2	33980	40099	0	0	0	6119	33980	40099
6	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 534.06 रु/घमी	4626.3	25484	30111	0	0	0	4626	25484	30111
7	खाद, चिकनी मिटटी, रेत का मिश्रण बनवाना, पॉलीथीन थैलियाँ भरवाना एवं थैलियों को क्यारी में जमवाना	132789	0	132789	0	0	0	132789	0	132789
8	मदरबैड तैयार कर उसमें बीज बुवाई एवं कटिंग्स लगाना	20235	0	20235	0	0	0	20235	0	20235
9	मदरबैड से छोटे पौध एवं कटिंग्स निकालकर पौलिथीन थैलियों में स्थानान्तरित करना।	20235	0	20235	0	0	0	20235	0	20235
10	नर्सरी पर एक माली व दो श्रमिकों की बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं वर्मी कम्पोस्ट तैयार करने की मजदूरी	71250	0	71250	142500	0	142500	213750	0	213750
11	पौलिथीन थैलियों का स्थान परिवर्तन करना व बाहर निकली जड़ों को कटवाना, दो बार	0	0	0	57000	0	57000	57000	0	57000
12	कीटनाशक दवा एवं उर्वरक खरीद पर व्यय	0	4999.6	4999.6	0	1541.2	1541.2	0	6541	6541
13	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	14809	14809	0	5695.6	5695.6	0	20504	20504
14	बिजली पानी पर व्यय	0	27339	27339	0	45565	45565	0	72904	72904
15	जल संग्रह टैंक बनाना मय पाईप खरीद व्यय	0	17087	17087	0	5695.6	5695.6	0	22782	22782
16	चौकीदारी पर व्यय	22230	0	22230	44460	0	44460	66690	0	66690
17	श्रमिक सुविधाओं पर व्यय	570	751.82	1321.8	858.016	1503.6	2362	1428	2255	3683
18	छायां हेतु सिरकी आदि क्रय करना	0	0	0	0	3007.3	3007.3	0	3007	3007
19	अन्य विविध व्यय	797.7	661.83	1460	1995	1315.7	3310.7	2793	1978	4770
Total		332882	323349	656230	246813	64324	311137	579695	387673	967367

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. ई., राज., जयपुर
कोड सं. 19337

(सेडूराम यादव)
मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

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पौध तैयारी - मॉडल 6

श्रम दर:- रु 285/- प्रति दिन

लागत अनुमान 1.00 लाख पौध तैयारी 12.5 सेमी x 30 सेमी 120 माइक्रोन पौलिथीन बैग्स

उद्देश्य- इस मॉडल का उद्देश्य काटेदार प्रजातियों जिनकी मूसला जड़ मजबूत होती है, परन्तु जिनकी सामान्यतया वृद्धि धीमी होती है, के पौधे तैयार करना है। इसी कारण से इसमें पौलिथीन बैग्स की मोटाई 40 माइक्रोन रखी गई। इस मॉडल में तैयार किये जाने वाले पौधों को 12 माह तक पौधशाला में संधारण किया जायेगा।

उपयुक्त प्रजातियाँ - रॉन्ड रोहिडा, विष तेन्दू, टिमरू आदि

क्र.स.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	872 किग्रा पौलिथीन थैली बनाई व खरीद आकर 12.5 X 30 सेमी 120 माइक्रोन दर 150 रु/किग्रा	0	139250	139250	0	0	0	0	139250	139250
2	10 मी (ल.) X 1.0 मी (चौ.) X 0.30 मी.(ग.) आकार की 60 क्यारियां तैयार कराना	25650	0	25650	0	0	0	25650	0	25650
3	बीज संग्रह करना/क्रय करना	2850	1067.4	3917.36	0	0	0	2850	1067	3917
4	फार्म यार्ड मेन्चौर (गोबर-मैगनी की खाद) 48 घमी क्रय करना दर 1434.40 रु/घमी	25529	57920	83449	0	0	0	25529	57920	83449
5	चिकनी मिटटी की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 711.37 रु/घमी	6119.2	33980	40099	0	0	0	6119	33980	40099
6	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 534.06 रु/घमी	4626.3	25484	30111	0	0	0	4626	25484	30111
7	खाद, चिकनी मिटटी, रेत का मिश्रण (1:1:1) बनवाना, पौलिथीन थैलियां भरवाना एवं थैलियों को क्यारी में जमवाना	132789	0	132789	0	0	0	132789	0	132789
8	मदरबैड तैयार कर उसमें बीज बुवाई, एवं कटिंग्स लगाना	20235	0	20235	0	0	0	20235	0	20235
9	मदरबैड से छोटे पौध एवं कटिंग्स निकालकर पौलिथीन थैलियों में लेना।	20235	0	20235	0	0	0	20235	0	20235
10	नर्सरी पर एक माली व दो श्रमिकों की बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं बर्मी कम्पोस्ट तैयार करने की मजदूरी	320628	0	320628	106875	0	106875	427503	0	427503
11	पौलिथीन थैलियों का स्थान परिवर्तन करना व बाहर निकली जड़ों को कटवाना, दो बार	57000	0	57000	57000	0	57000	114000	0	114000
12	कीटनाशक दवा एवं उर्वरक खरीद पर व्यय	0	4999.6	4999.61	0	1503.6	1503.64	0	6503	6503
13	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	14809	14808.6	0	5695.6	5695.61	0	20504	20504
14	बिजली पानी पर व्यय	0	82017	82016.8	0	27339	27338.9	0	109356	109356
15	जल संग्रह टैंक बनाना मय पाईप खरीद व्यय	0	17087	17086.8	0	5695.6	5695.61	0	22782	22782
16	चौकीदारी पर व्यय	66690	0	66690	22230	0	22230	88920	0	88920
17	श्रमिक सुविधाओं पर व्यय	0	3955	3955.03	0	1503.6	1503.64	0	5459	5459
18	छाया हेतु सिरकी आदि क्रय करना	0	3417.4	3417.37	0	4510.9	4510.92	0	7928	7928
19	अन्य विविध व्यय	1367.7	774.6	2142	1284.8	902.18	2187	2652	1677	4329
Total		683720	384760	1068480	187390	47151	234540	871109	431910.6	1303019.9

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

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राजस्थान, जयपुर

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पौध तैयारी - मॉडल 7

श्रम दर:- रु 285/- प्रति दिन

लागत अनुमान 1.00 लाख पौध तैयारी 20 सेमी × 40 सेमी, 120 माईक्रोन पौलिथीन बैग्स
उद्देश्य- इस मॉडल का उद्देश्य खुबसूरत, फलदार व छायादार जिनकी उचाई 5 फिट तक हो ऐसी प्रजातियों के पौधे तैयार करना है। नर्सरी मॉडल सं. 4 के अनुसार तैयार 15 X 22.5 सेमी की साईज की पौलिथीन बैग्स में तैयार पौधे 20 x 40 सेमी के पौलिथीन बैग्स में ट्रान्सप्लान्ट किये जायेगे। इस मॉडल में तैयार किये जाने वाले पौधो को 24 माह तक पौधशाला में संधारण किया जायेगा।

उपयुक्त प्रजातियाँ - नीम, गुलमोहर, करंज, अमलतास, ईमली, नीमचमेली, जकरन्डा, पेलटाफार्म आदि

क्र.स.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	15 सेमी X 22.5 सेमी (6 इन्च × 9 इन्च) के पौधे 12 माह के बेडस में तैयार करने पर व्यय	931872	374259	1306131	0	0	0	931872	374259	1306131
2	1862 किग्रा पौलिथीन थैलीयां बनाई व खरीद आकार 20. x 40 सेमी 120 माईक्रोन दर 150 रु/किग्रा	0	297343	297343	0	0	0	0	297343	297343
3	10 मी X 1.0 मी X 0.40 मी. आकार की 145 क्यारिया तैयार कराना	52566.7	0	52567	0	0	0	52567	0	52567
4	फार्म यार्ड मेन्थोर (गोबर-मैगनी की खाद) 109 घमी क्रय करना दर 1434.40 रु/घमी	57972.7	131526	189499	0	0	0	57973	131526	189499
5	चिकनी मिटटी की व्यवस्था करना एवं पौधशाला में परिवहन करना 109 घमी दर 711.37 रु/घमी	13895.5	77163	91059	0	0	0	13896	77163	91059
6	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 109 घमी दर 534.06 रु/घमी	10505.3	57871	68376	0	0	0	10505	57871	68376
7	खाद, चिकनी मिटटी, रेत का मिश्रण बनवाना, पौलिथीन थैलीयां भरवाना एवं थैलीयों को क्यारी में जमवाना	310653	0	310653	0	0	0	310653	0	310653
8	नर्सरी पर एक माली व दो श्रमिकों को बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं वर्मी कम्पोस्ट तैयार करने की मजदूरी	384753	0	384753	128250	0	128250	513003	0	513003
9	पौलिथीन थैलियों का स्थान परिवर्तन करना व बाहर निकली जड़ों को काटकर हटाना, दो बार	94050	0	94050	94050	0	94050	188100	0	188100
10	कीटनाशक दवा एवं उर्वरक खरीद पर व्यय	0	6015	6015	0	3007	3007	0	9022	9022
11	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	23001	23001	0	5750	5750	0	28751	28751
12	बिजली पानी पर व्यय	0	136695	136695	0	37970	37970	0	174665	174665
13	जल संग्रह टैंक बनाना/क्रय करना मय पाईप खरीद व्यय	0	11391	11391	0	3417	3417	0	14809	14809
14	चौकीदारी पर व्यय	64125	0	64125	21375	0	21375	85500	0	85500
15	श्रमिक सुविधाओं पर व्यय	2139.76	3383	5523	714.76	1128	1842	2855	4511	7365
16	छायां हेतु सिरकी आदि क्रय करना	0	0	0	0	3759	3759	0	3759	3759
17	अन्य विविध व्यय	1135.48	902	2038	568.49	451	1020	1704	1353	3057
Total		1923669	1119549	3043218	244958	55483	300441	2168627	1175032	3343659

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

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राजस्थान, जयपुर

Model Cost Norms Sand Dune Stabilisation

Labour rate Rs. 285/- per day

Unit - 25 Ha

Perimeter - Average 2050 RM (625 MX400M)

No. of Plants 600

Spacing 4MX5M (in interdunal Area)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for microplanning, preparation of microplan and management plan	Prorata	1	445.86	355.87	89.99	445.86
2	Survey of area, alignment of pits for fencing posts, division of area into segments, preparation of treatment map, plantation Journal and card.	Prorata	1	583.22	475.00	108.22	583.22
3	Fencing of plantation area with 1.5 mt. high Angle iron / RCC Post and 4 strand barbed wire / local thorny material or 1.50 m angle iron post and two lines of wire and 1.2 M broad welded wiremesh (details given at annexure "A" for Angle Iron, annexure "B" for RCC Post, C for wire mesh) 82 M	Meter	82	179.57	7349.68	7374.68	14724.36
4	Raising of plants						
a	One year old 110 Plants	Plant	110	9.82	759.93	320.55	1080.48
b	Six months old 550 Plants	Plant	550	5.71	1830.85	1307.29	3138.14
5	Purchase of pesticides, fertilisers, etc.	Prorata	1	806.50	0.00	806.50	806.50
6	Digging of 100 pits $((0.4M+0.5M)/2)^2 \times 0.45M$	Pit	100	10.13	1013.33	0.00	1013.33
7	Purchase of 4 kg seeds/ ha. (khimp, tumba, sonamukhi sewan, etc.)	Kg	4	113.91	0.00	455.65	455.65
8	Mulching on shifting dunes (on an average in 20% area) 800 m /Ha	Meter	800	13.92	11134.60	0.00	11134.60
9	Construction of water storage tanks/Water harvesting structures and other SMC works	Prorata	1	8889.01	6089.05	2799.96	8889.01
10	Construction of cattle guard hut (Jhumpa)	Prorata	1	413.72	285.00	128.72	413.72
11	Running and Maintenance of Vehicles	Prorata	1	64.93	0.00	64.93	64.93
12	Purchase of plantation board, its painting and fixing on site.	Prorata	1	424.10	57.30	366.80	424.10
13	Construction of plantation gate (including purchase of material)	Prorata	1	585.73	285.00	300.73	585.73
14	Purchase of material for watering purposes.	Prorata	1	97.96	0.00	97.96	97.96
15	Watch and Ward for 2 months.	Prorata	2	297.06	594.13	0.00	594.13
16	Miscellaneous expenditure like labour amenities, tools and plants, etc.	Prorata			251.83	166.31	418.14
Total					30482	14388	44870

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YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery-						
a	One year old 110 Plants	Plant	110	2.37	207.38	53.71	261.09
b	Six months old 550 Plants	Plant	550	3.11	1357.47	353.78	1711.25
2	Raising of Plants for casualty replacement.						
a	One year old 32 Plants	Plant	32	9.82	221.07	93.25	314.32
b	Six months old 100 Plants	Plant	100	5.71	332.88	237.69	570.57
3	Making and sowing of pellets / balls-						
a	Making of pellets / balls total quantity will be 24 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	4	65.61	202.06	60.37	262.44
b	Sowing of pellets/ balls.	6 Kg.	4	285.00	1140.00	0.00	1140.00
4	Transportation of 660 plants from Nursery to Plantation site.	Plant	660	3.64	1936.19	469.32	2405.51
5	Planting in sandy soil- Planting Activity						
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering (500 plants)	Plant	500	26.55	12467.62	805.36	13272.98
6	Plantating in interdunal area- Planting Activity						
	Includes local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala and initial watering (100 Plants)	Plant	100	23.89	2239.29	149.22	2388.51
7	Watering of 540 plants, twice in a year (15 liters per watering)						
a	on uneven sand dunes 450 Plants	Plant	900	15.59	11954.92	2072.06	14026.98
b	on even surface (twice) 90 plants	Plant	180	14.64	2341.83	293.89	2635.72
c	on even surface from water in tanka (once) 90 plants	Plant	90	9.75	877.62	0.00	877.62
8	Weeding & Hoeing of 90 plants in interdunal area-				0.00	0.00	
a	Weeding & Hoeing of plants after rains	Plant	90	5.06	455.40	0.00	455.40
b	Hoeing (three times) after every watering	Plant	270	3.12	842.94	0.00	842.94
9	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	Prorata	1	1172.42	1067.62	104.80	1172.42
10	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
11	Running & Maintenance of Vehicles	Prorata	1	108.22	0.00	108.22	108.22
12	Miscellaneous expenditure like labour amenities, tools and plants, etc.	Prorata			75.40	214.15	289.55
	Total				41275	5016	46291

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YEAR 2 - Maintenance I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery-						
a	One year old 32 Plants	Plant	32	2.37	60.33	15.62	75.95
b	Six months old 100 Plants	Plant	100	3.11	246.81	64.32	311.14
2	Transportation of 110 plants from Nursery to Plantation site.	Plant	110	3.65	322.70	78.60	401.30
3	Planting in sandy soil- Planting Activity						
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertilisers, making of Thanwala and initial watering (80 Plants)	Plant	80	26.55	1995.00	128.72	2123.72
4	Planting in interdunal area- Planting Activity				0.00	0.00	
	Includes re-digging of pits in interdunal area ; local transportation, treatment of pit with pesticides and fertilisers, making of Thanwala and initial watering (20 plants)	Plant	20	29.28	554.92	30.76	585.68
5	Watering of 540 plants, thrice in a year (15 litres per				0.00	0.00	
a	on sand dunes (three times) 450 plants	Plant	1350	15.59	17932.38	3107.52	21039.91
b	on even surface/interdunal area (three times) 90 plants	Plant	270	14.66	3515.00	441.98	3956.98
c	on even surface from water in tanka (once) 90 plants	Plant	90	9.75	877.62	0.00	877.62
6	Weeding & Hoeing of plants in interdunal area (90 plants)						
a	Weeding & Hoeing of plants after rains	Plant	90	5.06	455.40	0.00	455.40
b	Hoeing (four times) after every watering	Plant	360	3.12	1124.92	0.00	1124.92
7	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	prorata			1821.59	85.43	1907.02
8	Watch & ward	prorata			3555.71	0.00	3555.71
9	Running & Maintenance of Vehicles	prorata			0.00	85.43	85.43
10	Miscellaneous expenditure (labour amenities, Tool & plants, fencing repair, etc.	prorata			125.16	249.47	374.63
Total					32588	4288	36875
YEAR 3 - Maintenance II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of 250 plants, once in a year (15 liters per						
a	on uneven sand dunes (160 Plants)	Plant	160	15.88	2266.43	274.53	2540.96
c	on even surface from water in tanka (90 Plants)	Plant	90	9.75	877.62	0.00	877.62
2	Weeding & Hoeing of plants in interdunal area-						
	Hoeing after watering	Plant	90	3.12	280.48	0.00	280.48
3	Pruning (90 plants)	Plant	90	3.05	274.44	0.00	274.44
4	Watch & ward	prorata	1	3555.71	3555.71	0.00	3555.71
5	Miscellaneous expenditure	prorata	1	279.23	84.44	194.79	279.23
Total					7339	469	7808

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YEAR 4 - Maintenance III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
2	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					3811	44	3855
YEAR 5 - Maintenance IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
2	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					3811	44	3855
YEAR 6 - Maintenance V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
2	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					3811	44	3855
YEAR 7 - Maintenance VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward for 6 months	Prorata	1	1777.86	1777.86	0.00	1777.86
2	Miscellaneous expenditure	Prorata	1	304.96	254.84	50.12	304.96
Total					2033	50	2083
Grand Total					125147.99	24344.70	149493

Yearwise Cost Statement- Sand Dune Stabilisation

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				30482	14388	44870
2	YEAR 1 - PLANTING YEAR				41275	5016	46291
3	YEAR 2 - MAINTENANCE I				32588	4288	36875
4	YEAR 3 - MAINTENANCE II				7339	469	7808
5	YEAR - 4 MAINTENANCE III				3811	44	3855
6	YEAR - 5 MAINTENANCE IV				3811	44	3855
7	YEAR - 6 MAINTENANCE V				3811	44	3855
8	YEAR - 7 MAINTENANCE VI				2033	50	2083
Grand Total					125148	24345	149493

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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Model Cost Norms for Fuelwood plantation

Labour rate Rs. 285/- per day

Unit- 50 Ha

Perimeter - Average 3000 RM (1000 MX500M)

No. of Plants- 500

Spacing- 4MX5M

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata	1	548.35	518.73	29.62	548.35
2	Survey of area, Layout of contour trenches/Furrows, Pits and marking of segments/plots	Prorata	1	575.28	521.75	53.54	575.28
3	Ditch fencing 1.20 m deep, 1.50m Wide at Top and 0.90 m at Bottom 90m in length	Meter	90	308.84	27795.79	0.00	27795.79
4	Digging of 300m contour trenches of 45cm x 45 cm cross section	Meter	300	35.60	10680.71	0.00	10680.71
5	Cost of raising 880 seedlings	Plant	880	7.76	4504.39	2328.03	6832.42
6	Digging of 400 Pits size 0.45 X (0.4+0.5)/2 cum	Pit	400	18.10	7238.10	0.00	7238.10
7	Cost of collection and purchase of grass and other seeds	Kg.	2.5	113.91	0.00	284.78	284.78
8	Construction of Thatched cattle guard hut	Prorata	1	801.09	643.89	157.20	801.09
9	Construction of water storage tank	Prorata	1	1073.26	969.60	103.66	1073.26
10	Purchase of tools and plants	Prorata	1	193.65	0.00	193.65	193.65
11	Labour amenities	Prorata	1	578.01	407.14	170.87	578.01
12	Watch and ward charges for 4 Months	Prorata	1	594.13	594.13	0.00	594.13
13	Provision for additional fencing based on actual requirement	Prorata	1	15438.25	15438.25	0.00	15438.25
14	Misc. and unforeseen expenses including running of vehicles	Prorata	1	369.50	309.13	60.37	369.50
TOTAL 0 YEAR					69622	3382	73003
YEAR 1 PLANTATION YEAR							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maint. of 880 seedlings in Nursery	Plant	880	2.74	1915.50	497.87	2413.37
2	Digging of 400 pits size 0.45x (0.4 + 0.5)/2 cum	Pit	400	18.10	7238.10	0.00	7238.10
3	Sowing/Dibbing of seeds of grass thorny bushes on trench mound V-ditch Fencing in three lines. 390 meter	Meter	390	0.63	247.30	0.00	247.30
4	Sowing of grass seeds including raking in the interspaces	Prorata	1	1333.56	1204.84	128.72	1333.56
5	Transport of 800 seedlings from Nursery to planting site	Plant	800	1.73	1348.10	35.31	1383.41
6	Planting of 800 seedlings including refilling of pits	Plant	800	5.19	4149.84	0.00	4149.84
7	Construction of crescent shaped mounds below the planting pits 800 plants	Plant	800	4.54	3631.11	0.00	3631.11
8	Weeding and Hoeing of 800 plants- Two times and repairing of mounds	Plant	1600	4.54	7262.22	0.00	7262.22
9	One hoeing of 800 plants	Plant	800	2.61	2086.98	0.00	2086.98
10	Cost of raising 88 plants in Nursery for casualty replacement in year 2	Plant	88	7.76	450.44	232.80	683.24
11	Watch and Ward charges for 12 Months	Prorata	1	1780.87	1780.87	0.00	1780.87
12	Cost of insecticide and Fertiliser & its application	Prorata	1	4371.04	3647.70	723.34	4371.04
13	Labour amenities etc.	Prorata	1	181.01	120.63	60.37	181.01
14	Weeding on contour trenches/V-ditches and espacement/singling- (407 rmt)	Meter	407	2.20	895.71	0.00	895.71
15	In situ Soil & Moisture Conservation measures like Check dams/Nadis, Earthen Bunds etc.	Prorata	1	855.00	855.00	0.00	855.00
16	Construction of approach roads/inspection path	Prorata	1	309.13	309.13	0.00	309.13
17	Construction of gate and fixing of sign boards	Prorata	1	1051.16	665.00	386.16	1051.16
18	Misc. and unforeseen expences including (additional watering, fencing and frost protection measures and running of vehicles etc.)	Prorata	1	265.92	193.02	72.90	265.92
TOTAL YEAR 1					38001	2137	40139

आहरण एवं वितरण अधिकारी

उप वन संरक्षक (प्रशासन)

प्रधान मुख्य वन संरक्षक

टी. आर. ई. ई. राज., जयपुर

कोड सं. 19337

(सेडूरीम यादव)

मुख्य वन संरक्षक (आयोजना)

राजस्थान, जयपुर

YEAR 2 : MAINTENANCE-I							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 88 Plants in Nursery	Plant	88	2.74	191.55	49.79	241.34
2	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
3	Casualty replacement of 80 plants including Redigging of Pits, Transportation, Planting, watering and application of insecticides	Plant	80	15.38	1230.48	0.00	1230.48
4	Two weedings and hoeings in 800 Plants and repairing of plant mounds	Plant	1600	4.54	7262.22	0.00	7262.22
5	Watch and Ward charges for 12 Months	Prorata	1	1780.87	1780.87	0.00	1780.87
6	Misc. and unforeseen expenditure including (repairing of structures, pruning and frost protection measures)	Prorata	1	313.63	211.11	102.52	313.63
TOTAL YEAR 2					10985	152	11138
YEAR 3 : MAINTENANCE-II							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges for 12 Months	Prorata	1	1780.87	1780.87	0.00	1780.87
2	Misc. and Unforeseen expenses	Prorata	1	217.94	159.84	58.10	217.94
TOTAL YEAR 3					1941	58	1999
YEAR 4 : MAINTENANCE-III							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges for 12 Months	Prorata	1	1780.87	1780.87	0.00	1780.87
2	Misc. and Unforeseen expenses	Prorata	1	217.94	159.84	58.10	217.94
TOTAL YEAR 4					1941	58.10	1999
Grand Total					122490	5788	128278

Yearwise Cost Statement Fuelwood plantation

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				69622	3382	73003
2	YEAR 1 - PLANTING YEAR				38001	2137	40139
3	YEAR 2 - MAINTENANCE I				10985	152	11138
4	YEAR 3 - MAINTENANCE II				1941	58	1999
5	YEAR - 4 MAINTENANCE III				1941	58	1999
Grand Total					122490	5788	128278

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. ई., राज., जयपुर
कोड सं. 19337

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मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

Closure for Biodiversity Conservation

Unit : 50 Ha

Labour rate Rs. 285/- per day

Perimeter:60 M/Ha

Cost Estimate: Rs. /Ha

Year- 0- Advance Action

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Collection of data for Microplanning, preparation of	Prorata	1	718.54	665.00	53.54	718.54
1	Survey of area, Layout of Pits and marking of	Prorata	1	575.28	521.75	53.54	575.2848
2	Fencing by stone wall and or by ditch.					0.00	
a	Stone wall fencing 1.20m high 0.80m at base & 0.60 at top(on an average 30m/ha.)	Meter	30	285.00	8550.00	0.00	8550.00
b	Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom(on an average 30m/ha.)	Meter	30	309.03	9270.79	0.00	9270.79
3	Digging up 400 rmt Staggered Contour Trenches	Meter	400	35.61	14242.46	0.00	14242.46
4	Cost of collection and purchase of seeds/cuttings of	Prorata	1	234.66	0.00	234.66	234.66
5	In situ Soil & Moisture Conservation measures like Check dam, Percolation Tanks, Earthen Bunds etc.	Prorata	1	7540.33	7239.60	300.73	7540.33
6	Purchase of tools and plants	Prorata	1	127.58	0.00	127.58	127.58
7	Labour amenities	Prorata	1	233.83	220.16	13.67	233.83
8	Watch & ward for 4 months	Prorata	1	594.13	594.13	0.00	594.13
9	Restoration of Natural regeneration by cutback, cultural operation, and by making crescent shaped ridges on lower side of seedling and saplings	Prorata	1	2850.00	2850.00	0.00	2850.00
10	Construction of approach road inspection path and walking trail	Prorata	1	1809.24	639.37	1169.88	1809.24
11	Misc. and unforeseen expenses including running of vehicles	Prorata	1	418.45	313.65	104.80	418.45
TOTAL YEAR 0					45107	2058	47165

YEAR- I

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	In situ Soil & Moisture Conservation measures like Check dam, Nadis, Earthen Bunds etc.	Prorata	1	3700.37	3504.44	195.93	3700.37
2	Digging of 30cmx30cm cross section trench along inner side of stone wall fencing and seed sowing	Meter	30	30.99	918.33	11.39	929.72
3	Sowing/dibbling of seeds of shrubs including seeds of medicinal plants on the mounds of trench/ditch fencing- 430 m	Meter	430	0.74	318.17	0.00	318.17
4	Two times Weeding and Hoeing on trenches and V ditches	Prorata	1	1562.22	1562.22	0.00	1562.22
5	Watch & ward for 12 months	Prorata	1	1779.37	1779.37	0.00	1779.37
6	Construction of gate and fixing of sign boards	prorata	1	711.47	645.40	66.07	711.47
7	Misc. and unforeseen expences including (fencing repair, protection measures and running of vehicles etc.)	prorata	1	369.49	257.86	111.63	369.49
TOTAL YEAR 1					8986	385	9371

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राजस्थान, जयपुर

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YEAR 2 MAINTENANCE							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	285.00	285.00	0.00	285.00
2	Weeding and Hoeing	Prorata	1	781.11	781.11	0.00	781.11
3	Watch & ward for 12 months	Prorata	1	1780.87	1780.87	0.00	1780.87
4	Misc. and unforeseen expences including (protection measures, running of vehicles etc.)	prorata	1	347.27	232.22	115.05	347.27
TOTAL YEAR 2					3079	115.05	3194
Grand Total					57172	2558	59730

Yearwise Cost Statement

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				45107	2058	47165
2	YEAR 1 - PLANTING YEAR				8986	385	9371
3	YEAR 2 - MAINTENANCE I				3079	115	3194
Grand Total					57172	2558	59730

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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राजस्थान, जयपुर

MODEL COST ESTIMATES FOR PRODUCTIVITY ENHANCEMENT OPERATIONS

UNIT ; 50 Ha.

PERIMETER ; 60 M/Ha.

Labour rate Rs. 285/- per day

COST ESTIMATE IN Rs./Ha.

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
Year 0 ADVANCE ACTION							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata	1	718.54	665.00	53.54	718.54
2	Survey and layout	Prorata	1	575.28	521.75	53.54	575.28
3	Fencing -				0.00	0.00	
a	Dry random rubble stone wall fencing 1.20 metre Height, 0.80 metre wide at base and 0.60 metre wide at Top (0.84 cubic metre for one running metre) on an Average 30 metre per Ha	Meter	30	285.00	8550.00	0.00	8550.00
b	Ditch fencing 1.20 metre deep, 1.50 metre wide at top and 0.80 metre at bottom-on an average 30 metre per Ha	Meter	30	309.03	9270.79	0.00	9270.79
4	Cultural operations in bamboo clumps and Inducing root suckers (in indegenous plants like tendu, salar, shyonak, padal, etc.) by making 10 m long trenches of 20 cmX20 cm on downward slope (in all 150 plants to be treated)	Plant	150	80.76	12113.25	0.00	12113.25
5	Cutback/singling of stumps and restoration of Natural regeneration of other species	Prorata	1	2375.00	2375.00	0.00	2375.00
6	Construction of loose rubble stone check dams	Prorata	1	4120.47	4011.11	109.36	4120.47
7	Construction of approach road and inspection path	Prorata	1	310.63	310.63	0.00	310.63
8	Construction of thatched cattleguard hut	Prorata	1	230.84	161.35	69.49	230.84
9	Purchase of signboard and their fixing	Prorata	1	91.77	16.59	75.18	91.77
10	Construction of gate and its fixing	Prorata	1	174.40	88.97	85.43	174.40
11	Purchase of tools and plants	Prorata	1	64.93	0.00	64.93	64.93
12	Watch and ward for 6 months	Prorata	1	889.68	889.68	0.00	889.68
13	Miscellaneous and unforeseen expenses	Prorata	1	301.13	206.59	94.55	301.13
Total					39181	606.01	39787
YEAR-1							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	297.53	285.00	12.53	297.53
2	Watch and ward for 12 months	Prorata	1	1780.87	1780.87	0.00	1780.87
3	Miscellaneous and unforeseen expenses	Prorata	1	135.80	70.87	64.93	135.80
Total					2137	77.46	2214
Grand Total					41317	683	42001

Yearwise Cost Statement

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				39181	606.01	39787
2	YEAR 1 - PLANTING YEAR				2137	77.46	2214
Grand Total					41317	683.47	42001

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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राजस्थान, जयपुर

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Model Cost Norms for Enrichment of Old RDF Plantations

Labour rate Rs. 285/- per day

Unit - 50 Ha

No. of Plants - 100

Perimeter - Average 3000 RM (1000 MX500M)

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata	1	718.54	665.00	53.54	718.54
2	Survey of area, Layout of contour trenches/Furrows, Pits and marking of segments/plots	Prorata	1	575.28	521.75	53.54	575.28
3	Fencing by stone wall and/ or by ditch.				0.00	0.00	
a	Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha.)	Meter	30	142.50	4275.00	0.00	4275.00
b	Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	Meter	30	154.51	4635.29	0.00	4635.29
4	Cost of raising 110 seedlings	Plant	110	9.80	758.33	319.79	1078.12
					0.00	0.00	
5	Digging up Trenches :				0.00	0.00	
a.	Digging up 150 rmt Staggered Contour Trenches with cross section size: $0.6 \times ((1.05 + 0.45)/2)$ Sqmt. in area with 6-20% slop (assuming 30% area falls in this category).	Meter	150	79.19	11878.40	0.00	11878.40
b.	Digging up 160 rmt Continuous Contour Trenches with cross section size: $0.6 \times ((1.70 + 0.5)/2)$ Sqmt. in area with 3-6% slop (assuming 40% area falls in this category).	Meter	160	116.14	18581.72	0.00	18581.72
c.	Digging up 40 rmt Deep Continuous Contour Trenches with cross section size: $1.0 \times ((1.50 + 0.5)/2)$ Sqmt. in area with 0-3% slop (assuming 30% area falls in this category).	Meter	40.0	175.96	7038.51	0.00	7038.51
6	Digging of 100 pits size: $0.45 \times ((.4 + .5)/2)$ cum (Preferably on the bunds of water harvesting structures)	Plant	100	22.30	2230.23	0.00	2230.23
7	Cost of collection and purchases of grass and other seeds	Prorata			0.00	455.65	455.65
8	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1425.00	0.00	1425.00
9	In situ Soil & Moisture Conservation measures like Check dam, Nadis, Earthen Bunds etc.	Prorata			6031.79	0.00	6031.79
10	Construction of Thatched cattle guard hut.	Prorata			285.00	38.73	323.73
11	Purchase or construction of Water storage Tank	Prorata			0.00	64.93	64.93
12	Purchase of tools and plants	Prorata			0.00	96.83	96.83
13	Labour amenities	Prorata			104.05	75.18	179.23
14	Watch and Ward for 4 months	Prorata			594.13	0.00	594.13
15	Misc. and unforeseen expenses including running of vehicles	Prorata			269.92	50.12	320.04
Total 0 year					59294	1208	60502

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राजस्थान, जयपुर

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YEAR : 1 PLANTATION YEAR							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 110 seedling in nursery	Plant	110	2.35	206.13	51.87	257.99
2	In situ Soil & Moisture Conservation measures like Check dam, Nadis, Earthen Bunds etc.	Prorata			3230.00	214.15	3444.15
3	Digging of 30cmx30cm cross section trench along inner side of stone wall fencing and seed sowing (30 M / Ha)	Meter	30	23.78	713.25	0.00	713.25
4	Sowing/dibbling of seeds of grass, trees and shrubs including seeds of medicinal plants on the mounds of trench/ditch fencing (380 M)	Meter	380	0.74	281.17	0.00	281.17
5	sowing of grass seeds including raking in the interspace	Prorata			645.40	0.00	645.40
6	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1425.00	0.00	1425.00
7	Transportation of 100 plants from nursery to planting site	Plant	100	1.62	137.23	25.06	162.29
8	Planting of 100 seedlings including Refilling of pits	Plant	100	5.13	501.39	11.96	513.35
9	Purchase and application of insecticide and fertilizer in 100 plants	Plant	100	5.37	437.31	99.67	536.99
10	Making of crescent shaped mounds below planted sapling after planting and dibbling of 3 seeds of thorny tree species (100 saplings).	Plant	100	4.52	452.38	0.00	452.38
11	Weeding and Hoeings of 100 plants two time repairing plants mound	Plant	200	4.52	904.77	0.00	904.77
12	Weeding on Contour Trench and espacement /singling	Prorata			586.59	0.00	586.59
13	Raising of 20% Plants (20 plants) in Nursery for casualty replacement in year 2	Plant	20	9.80	137.88	58.14	196.03
14	Watch and ward charges for 12 months	Prorata			1780.87	0.00	1780.87
15	Labour hut etc	Prorata			413.17	43.29	456.46
16	Construction of approach roads/inspection path	Prorata			484.05	0.00	484.05
17	Construction of gate and fixing of sign boards	Prorata			645.40	74.04	719.44
18	Misc. and unforeseen expences including (additional watering, fencing and frost protection measures and running of vehicles etc.)	Prorata			275.95	230.10	506.06
TOTAL YEAR 1					13257.94	808.29	14066

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(से. डू. रा. ग. यादव)
मुख्य वन संरक्षक (आयोजना)
राज. व. भा. ग., जयपुर

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YEAR 2 : MAINTENANCE-I							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 20 plants in nursery	Plant	20	2.35	37.48	9.43	46.91
2	Repair of Fencing	Prorata			285.00	0.00	285.00
3	Casualty replacement of 20 plants (20%) including redigging of pits, transportation planting, watering and application of insecticide	Plant	20	14.76	285.00	10.25	295.25
4	Weeding and Hoeing in 100 plants two times and repairing of plant mounds	Plant	200	4.52	904.77	0.00	904.77
5	Watch and ward charges for 12 months	Prorata			1780.87	0.00	1780.87
6	Misc. and Unforeseen expenses including (Repair of Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			247.30	131.00	378.30
TOTAL YEAR 2					3540	151	3691

YEAR 3 : MAINTENANCE-II							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1780.87	0.00	1780.87
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			520.24	131.00	651.24
TOTAL YEAR 3					2301	131	2432

YEAR 4 : MAINTENANCE-III							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1780.87	0.00	1780.87
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			520.24	136.69	656.93
TOTAL YEAR 4					2301	137	2438

Yearwise Cost Statement

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				59294	1208	60502
2	YEAR 1 - PLANTING YEAR				13258	808	14066
3	YEAR 2 - MAINTENANCE I				3540	151	3691
4	YEAR 3 - MAINTENANCE II				2301	131	2432
5	YEAR - 4 MAINTENANCE III				2301	137	2438
Grand Total					80695	2435	83130

- नोट :- 1. यह मॉडल पुराने प्लान्टेशन पर लागू किया जायेगा जो कि 6 साल से पुराने हो एवं जिनमें पूर्व में दीवार / डिच फैनसिंग की गई थी। अतः इस मॉडल में स्टोन/डिच फैनसिंग के लिये रिपेयर की दर रखी गई है।
2. क्षेत्र में जो 100 पौधे लगाये जाने हैं उन्हें यथा संभव जल संग्रहण संरचनाओं पर लगाया जावे।
3. डीप सीसीटी, सीसीटी एवं स्टेगर्ड कन्टूर ट्रेन्च बनाते समय क्षेत्र में विद्यमान पेड़ों को क्षति नहीं पहुंचाई जाये।
4. मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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राजस्थान, जयपुर

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MODEL COST ESTIMATE FOR COMPENSATORY AFFORESTATION ON DEGRADED FOREST LAND (CA-DFL)

UNIT : 05 Ha
PERIMETER: 180 M/Ha.
LABOUR RATE: Rs. 285/Man
COST ESTIMATE: in Rs./Ha.

0 YEAR (ADVANCE ACTION)

S.No.	ITEM OF WORK	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest management activities.	1437.75/ha.	1329.99	107.76	1437.75
2	Survey of area, layout of contour trenches, burrow pits and making of segments / plots	845.92/ha.	763.82	82.10	845.92
3	Fencing by Barwad wire, stone wall and or by ditch.				
	a.) Loose Stone wall fencing 1.20 m high 0.80 m at base & 0.60 at top (on an average 60 m/ha.)	409.29/rmt	24557.32	0.00	24557.32
	b.) Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 60m/ha.)/Barwad wire fencing	308.88/rmt	18532.70	0.00	18532.70
	c) Fencing of the plantation area with 2.1 meter high prestressed Cement Concrete Post and 5 stand barbed wire (Details given at annexure "A" for PCC post and annexure B for fencing details) (60m/ha.)	214.35/rmt	2640.93	10220.16	12861.09
4	Layout of staggered /contineous contour trenches, v-ditch, contour dykes and pits etc. by contour survey in the area	89.65/ha.	89.65	0.00	89.65
5	Digging up 200 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	35.63/rmt	7126.10	0.00	7126.10
6	Digging of 400 pits size: 0.45x(0.4+0.5/2)2 cum	22.30/pit	8921.93	0.00	8921.93
7	Cost of collection and purchase of grass and other seeds of trees and shrubs (3 kg grass seed and 3 kg tree species seed)	Prorata	0.00	266.15	266.15
8	In situ Soil and moisture Conservation works including check dams, percolation tank, earthen bund etc.	Prorata	5463.60	0.00	5463.60
9	Construction of Thatched cattle guard hut/shade	Prorata	429.15	223.57	652.72
10	Construction of water storage tank.	Prorata	89.65	51.26	140.91
11	Labour amenities	Prorata	104.37	91.13	195.50
12	Watch and ward for 4 months @ 285 per day	Prorata	6934.63	0.00	6934.63
13	Construction of the pillars of appropriate size for gate.	Prorata	90.99	103.66	194.65
14	Construction of approach road / inspection path	Prorata	484.17	0.00	484.17
15	Purchase of signboards & fixing at site	Prorata	36.13	97.96	134.09


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16	Misc. and unforeseen expenses including POL for vehicles	Prorata	317.11	115.05	432.16
	TOTAL YEAR 0		77912.24	11358.80	89271.04
18	Administrative charges 10%				8927.10
				Total	98198.14
	YEAR I (PLANTING YEAR)				
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Purchasing and Maintenance of 770 plants	42.58/plant	0.00	32789.68	32789.68
3	Digging of 300 pits of size 0.45 (4+5/2)*2 Cum	22.30/pit	6691.45	0.00	6691.45
4	Sowing/dibbling of seeds of grass /thorny trees species on the mounds of contour trench and ditch fencing etc. (200 m / ha.)	0.64/m	127.64	0.00	127.64
5	Purchase and application of insecticides, fertilizer, plant growth hormone etc. in 1000 plants	3.77/plant	3064.60	701.55	3766.15
6	Sowing of pellats of grass/piece of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1113.24	66.07	1179.31
7	Restoration of natural regeneration by making crescent shapad mounds on the lower slopes of seedling and sapling and making ring tranches around the natural trees / shrubs.	Prorata	1425.00	0.00	1425.00
8	Transportation of 770 plants from nursery to planting site in cluding loading and unloading	4.01/plant	2879.20	206.49	3085.69
9	Planting of 700 seedlings including Refilling of pits	8.53/plant	5969.59	0.00	5969.59
10	Making of 700 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	7.93/plant	5545.95	0.00	5545.95
11	Watering with insecticide to the plants . (2 times) for 700 plants (Total 1400 plants) min 15 lit.	8.80/plant	12324.32	0.00	12324.32
12	Weeding and hoeing of 700 plants in 2 time. (Total 1400 plants)	5.12/plant	7163.51	0.00	7163.51
13	Hoeing of the plants before watering of 700 plants in 2 times (Total 1400 plants)	2.55/plant	3574.05	0.00	3574.05
14	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	5.02/rmt	2007.10	0.00	2007.10
15	Watch and ward for 12 months @ Rs.285 per day	prorata	20805.00	0.00	20805.00
16	Labour aminties and hut repair.	Prorata	412.11	52.40	464.51
17	Micellaneous and unforeseen expenditure including running of vechile.	Prorata	196.69	34.17	230.86
	TOTAL YEAR 1		73299.47	33927.82	107227.29
18	Cost escalation in labour amount due to increase in labour rate @5%		3664.97	0.00	3664.97
19	Administrative charges 10%				10722.73
				TOTAL	121615.00

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FIRST YEAR MAINTENANCE (YEAR 2)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Purchasing and Maintenance of 70 plants	42.58/plant	0.00	2980.88	2980.88
3	Repair of fencing	Prorata	285.00	0.00	285.00
4	Watering with insecticide to the plants . (2 times) for 700 plants (Total 1400 plants) min 15 lit.	8.80/plant	12324.32	0.00	12324.32
5	Casualty replacement 70 plants including redigging of pits, transportation planting, watering	14.75/plant	997.50	35.03	1032.53
6	Weeding and hoeing of 700 plants in 2 time. (Total 1400 plants)	5.12/plant	7163.51	0.00	7163.51
7	Hoeing of the plants before watering of 700 plants in 2 times (Total 1400 plants)	2.55/plant	3574.05	0.00	3574.05
8	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	5.02/rmt	2007.10	0.00	2007.10
9	Watch and ward for 12 months @285/ per day	prorata / ha	20805.00	0.00	20805.00
10	Misc. and unforeseen expences including (forest protection measures and running of vechile etc.	prorata	429.51	252.89	682.39
	TOTAL YEAR 2		47586.00	3346.25	50932.25
10	Cost escalation in labour amount due to increase in labour rate @10%		4758.60	0.00	4758.60
11	Administrative Charges 10%				5093.23
				TOTAL	60784.08
Second Year maintenance (Year 3)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watering with insecticide to the plants . (1 times) for 700 plants (Total 700 plants) min 15 lit.	8.80/plant	6162.16	0.00	6162.16
3	Hoeing of the plants before watering of 700 plants in 1 times (Total 700 plants)	2.55/plant	1787.03	0.00	1787.03
4	Watch and ward for 12 months @ 285/ per day	Prorata	20805.00	0.00	20805.00
5	Misc.and unforseen expenditure including (repairing of fencing / structures pruning /running of vechile etc.	Prorata	877.75	307.56	1185.31
	Total Year 3		29631.94	385.02	30016.96
	Cost escalation in labour amount due to increase in labour rate @15%		4444.79	0.00	4444.79
	Administrative charges 10%				3001.70
	GRAND TOTAL				37463.45
Third Year maintenance (Year 4)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46

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2	Watch and ward for 12 months @ 285/ per day	Prorata	20805.00	0.00	20805.00
3	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning/running of vechile etc.	Prorata	877.75	307.56	1185.31
	Total Year 4		21682.75	385.02	22067.77
6	Cost escalation in labour amount due to increase in labour rate @20%		4336.55	0.00	4336.55
7	Administrative charges 10%				2206.78
	GRAND TOTAL				28611.10
Fourth Year maintenance (Year 5)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watch and ward for 12 months @ 285/ per day	Prorata	20805.00	0.00	20805.00
3	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning ,running of vechile etc.	Prorata	877.75	307.56	1185.31
	Total Year 5		21682.75	385.02	22067.77
4	Cost escalation in labour amount due to increase in labour rate @25%		5420.69	0.00	5420.69
5	Administrative charges 10%				2206.78
	GRAND TOTAL				29695.23
SUBSEQUENT MAINTENANCE (YEAR 6 TO 12)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watch and ward for 12 months @ 285/ per day	Prorata	20805.00	0.00	20805.00
3	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning/running of vechile etc.	Prorata	877.75	307.56	1185.31
	TOTAL YEAR 6-12.		21682.75	385.02	22067.77
4	Cost escalation in labour amount due to increase in labour rate @30%		6504.82	0.00	6504.82
5	Administrative charges 10%				2206.78
				TOTAL	30779.37
	GRAND TOTAL				
	0 Year		98198.14		
	First Year		121615.00		
	Second Year		60784.08		
	Third Year		37463.45		
	Fourth Year		28611.10		
	Fifth Year		29695.23		
	Sixth year		30779.37		
	Seventh year		30779.37		
	Eighth year		30779.37		
	Ninth Year		30779.37		
	Tenth Year		30779.37		
	Eleventh Year		30779.37		
	Twelth Year		30779.37		

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	TOTAL	591822.59
	Say	592000

Note:

1. Plants taken 1000, area has to be increased accordingly as per direction of MoEF & CC, GoI, New Delhi.
2. The cost of DFL varies from 577000/- to 643000/- due to fencing cost. DCF/CCF may ensure the fencing with respect to protection measures.
3. If the total 1000 plants have not to be planted at the proposed site, then area may be increased proportionately.
4. Models are indicative, any deviation can be approved by competent authority as per site specific conditions.


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**MODEL COST ESTIMATE FOR COMPENSATORY AFFORESTATION
ON DEGRADED FOREST LAND (CA-DFL)**

UNIT : 25 Ha
PERIMETER: 90 M/Ha.
LABOUR RATE: Rs. 285/Man
COST ESTIMATE: in Rs./Ha.

0 YEAR (ADVANCE ACTION)

S.No.	ITEM OF WORK	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest management activities.	1437.75/ha.	1329.99	107.76	1437.75
2	Survey of area, layout of contour trenches, burrow pits and making of segments / plots	845.92/ha.	763.82	82.10	845.92
3	Fencing by Barwad wire, stone wall and or by ditch.				
	a.) Loose Stone wall fencing 1.20 m high 0.80 m at base & 0.60 at top (on an average 30 m/ha.)	409.31/rmt	12279.21	0.00	12279.21
	b.) Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)/Barwad wire fencing	308.88/rmt	9266.35	0.00	9266.35
	c) Fencing of the plantation area with 2.1 meter high prestressed Cement Concrete Post and 5 stand barbed wire (Details given at annexure "A" for PCC post and annexure B for fencing details) (30m/ha.)	214.35/rmt	1320.46	5110.08	6430.54
4	Layout of staggered /continuous contour trenches, v-ditch, contour dykes and pits etc. by contour survey in the area	89.65/ha.	89.65	0.00	89.65
5	Digging up 200 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	35.63/rmt	7126.10	0.00	7126.10
6	Digging of 400 pits size: 0.45x(0.4+0.5/2)2 cum	22.30/pit	8921.93	0.00	8921.93
7	Cost of collection and purchase of grass and other seeds of trees and shrubs (3 kg grass seed and 3 kg tree species seed)	Prorata	0.00	266.15	266.15
8	In situ Soil and moisture Conservation works including check dams, percolation tank, earthen bund etc.	Prorata	5463.60	0.00	5463.60
9	Construction of Thatched cattle guard hut	Prorata	429.15	223.57	652.72
10	Construction of water storage tank.	Prorata	89.65	51.26	140.91
11	Labour amenities	Prorata	104.37	91.13	195.50
12	Watch and ward for 4 months @ 285 per day	Prorata	1386.99	0.00	1386.99
13	Construction of the pillars of appropriate size for gate.	Prorata	90.99	103.66	194.65
14	Construction of approach road / inspection path	Prorata	484.17	0.00	484.17
15	Purchase of signboards & fixing at site	Prorata	36.13	97.96	134.09
16	Misc. and unforeseen expenses including POL for vehicles	Prorata	317.11	115.05	432.16
	TOTAL YEAR 0		49499.67	6248.72	55748.40
18	Administrative charges 10%				5574.84
			TOTAL		61323.24

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	YEAR I (PLANTING YEAR)				
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Purchasing and Maintenance of 770 plants	42.58/plant	0.00	32789.68	32789.68
3	Digging of 300 pits of size 0.45 (4+5/2)*2 Cum	22.30/pit	6691.45	0.00	6691.45
4	Sowing/dibbling of seeds of grass /thorny trees species on the mounds of contour trench and ditch fencing etc. (200 m / ha.)	0.64/m	127.64	0.00	127.64
5	Purchase and application of insecticides, fertilizer, plant growth harmone etc. in 1000 plants	3.77/plant	3064.60	701.55	3766.15
6	Sowing of pellats of grass/piece of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1113.24	66.07	1179.31
7	Restoration of natural regeneration by making crescent shapad mounds on the lower slopes of seedling and sapling and making ring tranches around the natural trees / shrubs.	Prorata	1425.00	0.00	1425.00
8	Transportation of 770 plants from nursery to planting site in cluding loading and unloading	4.01/plant	2879.20	206.49	3085.69
9	Planting of 700 seedlings including Refilling of pits	8.53/plant	5969.59	0.00	5969.59
10	Making of 700 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	7.92/plant	5545.95	0.00	5545.95
11	Watering with insecticide to the plants . (2 times) for 700 plants (Total 1400 plants) min 15 lit.	8.80/plant	12324.32	0.00	12324.32
12	Weeding and hoeing of 700 plants in 2 time. (Total 1400 plants)	5.12/plant	7163.51	0.00	7163.51
13	Hoeing of the plants before watering of 700 plants in 2 times (Total 1400 plants)	2.55/plant	3574.05	0.00	3574.05
14	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	5.02/rmt	2007.10	0.00	2007.10
15	Watch and ward for 12 months @ Rs.285 per day	Prorata	4161.00	0.00	4161.00
16	Labour aminties and hut repair.	Prorata	412.11	52.40	464.51
17	Micellaneous and unforeseen expenditure including running of vechile.	Prorata	196.69	34.17	230.86
	TOTAL YEAR 1		56655.47	33927.82	90583.29
18	Cost escalation in labour amount due to increase in labour rate @5%		2832.77	0.00	2832.77
19	Administrative charges 10%				9058.33
				TOTAL	102474.40
	FIRST YEAR MAINTENANCE (YEAR 2)				
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Purchasing and Maintenance of 70 plants	42.58/plant	0.00	2980.88	2980.88
3	Repair of fencing	Prorata	285.00	0.00	285.00
4	Watering with insecticide to the plants . (2 times) for 700 plants (Total 1400 plants) min 15 lit.	8.80/plant	12324.32	0.00	12324.32
5	Casualty replacement 70 plants including redigging of pits, transportation planting, watering	14.75/plant	997.50	35.03	1032.53

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उप वन संरक्षक (प्रशासन)
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टी. आर. ई. ई. राज., जयपुर
कोड सं. 19337

(सेडूराम यादव)
मुख्य वन संरक्षक (आवोजना)
राजस्थान, जयपुर

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6	Weeding and hoeing of 700 plants in 2 time. (Total 1400 plants)	5.12/plant	7163.51	0.00	7163.51
7	Hoeing of the plants before watering of 700 plants in 2 times (Total 1400 plants)	2.55/plant	3574.05	0.00	3574.05
8	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	5.02/rmt	2007.10	0.00	2007.10
9	Watch and ward for 12 months @285/ per day	Prorata/ha	4160.56	0.00	4160.56
10	Misc. and unforeseen expences including (forest protection measures and running of vechile etc.	Prorata	429.51	252.89	682.39
TOTAL YEAR 2			30941.56	3346.25	34287.81
10	Cost escalation in labour amount due to increase in labour rate @10%		3094.16	0.00	3094.16
11	Administrative Charges 10%				3428.78
GRAND TOTAL					40810.75
Second Year maintenance (Year 3)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watering with insecticide to the plants . (1 times) for 700 plants (Total 700 plants) min 15 lit.	8.80/plant	6162.16	0.00	6162.16
3	Hoeing of the plants before watering of 700 plants in 1 times (Total 700 plants)	2.55/plant	1787.03	0.00	1787.03
4	Watch and ward for 12 months @ 285/ per day	Prorata	4160.56	0.00	4160.56
5	Misc.and unforseen expenditure including (repairing of fencing / structures pruning /running of vechile etc.	Prorata	877.75	307.56	1185.31
Total Year 3			12987.50	385.02	13372.52
Cost escalation in labour amount due to increase in labour rate @15%			1948.12	0.00	1948.12
Administrative charges 10%					1337.25
GRAND TOTAL					16657.89
Third Year maintenance (Year 4)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watch and ward for 12 months @ 285/ per day	Prorata	4160.56	0.00	4160.56
3	Misc.and unforseen expenditure including (repairing of fencing / structures pruning/running of vechile etc.	Prorata	877.75	307.56	1185.31
Total Year 4			5038.31	385.02	5423.33
6	Cost escalation in labour amount due to increase in labour rate @20%		1007.66	0.00	1007.66
7	Administrative charges 10%				542.33
GRAND TOTAL					6973.32
Fourth Year maintenance (Year 5)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watch and ward for 12 months @ 285/ per day	Prorata	4160.56	0.00	4160.56
3	Misc.and unforseen expenditure including (repairing of fencing / structures pruning ,running of vechile etc.	Prorata	877.75	307.56	1185.31
Total Year 5			5038.31	385.02	5423.33

आह्वरण एवं वितरण अधिकारी
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4	Cost escalation in labour amount due to increase in labour rate @25%		1259.58	0.00	1259.58
5	Administrative charges 10%				542.33
	GRAND TOTAL				7225.24
	SUBSEQUENT MAINTENANCE (YEAR 6 TO 12)				
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watch and ward for 12 months @ 285/ per day	Prorata	4160.56	0.00	4160.56
3	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning/running of vechile etc.	Prorata	877.75	307.56	1185.31
	TOTAL YEAR 6-12.		5038.31	385.02	5423.33
4	Cost escalation in labour amount due to increase in labour rate @30%		1511.49	0.00	1511.49
5	Administrative charges 10%				542.33
				TOTAL	7477.15
	GRAND TOTAL				
	0 Year		61323.24		
	First Year		102474.40		
	Second Year		40810.75		
	Third Year		16657.89		
	Fourth Year		6973.32		
	Fifth Year		7225.24		
	Sixth year		7477.15		
	Seventh year		7477.15		
	Eighth year		7477.15		
	Ninth Year		7477.15		
	Tenth Year		7477.15		
	Eleventh Year		7477.15		
	Twelth Year		7477.15		
	TOTAL		287804.92		
	Say		288000		

Note:

1. Plants taken 1000, area has to be increased accordingly as per direction of MoEF & CC, Gol, New Delhi.
2. The cost of DFL varies from 280000/- to 298000/- due to fencing cost. DCF/CCF may ensure the fencing with respect to protection measures.
3. If the total 1000 plants have not to be planted at the proposed site, then area may be increased proportionately.
4. Models are indicative, any deviation can be approved by competent authority as per site specific conditions.

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**MODEL COST ESTIMATE FOR COMPENSATORY AFFORESTATION
ON DEGRADED FOREST LAND (CA-DFL)**

UNIT : 50 Ha.
PERIMETER: 60 M/Ha.

LABOUR RATE: Rs. 285/Man Day
COST ESTIMATE: in Rs./Ha.

0 YEAR (ADVANCE ACTION)

S. No.	ITEM OF WORK	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest managment activities.	1437.75/ha.	1329.99	107.76	1437.75
2	Survey of area,layout of contour trenches, burrow pits and making of segments / plots	845.92/ha.	763.82	82.10	845.92
3	Fencing by Barwad wire, stone wall and or by ditch.				
	a.) Loose Stone wall fencing 1.20 m high 0.80 m at base & 0.60 at top (on an average 20 m/ha.)	409.29/rmt	8185.77	0.00	8185.77
	b.) Ditch fencing 1.20m deep,1.50m wide at top & 0.90m at bottom (on an average 20m/ha.)/Barwad wire fencing	308.88/rmt.	6177.57	0.00	6177.57
	c)Fencing of the plantation area with 2.1 meter high prestressed Cement Concrete Post and 5 stand barbed wire (Details given at annexure "A" for PCC post and annexure B for fencing details) (20m/ha.)	214.35/rmt	880.31	3406.72	4287.03
4	Layout of staggered /contineous contour trenches, v-ditch, contour dykes and pits etc. by contour survey in the area	89.65/ha.	89.65	0.00	89.65
5	Digging up 200 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	35.63/rmt	7126.10	0.00	7126.10
6	Digging of 400 pits size: 0.45x(0.4+0.5/2)2 cum	22.30/pit	8921.93	0.00	8921.93
7	Cost of collection and purchase of grass and other seeds of trees and shrubs (3 kg grass seed and 3 kg tree species seed)	Prorata	0.00	266.15	266.15
8	In situ Soil and moisture Conservation works including check dams, percolation tank, earthen bund etc.	Prorata	5463.60	0.00	5463.60
9	Construction of Thatched cattle guard hut	Prorata	429.15	223.57	652.72
10	Construction of water storage tank.	Prorata	89.65	51.26	140.91
11	Labour aminities	Prorata	104.37	91.13	195.50
12	Watch and ward for 4 months @ 285 per day	Prorata	693.24	0.00	693.24
13	Construction of the pillars of appropriate size for gate.	Prorata	90.99	103.66	194.65
14	Construction of approach road / inspection path	Prorata	484.17	0.00	484.17
15	Purchase of signboards & fixing at site	Prorata	36.13	97.96	134.09
16	Misc. and unforeseen expenses including POL for vehicles	Prorata	317.11	115.05	432.16
	TOTAL YEAR 0		41183.55	4545.36	45728.91
18	Administrative charges 10%				4572.89
				TOTAL	50301.80


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YEAR I (PLANTING YEAR)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Purchasing and Maintenance of 770 plants	42.58/plant	0.00	32789.68	32789.68
3	Digging of 300 pits of size 0.45 (4+5/2)*2 Cum	22.30/pit	6691.45	0.00	6691.45
4	Sowing/dibbling of seeds of grass /thorny trees species on the mounds of contour trench and ditch fencing etc. (200 m / ha.)	0.64/m	127.64	0.00	127.64
5	Purchase and application of insecticides, fertilizer, plant growth harmone etc. in 1000 plants	3.77/plant	3064.60	701.55	3766.15
6	Sowing of pellats of grass/piece of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1113.24	66.07	1179.31
7	Restoration of natural regeneration by making crescent shapad mounds on the lower slopes of seedling and sapling and making ring tranches around the natural trees / shrubs.	Prorata	1425.00	0.00	1425.00
8	Transportation of 770 plants from nursery to planting site in cluding loading and unloading	4.01/plant	2879.20	206.49	3085.69
9	Planting of 700 seedlings including Refilling of pits	8.53/plant	5969.59	0.00	5969.59
10	Making of 700 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	7.92/plant	5545.95	0.00	5545.95
11	Watering with insecticide to the plants . (2 times) for 700 plants (Total 1400 plants) min 15 lit.	8.80/plant	12324.32	0.00	12324.32
12	Weeding and hoeing of 700 plants in 2 time. (Total 1400 plants)	5.12/plant	7163.51	0.00	7163.51
13	Hoeing of the plants before watering of 700 plants in 2 times (Total 1400 plants)	2.55/plant	3574.05	0.00	3574.05
14	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	5.02/rmt	2007.10	0.00	2007.10
15	Watch and ward for 12 months @ Rs.285 per day	Prorata	2080.50	0.00	2080.50
16	Labour aminties and hut repair.	Prorata	412.11	52.40	464.51
17	Micellaneous and unforeseen expenditure including running of vechile.	Prorata	196.69	34.17	230.86
TOTAL YEAR 1			54574.97	33927.82	88502.79
18	Cost escalation in labour amount due to increase in labour rate @5%		2728.75	0.00	2728.75
19	Administrative charges 10%				8850.28
				TOTAL	100081.82
FIRST YEAR MAINTENANCE (YEAR 2)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Purchasing and Maintenance of 70 plants	42.58/plant	0.00	2980.88	2980.88
3	Repair of fencing	Prorata	285.00	0.00	285.00
4	Watering with insecticide to the plants . (2 times) for 700 plants (Total 1400 plants) min 15 lit.	8.80/plant	12324.32	0.00	12324.32
5	Casualty replacement 70 plants including redigging of pits, transportation planting, watering	14.75/plant	997.50	35.03	1032.53
6	Weeding and hoeing of 700 plants in 2 time. (Total 1400 plants)	5.12/plant	7163.51	0.00	7163.51
7	Hoeing of the plants before watering of 700 plants in 2 times (Total 1400 plants)	2.55/plant	3574.05	0.00	3574.05
8	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	5.02/rmt	2007.10	0.00	2007.10

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9	Watch and ward for 12 months @285/ per day	Prorata/ha	2080.50	0.00	2080.50
10	Misc. and unforeseen expences including (forest protection measures and running of vechile etc.	Prorata	429.51	252.89	682.39
	TOTAL YEAR 2		28861.50	3346.25	32207.75
10	Cost escalation in labour amount due to increase in labour rate @10%		2886.15	0.00	2886.15
11	Administrative Charges 10%				3220.78
	GRAND TOTAL				38314.68
Second Year maintenance (Year 3)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watering with insecticide to the plants . (1 times) for 700 plants (Total 700 plants) min 15 lit.	8.80/plant	6162.16	0.00	6162.16
3	Hoeing of the plants before watering of 700 plants in 1 times (Total 700 plants)	2.55/plant	1787.03	0.00	1787.03
4	Watch and ward for 12 months @ 285/ per day	Prorata	2080.50	0.00	2080.50
5	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning /running of vechile etc.	Prorata	877.75	307.56	1185.31
	Total Year 3		10907.44	385.02	11292.46
	Cost escalation in labour amount due to increase in labour rate @15%		1636.12	0.00	1636.12
	Administrative charges 10%				1129.25
	GRAND TOTAL				14057.82
Third Year maintenance (Year 4)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watch and ward for 12 months @ 285/ per day	Prorata	2080.50	0.00	2080.50
3	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning/running of vechile etc.	Prorata	877.75	307.56	1185.31
	Total Year 4		2958.25	385.02	3343.27
6	Cost escalation in labour amount due to increase in labour rate @20%		591.65	0.00	591.65
7	Administrative charges 10%				334.33
	GRAND TOTAL				4269.25
Fourth Year maintenance (Year 5)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watch and ward for 12 months @ 285/ per day	Prorata	2080.50	0.00	2080.50
3	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning ,running of vechile etc.	Prorata	877.75	307.56	1185.31
	Total Year 5		2958.25	385.02	3343.27
4	Cost escalation in labour amount due to increase in labour rate @25%		739.56	0.00	739.56
5	Administrative charges 10%				334.33
	GRAND TOTAL				4417.16
SUBSEQUENT MAINTENANCE (YEAR 6 TO 12)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watch and ward for 12 months @ 285/ per day	Prorata	2080.83	0.00	2080.83
3	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning/running of vechile etc.	Prorata	877.75	307.56	1185.31
	TOTAL YEAR 6-12.		2958.58	385.02	3343.60
4	Cost escalation in labour amount due to increase in labour rate @30%		887.57	0.00	887.57
5	Administrative charges 10%				334.36
	TOTAL				4565.53

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GRAND TOTAL	
0 Year	50301.80
First Year	100081.82
Second Year	38314.68
Third Year	14057.82
Fourth Year	4269.25
Fifth Year	4417.16
Sixth year	4565.53
Seventh year	4565.53
Eighth year	4565.53
Ninth Year	4565.53
Tenth Year	4565.53
Eleventh Year	4565.53
Twelfth Year	4565.53
TOTAL	243401.26
Say	243400

Note:

1. Plants taken 1000, area has to be increased accordingly as per direction of MoEF & CC, Gol, New Delhi.
2. The cost of DFL varies from 240000/- to 260000/- due to fencing cost. DCF/CCF may ensure the fencing with respect to protection measures.
3. If the total 1000 plants have not to be planted at the proposed site, then area may be increased proportionately.
4. Models are indicative, any deviation can be approved by competent authority as per site specific conditions.


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MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION ON ALLOTTED NON FOREST LAND (CA-NFL)

UNIT : 5 Ha
PERIMETER: 180 M/Ha.
LABOUR RATE: Rs.285/Man
Day
COST ESTIMATE: in Rs./Ha.

ADVANCE ACTION (0 YEAR)

S.No.	ITEMS	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest managment activities.	1473.75/ha	1329.99	107.76	1437.75
2	Survey of area, lay out of contour trenches, burrowpits and making of segments / plots	845.92/ha	763.82	82.10	845.92
3	a) Construction of puccka wall 1.20 meter height 0.50 meter base and 0.38 meter top (60meter/ha.)	3328.86/rmt	133296.37	66435.30	199731.67
	b.) Loose Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (60m/ha.)	409.29/rmt	24557.32	0.00	24557.32
	c)Fencing of the plantation area with 2.1 meter high prestressed Cement Concrete Post and 5 stand barbed wire (Details given at annexure "A" for PCC post and annexure B for fencing details) (60m/ha.)	214.35/rmt	2640.93	10220.16	12861.09
4	Digging of 500 pits size: 0.45x(.4+5/2)2	22.31/pit	11152.41	0.00	11152.41
5	Layout of of staggered/continuous contour trenches, V-ditches, contour dykes and pits etc. by contour survey in	89.65/ha	89.65	0.00	89.65
6	Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	35.63/rmt	14252.20	0.00	14252.20
7	In situ Soil and moisture Conservation works including check dams, percolation tank, earthen bund etc.	Prorata	5463.60	0.00	5463.60
8	Construction of the pillars of appropriate size and fixing of iron pipe gate with four square column	Prorata	90.99	103.66	194.65
9	Construction of approach road and inspection path	Prorata	314.44	0.00	314.44
10	Watch and ward @ 259 per day for 4 months	Prorata	6935.33	0.00	6935.33
11	Construction of Thatched cattle guard hut/Shade.	Prorata	429.15	223.57	652.72
12	Cost of grass and other seeds (3 kg grass seed and 3 kg tree species seed	Prorata	0.00	266.15	266.15
13	Labour aminities	Prorata	104.37	91.13	195.50
14	Construction of water storage tank.	Prorata	89.65	51.26	140.91
15	Purchase of signboards and their fixing	Prorata	36.13	97.96	134.09
16	Misc. and unforeseen expenses including running of vehicles	Prorata	169.93	173.15	343.08
	TOTAL YEAR 0		201716.26	77852.20	279568.46
17	Administrative charges 10%				27956.85
	TOTAL				307525.31
	YEAR I (PLANTING YEAR)				
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Digging of 500 pits of size 0.45 (4+5/2)*2 Cum	22.30/pit	11152.41	0.00	11152.41

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3	Purchase/maintenance of 1100 seedling of 3 to 5 feet height plant	42.58/plant	0.00	46842.40	46842.40
4	Restoration of natural regeneration by making crescent shaped mounds on the lower slopes of seedling and sapling and making ring trenches around the natural trees/shrubs.	Parota	1425.00	0.00	1425.00
5	Sowing of pellets of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1113.24	66.07	1179.31
6	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, and ditch fencing including pretreatment of seeds (400 rmt.)	0.64/rmt	255.29	0.00	255.29
7	Transportation of 1100 plants from nursery to planting site including loading and unloading	4.00/plant	3739.23	656.36	4395.59
8	Planting of 1000 seedlings including Refilling of pits	8.53/plant	8527.99	0.00	8527.99
9	Making of 1000 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	7.92/plant	7922.78	0.00	7922.78
10	Purchase and application of insecticides, fertilizer, plant growth hormone etc. in 1000 plants	5.38/plant	4378.00	1002.43	5380.42
11	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.80/plant	17606.18	0.00	17606.18
12	Weeding and hoeing of 1000 plants in 2 times. (Total 2000 plants)	5.12/plant	10233.59	0.00	10233.59
13	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.55/plant	5105.79	0.00	5105.79
14	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	5.02/rmt	2007.10	0.00	2007.10
15	Watch and ward @285 per day for 12 months	prorata	20805.00	0.00	20805.00
16	Special protection of frost tender species.	Prorata	46.83	38.73	85.56
17	Labour amenities.	Prorata	220.77	25.06	245.84
18	Micellaneous and unforeseen expenditure including running of vehicle.	Prorata	176.62	125.30	301.92
19	TOTAL YEAR 1		94715.83	48833.81	143549.64
20	Cost escalation in labour amount due to increase in wage rate @5%		4735.79	0.00	4735.79
21	Administrative charges 10%				14354.96
	TOTAL				162640.40
	First Year Maintenance (year 2)				
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Purchasing /maintenance of 110 seedlings for casulty replacement plant size (3 to 5 feet height)	42.58/plant	0.00	4684.24	4684.24
3	Casualty replacement 100 plants including redigging of pits, transportation planting, watering	14.75/plant	1425.00	50.14	1475.14
4	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (400 m.)	0.64/rmt	255.29	0.00	255.29
5	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.80/plant	17606.18	0.00	17606.18

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
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6	Weeding and Hoeing in 1000 plants in pits two times Total 2000 plants)	5.12/plant	10233.59	0.00	10233.59
7	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.55/plant	5105.79	0.00	5105.79
8	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/ spacement in the line sowing. (400 rmt.)	5.02/rmt	2007.10	0.00	2007.10
9	Repair of fencing	Prorata	260.92	10.25	271.17
10	Repairing of Check dams / WHS	Prorata	181.97	12.53	194.50
11	Pruning of Trees species to boost up the growth	Prorata	276.97	13.67	290.64
12	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	20805.00	0.00	20805.00
13	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.67
	TOTAL YEAR 2		58319.71	4920.06	63239.77
13	Cost escalation in labour amount due to increase in wage rate @10%		5831.97	0.00	5831.97
14	Administrative charges 10%				6323.98
	TOTAL				75395.72
Second Year Maintenance (Year 3)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watering with insecticide to the plants . (1 times) for 1000 plants (Total 1000 plants) min 15 lit.	8.80/plant	8803.09	0.00	8803.09
3	Hoeing of the plants before watering of 1000 plants in 1 times (Total 1,000 plants)	2.55/plant	2552.90	0.00	2552.90
4	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
5	Wages of Chowkidar @ Rs.285/ day for 12 month	prorata	20805.00	0.00	20805.00
6	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66
7	Total Year 3		32460.70	153.78	32614.48
8	Cost escalation in labour amount due to increase in wage rate 15%		4869.10	0.00	4869.10
9	Administrative charges 10%				3261.45
	Grand Total				40745.03
Third Year Maintenance (Year 4)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
3	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	20805.00	0.00	20805.00
4	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66
	Total Year 4		21104.71	153.78	21258.49
7	Cost escalation in labour amount due to increase in wage rate 20%		4220.94	0.00	4220.94
8	Administrative charges 10%				2125.85
	Grand Total				27605.29
Fourth Year Maintenance (Year 5)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
4	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
5	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	20805.00	0.00	20805.00
6	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66

आहरण एवं वितरण अधिकारी
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	Total Year 5		21104.71	153.78	21258.49
7	Cost escalation in labour amount due to increase in wage rate 25%		5276.18	0.00	5276.18
8	Administrative charges 10%				2125.85
	Grand Total				28660.52
SUBSEQUENT MAINTENANCE (YEAR 6 TO 12)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Pruning of Trees species to boost up the growth	Prorata	137.82	4.56	142.37
3	Wages of Chowkidar @ Rs. 259/- day for 12 month	prorata	20805.00	0.00	20805.00
4	Miscellaneous expenditure including Maintenance of Vehicles, repaire of fencing etc.	prorata	161.90	71.76	233.66
	TOTAL YEAR 6-12.		21104.72	153.78	21258.50
5	Cost escalation in labour component due to increase in wage rate @30%		6331.42	0.00	6331.42
6	Administrative charges 10%				2125.85
	GRAND TOTAL				29715.76
	0 Year		307525.31		
	First Year		162640.40		
	Second Year		75395.72		
	Third Year		40745.03		
	Fourth Year		27605.29		
	Fifth Year		28660.52		
	Sixth Year		29715.76		
	Seventh Year		29715.76		
	Eighth year		29715.76		
	Ninth Year		29715.76		
	Tenth Year		29715.76		
	Eleventh Year		29715.76		
	Twelfth Year		29715.76		
	Total		850582.61		
	Say		850600		

- Note: 1. The model is prepared as per directions of MoEF & CC, Gol, New Delhi.
2. The cost of NFL varies from 580000/- to 1085000/- due to fencing cost. DCF/CCF may ensure the fencing with respect to protection measures.
3. If the total 1,000 plants have not to be planted at the proposed site, balance plants may be planted in Degarded Forest land.
4. Models are indicative, any deviation can be approved by competent authority as per site specific conditions.

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**MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION
ON ALLOTTED NON FOREST LAND (CA-NFL)**

UNIT : 25 Ha.
PERIMETER: 90 M/Ha.
LABOUR RATE: Rs.285/Man
Day
COST ESTIMATE: in Rs./Ha.

ADVANCE ACTION (0 YEAR)					
S. No.	ITEMS	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest managment activities.	1437.75/ha	1329.99	107.76	1437.75
2	Survey of area, lay out of contour trenches, burrowpits and making of segments / plots	845.92/ha	763.82	82.10	845.92
3	a) Construction of pucca wall 1.20 meter height 0.50 meter base and 0.38 meter top (30meter/ha.)	3328.86/rmt	66648.19	33217.65	99865.83
	b.) Loose Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (30m/ha.)	409.29/rmt	12278.66	0.00	12278.66
	c)Fencing of the plantation area with 2.1 meter high prestressed Cement Concrete Post and 5 stand barbed wire (Details given at annexure "A" for PCC post and annexure B for fencing details) (30m/ha.)	214.35/rmt	1320.46	5110.08	6430.54
4	Digging of 500 pits size: 0.45x(.4+.5/2)2	22.30/pit	11152.41	0.00	11152.41
5	Layout of of staggered/continuous contour trenches, V-ditches, contour dykes and pits etc. by contour survey in 1/4th area	89.65/ha	89.65	0.00	89.65
6	Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	35.63/rmt	14252.20	0.00	14252.20
7	In situ Soil and moisture Conservation works including check dams, percolation tank, earthen bund etc.	Prorata	5463.60	0.00	5463.60
8	Construction of the pillars of appropriate size and fixing of iron pipe gate with four square column	Prorata	90.99	103.66	194.65
9	Construction of approach road and inspection path	Prorata	314.44	0.00	314.44
10	Watch and ward @ 285 per day for 4 months	Prorata	1386.96	0.00	1386.96
11	Construction of Thatched cattle guard hut.	Prorata	429.15	223.57	652.72
12	Cost of grass and other seeds (3 kg grass seed and 3 kg tree species seed	Prorata	0.00	266.15	266.15
13	Labour aminities	Prorata	104.37	91.13	195.50
14	Construction of water storage tank.	Prorata	89.65	51.26	140.91
15	Purchase of signboards and their fixing	Prorata	36.13	97.96	134.09
16	Misc. and unforeseen expenses including running of vehicles	Prorata	169.93	173.15	343.08
	TOTAL YEAR 0		115920.59	39524.47	155445.06
17	Administrative charges 10%				15544.51
	TOTAL				170989.56
YEAR I (PLANTING YEAR)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Digging of 500 pits of size 0.45 (4+5/2)*2 Cum	22.30/pit	11152.41	0.00	11152.41
3	Purchase/maintenece of 1100 seedling of 3 to 5 feet height plant	42.58/plant	0.00	46842.40	46842.40


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4	Restoration of natural regeneration by making crescent shaped mounds on the lower slopes of seedling and sapling and making ring trenches around the natural trees/shrubs.	Parota	1425.00	0.00	1425.00
5	Sowing of pellets of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1113.24	66.07	1179.31
6	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, and ditch fencing including pretreatment of seeds (400 rmt.)	0.64/rmt	255.29	0.00	255.29
7	Transportation of 1100 plants from nursery to planting site including loading and unloading	4.00/plant	3739.23	656.36	4395.59
8	Planting of 1000 seedlings including Refilling of pits	8.53/plant	8527.99	0.00	8527.99
9	Making of 1000 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	7.92/plant	7922.78	0.00	7922.78
10	Purchase and application of insecticides, fertilizer, plant growth hormone etc. in 1000 plants	5.38/plant	4378.00	1002.43	5380.42
11	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.80/plant	17606.18	0.00	17606.18
12	Weeding and hoeing of 1000 plants in 2 times. (Total 2000 plants)	5.12/plant	10233.59	0.00	10233.59
13	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.55/plant	5105.79	0.00	5105.79
14	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	5.02/rmt	2007.10	0.00	2007.10
15	Watch and ward @285 per day for 12 months	prorata	4161.00	0.00	4161.00
16	Special protection of frost tender species.	Prorata	46.83	38.73	85.56
17	Labour amenities.	Prorata	220.77	25.06	245.84
18	Micellaneous and unforeseen expenditure including running of vechile.	Prorata	176.62	125.30	301.92
TOTAL YEAR 1			78071.83	48833.81	126905.64
19	Cost escalation in labour amount due to increase in wage rate @5%		3903.59	0.00	3903.59
20	Administrative charges 10%				12690.56
TOTAL					143499.80
First Year Maintenance (year 2)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Purchasing /maintenance of 110 seedlings for casulty replacement plant size (3 to 5 feet height)	42.58/plant	0.00	4684.24	4684.24
3	Casualty replacement 100 plants including redigging of pits, transportation planting, watering	14.75/plant	1425.00	50.14	1475.14
4	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (400 m.)	0364/rmt	255.29	0.00	255.29
5	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.80/plant	17606.18	0.00	17606.18
6	Weeding and Hoeing in 1000 plants in pits two times Total 2000 plants)	5.12/plant	10233.59	0.00	10233.59
7	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.55/plant	5105.79	0.00	5105.79
8	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/ spacement in the line sowing. (400 rmt.)	5.02/rmt	2007.10	0.00	2007.10
9	Repair of fencing	Prorata	260.92	10.25	271.17
10	Repairing of Check dams / WHS	Prorata	181.97	12.53	194.50
11	Pruning of Trees species to boost up the growth	Prorata	276.97	13.67	290.64

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12	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	4161.00	0.00	4161.00
13	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.67
	TOTAL YEAR 2		41675.71	4920.06	46595.77
13	Cost escalation in labour amount due to increase in wage rate @10%		4167.57	0.00	4167.57
14	Administrative charges 10%				4659.58
	TOTAL				55422.92
Second Year Maintenance (Year 3)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watering with insecticide to the plants . (1 times) for 1000 plants (Total 1000 plants) min 15 lit.	8.80/plant	8803.09	0.00	8803.09
3	Hoeing of the plants before watering of 1000 plants in 1 times (Total 1,000 plants)	2.55/plant	2552.90	0.00	2552.90
4	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
5	Wages of Chowkidar @ Rs.285/ day for 12 month	prorata	4161.00	0.00	4161.00
6	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66
7	Total Year 3		15816.70	153.78	15970.48
8	Cost escalation in labour amount due to increase in wage rate 15%		2372.50	0.00	2372.50
9	Administrative charges 10%				1597.05
	Grand Total				19940.03
Third Year Maintenance (Year 4)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
3	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	4161.00	0.00	4161.00
4	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66
	Total Year 4		4460.71	153.78	4614.49
7	Cost escalation in labour amount due to increase in wage rate 20%		892.14	0.00	892.14
8	Administrative charges 10%				461.45
	Grand Total				5968.09
Fourth Year Maintenance (Year 5)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
4	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
5	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	4161.00	0.00	4161.00
6	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66
	Total Year 5		4460.71	153.78	4614.49
7	Cost escalation in labour amount due to increase in wage rate 25%		1115.18	0.00	1115.18
8	Administrative charges 10%				461.45
	Grand Total				6191.12
SUBSEQUENT MAINTENANCE (YEAR 6 TO 12)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Pruning of Trees species to boost up the growth	Prorata	137.82	4.56	142.37
3	Wages of Chowkidar @ Rs. 285/- day for 12 month	prorata	4161.00	0.00	4161.00
4	Miscellaneous expenditure including Maintenance of Vehicles, repaire of fencing etc.	prorata	161.90	71.76	233.66
	TOTAL YEAR 6-12.		4460.72	153.78	4614.50
5	Cost escalation in labour component due to increase in wage rate @30%		1338.22	0.00	1338.22
6	Administrative charges 10%				461.45
	Grand Total				6414.16

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GRAND TOTAL	
0Year	170989.56
First Year	143499.80
Second Year	55422.92
Third Year	19940.03
Fourth Year	5968.09
Fifth Year	6191.12
Sixth Year	6414.16
Seventh Year	6414.16
Eighth year	6414.16
Ninth Year	6414.16
Tenth Year	6414.16
Eleventh Year	6414.16
Twelfth Year	6414.16
Total	446910.66
Say	447000

- Note:
1. The model is prepared as per directions of MoEF & CC, GoI, New Delhi.
 2. The cost of NFL varies from 367000/- to 734000/- due to fencing cost. DCF/CCF may ensure the fencing with respect to protection measures.
 3. If the total 1,000 plants have not to be planted at the proposed site, balance plants may be planted in Degarded Forest land.
 4. Models are indicative, any deviation can be approved by competent authority as per site specific conditions.


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 राजस्थान, जयपुर

MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION

ON ALLOTTED NON FOREST LAND (CA-NFL)

UNIT : 50 Ha.
PERIMETER: 60 M/Ha.
LABOUR RATE: Rs.285/Man
Day
COST ESTIMATE: in Rs./Ha.

S. No.	ADVANCE ACTION (0 YEAR)	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest managment activities.	1437.75/ha	1329.99	107.76	1437.75
2	Survey of area, lay out of contour trenches, burrowpits and making of segments / plots	845.92/ha	763.82	82.10	845.92
3	a) Construction of pucca wall 1.20 meter height 0.50 meter base and 0.38 meter top (20meter/ha.)	3328.86/rmt	44432.49	22144.74	66577.23
	b.) Loose Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (20m/ha.)	409.29/rmt	8185.77	0.00	8185.77
	c)Fencing of the plantation area with 2.1 meter high prestressed Cement Concrete Post and 5 stand barbed wire (Details given at annexure "A" for PCC post and annexure B for fencing details) (30m/ha.)	142.90/rmt	880.31	3406.72	4287.03
4	Digging of 500 pits size: 0.45x(.4+.5/2)z	22.30/pit	11152.41	0.00	11152.41
5	Layout of of staggered/continuous contour trenches, V-ditches, contour dykes and pits etc. by contour survey in 1/4th area	89.65/ha	89.65	0.00	89.65
6	Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	35.63/rmt	14252.20	0.00	14252.20
7	In situ Soil and moisture Conservation works including check dams, percolation tank, earthen bund etc.	Prorata	5463.60	0.00	5463.60
8	Construction of the pillars of appropriate size and fixing of iron pipe gate with four square column	Prorata	90.99	103.66	194.65
9	Construction of approach road and inspection path	Prorata	314.44	0.00	314.44
10	Watch and ward @ 285 per day for 4 months	Prorata	693.50	0.00	693.50
11	Construction of Thatched cattle guard hut.	Prorata	429.15	223.57	652.72
12	Cost of grass and other seeds (3 kg grass seed and 3 kg tree species seed	Prorata	0.00	266.15	266.15
13	Labour aminities	Prorata	104.37	91.13	195.50
14	Construction of water storage tank.	Prorata	89.65	51.26	140.91
15	Purchase of signboards and their fixing	Prorata	36.13	97.96	134.09
16	Misc. and unforeseen expenses including running of vehicles	Prorata	169.93	173.15	343.08
	TOTAL YEAR 0		88478.39	26748.20	115226.60
17	Administrative charges 10%				11522.66
	TOTAL				126749.25

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प्रधान मुख्य वन संरक्षक
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कोड स. 19337

(सेठुराम यादव)
मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

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YEAR I (PLANTING YEAR)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Digging of 500 pits of size 0.45 (4+5/2)*2 Cum	22.30/pit	11152.41	0.00	11152.41
3	Purchase/maintenece of 1100 seedling of 3 to 5 feet height plant	42.58/plant	0.00	46842.40	46842.40
4	Restoration of natural regeneration by making crescent shaped mounds on the lower slopes of seedling and sapling and making ring trenches around the natural trees/shrubs.	Prorata	1425.00	0.00	1425.00
5	Sowing of pellats of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1113.24	66.07	1179.31
6	Sowing/dibbling of seeds of shurb species on the mounds of staggered/continuous contour trenches, and ditch fencing including pretreatment of seeds (400 rmt.)	0.64/rmt	255.29	0.00	255.29
7	Transportation of 1100 plants from nursery to planting site including loading and unloading	4.00/plant	3739.23	656.36	4395.59
8	Planting of 1000 seedlings including Refilling of pits	8.53/plant	8527.99	0.00	8527.99
9	Making of 1000 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	7.92/plant	7922.78	0.00	7922.78
10	Purchase and application of insecticides, fertilizer, plant growth hormone etc. in 1000 plants	5.38/plant	4378.00	1002.43	5380.42
11	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.80/plant	17606.18	0.00	17606.18
12	Weeding and hoeing of 1000 plants in 2 times. (Total 2000 plants)	5.12/plant	10233.59	0.00	10233.59
13	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.55/plant	5105.79	0.00	5105.79
14	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	5.02/rmt	2007.10	0.00	2007.10
15	Watch and ward @285 per day for 12 months	prorata	2080.50	0.00	2080.50
16	Special protection of frost tender species.	Prorata	46.83	38.73	85.56
17	Labour aminities.	Prorata	220.77	25.06	245.84
18	Micellaneous and unforeseen expenditure including running of vechile.	Prorata	176.62	125.30	301.92
TOTAL YEAR 1			75991.33	48833.81	124825.14
19	Cost escalation in labour amount due to increase in wage rate @5%		3799.57	0.00	3799.57
20	Administrative charges 10%				12482.51
TOTAL					141107.22
First Year Maintenance (year 2)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Purchasing /maintenance of 110 seedlings for casulty replacement plant size (3 to 5 feet height)	42.58/plant	0.00	4684.24	4684.24
3	Casualty replacement 100 plants including redigging of pits, transportation planting, watering	14.75/plant	1425.00	50.14	1475.14

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4	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (400 m.)	0.64/rmt	255.29	0.00	255.29
5	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.80/plant	17606.18	0.00	17606.18
6	Weeding and Hoeing in 1000 plants in pits two times Total 2000 plants)	5.12/plant	10233.59	0.00	10233.59
7	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.55/plant	5105.79	0.00	5105.79
8	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/ spacing in the line sowing. (400 rmt.)	5.02/rmt	2007.10	0.00	2007.10
9	Repair of fencing	Prorata	260.92	10.25	271.17
10	Repairing of Check dams / WHS	Prorata	181.97	12.53	194.50
11	Pruning of Trees species to boost up the growth	Prorata	276.97	13.67	290.64
12	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	2080.50	0.00	2080.50
13	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.67
TOTAL YEAR 2			39595.21	4920.06	44515.27
13	Cost escalation in labour amount due to increase in wage rate @10%		3959.52	0.00	3959.52
14	Administrative charges 10%				4451.53
TOTAL					52926.32
Second Year Maintenance (Year 3)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Watering with insecticide to the plants . (1 times) for 1000 plants (Total 1000 plants) min 15 lit.	8.80/plant	8803.09	0.00	8803.09
3	Hoeing of the plants before watering of 1000 plants in 1 times (Total 1,000 plants)	2.55/plant	2552.90	0.00	2552.90
4	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
5	Wages of Chowkidar @ Rs.285/ day for 12 month	prorata	2080.50	0.00	2080.50
6	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66
7	Total Year 3		13736.20	153.78	13889.98
8	Cost escalation in labour amount due to increase in wage rate 15%		2060.43	0.00	2060.43
9	Administrative charges 10%				1389.00
Grand Total					17339.41
Third Year Maintenance (Year 4)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
3	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	2080.50	0.00	2080.50
4	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66
Total Year 4			2380.21	153.78	2533.99
7	Cost escalation in labour amount due to increase in wage rate 20%		476.04	0.00	476.04
8	Administrative charges 10%				253.40
Grand Total					3263.44

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Fourth Year Maintenance (Year 5)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Pruning of Trees species to boost up the growth	Prorata	137.81	4.56	142.37
3	Wages of Chowkidar @ Rs.285/ day for 12 month (only applicable to work chage employee)	prorata	2080.50	0.00	2080.50
4	Misc. and unforeseen expenditure including running of vechile	prorata	161.90	71.76	233.66
Total Year 5			2380.21	153.78	2533.99
5	Cost escalation in labour amount due to increase in wage rate 25%		595.05	0.00	595.05
6	Administrative charges 10%				253.40
Grand Total					3382.45
SUBSEQUENT MAINTENANCE (YEAR 6 TO 12)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	77.46	77.46
2	Pruning of Trees species to boost up the growth	Prorata	137.82	4.56	142.37
3	Wages of Chowkidar @ Rs. 285/- day for 12 month	prorata	2080.50	0.00	2080.50
4	Miscellaneous expenditure including Maintenance of Vehicles, repaire of fencing etc.	prorata	161.90	71.76	233.66
TOTAL YEAR 6-12.			2380.22	153.78	2534.00
5	Cost escalation in labour component due to increase in wage rate @30%		714.07	0.00	714.07
6	Administrative charges 10%				253.40
Total					3501.46
GRAND TOTAL					
0Year			126749.25		
First Year			141107.22		
Second Year			52926.32		
Third Year			17339.41		
Fourth Year			3263.44		
Fifth Year			3382.45		
Sixth Year			3501.46		
Seventh Year			3501.46		
Eighth year			3501.46		
Ninth Year			3501.46		
Tenth Year			3501.46		
Eleventh Year			3501.46		
Twelth Year			3501.46		
Total			369278.33		
Say			370000		

- Note: 1. The model is prepared as per directions of MoEF & CC, Gol, New Delhi.
2. The cost of NFL varies from 305000/- to 495000/- due to fencing cost. DCF/CCF may ensure the fencing with respect to protection measures.
3. If the total 1,000 plants have not to be planted at the proposed site, balance plants may be planted in Degarded Forest land.
4. Models are indicative, any deviation can be approved by competent authority as per site specific conditions.

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MODEL COST ESTIMATE OF REGENERATION OF SAFETY ZONES

UNIT : 50 Ha.
PERIMETER: 60 M/Ha.
LABOUR RATE: Rs.285/Man
COST ESTIMATE: Day
in Rs./Ha.

0 YEAR (ADVANCE ACTION)

S.No.	ITEM OF WORK	RATE (Rs.)	LABOUR	MATERIAL	TOTAL
1	Survey and demarcation of area also prepration of treatment map and accordingly prepare estimate of site	60/hact		6.83	79.09
			72.25		
2	Raising of 1210 seedilings in nursery.	4.70/seedling	3842.82	1841.96	5684.78
3	Digging of 500 pits size: 0.45x(.4+.5/2)2	22.29/pit	11145.77	0.00	11145.77
4	Cost of grass and other seeds of trees.	Prorata	0.00	258.58	258.58
5	Labour amenities	Prorata	196.69	25.06	221.75
6	Purchase of Tools and Plants	Prorata	0.00	20.50	20.50
7	Purchase of signboards and their fixing.	Prorata	21.41	97.96	119.37
8	Misc. and unforeseen expenditure	Prorata	1043.66	463.62	1507.28
	TOTAL YEAR 0		16322.61	2714.53	19037.13
	Administrative chages 10%				1903.71
				TOTAL	20940.85

PLANTING YEAR I (YEAR 1)

1	Digging of 600 pits of size 0.45(.4+.5/2)2.	22.29/pit	13374.93	0.00	13374.93
2	Maintenance of 1210 seedling in nursery	2.62/seedling	2811.20	363.38	3174.58
3	Restoration of natural regeneration by making crescent shaped mounds on the lower slopes of seedling and sapling and making ring trenches around the natural trees/shrubs.	804.15/ha.	804.15	0.00	804.15
4	Transportation of 1100 plants from nursery to planting site	1.77/plant	1886.62	72.90	1959.52
5	Application of insecticides and fertilizers in dug up 1100 pits.	0.51/seedling	559.30	0.00	559.30
6	Planting of 1100 seedlings including Refilling of pits	5.19/plant	5710.70	0.00	5710.70
7	Construction of 1100 crescent shaped mounds below planted sapling after planting and dibbling of 3 seeds of shrub species. on the mound.	4.54/plant	4989.51	0.00	4989.51
8	Spot watering & application of insecticides in 1100 plants in case of advance planting.	4.01/plant	4415.49	0.00	4415.49
9	Additional watering in case of long drought spell	4.01/plant	4415.49	0.00	4415.49
10	Weeding and hoeing of 1100 plants in 2 times.	4.52/plant	9949.58	0.00	9949.58
11	One additional hoeing of 1100 plants.	2.58/plant	2840.63	0.00	2840.63
12	Purchase of insecticide and Fertilizers.	0.88/plant	0.00	964.84	964.84
13	Labour amenties.	Prorata	184.65	37.59	222.24
14	Maintenance of Vehicles	Prorata	0.00	660.69	660.69
15	Misc. and unforeseen expenditure.	Prorata	1332.68	315.54	1648.21
	TOTAL		53274.93	2414.94	55689.87
16	Administrative charges 10%				5568.99
				Total	61258.86
				Grand Total	82199.70
				Say	82200.00

Note - Casualty replacement and subsequent maintenance will be done by the lessee at his own cost.

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COST ESTIMATE FOR FENCING OF SAFETY ZONE (Rate Rs./100m length)

S.No.	ITEM OF WORK	RATE (Rs.)	Labour	Material	TOTAL
1	INNER FENCING	27469.32/100 mt	14925.13	12544.18	27469.32
2	Administrative charges on grand total	10%	-	-	2746.93
				Total	30216.25
				Say	30220.00
1	OUTER FENCING	34123.73/100 mt	34123.73	0.00	34123.73
2	Administrative charges on grand total	10%	-	-	3412.37
				Total	37536.11
				Say	37500.00

I. Inner fencing : 3 stand barbed wire fencing with 1.5 m high, 50X50X6 at 5m distance.

II. Outer fencing : Ramdom rubble loose stone wall fencing of size 0.80 m at base, 0.60m at top and 1.20m high.


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Model Cost Norms - Canal side Plantation (Distributory)

Labour rate Rs. 285/- per day

Unit 100 RKM (33 ha.)

Perimeter - Average 6200 RM

250 plants per RKM

Spacing 3MX4M

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR 0 ADVANCE ACTION							
1	Collection of data for microplan, preparation of microplan and management plan	RKM	1	241.03	221.67	19.37	241.03
2	Survey of area, alignment of pits for fencing posts, marking of segments/ plots, preparation of plantation card and journal.	Prorata			176.43	19.37	195.79
3	Fencing on both sides of canal with Cement / Angle iron posts (1.5 mt high, 6 m apart having 4 strand barbed wire)- 62 meters	Meter	62	179.94	5626.11	5530.44	11156.55
4	Raising of 300 plants (250 for planting and 20% extra).	Plant	300	7.76	1535.59	793.65	2329.23
5	Purchase of irrigation equipments-					0.00	
a	Purchase of 5 HP engine	Prorata			0.00	332.62	332.62
b	Purchase of HDPE/ LGS pipe - (3 inch diameter) 2 m per RKM	Prorata			0.00	313.26	313.26
c	Purchase of PVC pipes of 3 inch dia & 1 inch dia	Prorata			0.00	195.93	195.93
6	Purchase of Tools & plants	Prorata			40.71	102.52	143.24
7	Purchase of Insecticides, Fertilizers - DAP/ NPK/Urea/ vermi compost	Prorata			0.00	240.35	240.35
8	Sign Board including Painting and Fixing	Prorata			15.08	67.21	82.29
9	Watch and Ward for 4 months	Prorata			297.06	0.00	297.06
10	R&M of Motor Vehicles	Prorata			0.00	117.33	117.33
11	Labour Amenities	Prorata			78.41	150.36	228.78
12	Site Clearance including removal of unwanted bushes	RKM	1	402.08	372.46	29.62	402.08
13	Cattle guard hut	RKM	1	461.91	342.30	119.61	461.91
14	Mulching (to be done on active dunes in 5 Ha area)	Prorata			401.11	0.00	401.11
15	Misc. and unforeseen expenditure.	Prorata			82.94	63.79	146.73
Total					9190	8095	17285
YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 300 Plants in Nursery.	Plant	300	2.74	653.01	169.73	822.74
2	Digging of 400 RMT trench (0.4mX0.15m) in command area-for irrigation	Meter	400	2.85	1140.00	0.00	1140.00
3	Transport of 275 plants upto site including loading and unloading (upto 5 kms)	Plant	275	2.12	553.41	30.76	584.17
4	Planting					0.00	
a	Lay out & digging of 45cmx 45cmx 45cm pits and planting of 125 seedlings including local transport and initial watering in command area.	Plant	125	17.25	2156.35	0.00	2156.35
b	Lay out & digging of 45cmx 45cmx45 cm pits and planting of 125 seedlings including local transport and initial watering with engine in uncommand area.	Plant	125	19.03	2206.11	173.15	2379.26

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5	Irrigation					0.00	
a	5 times through watercourse(Khala) or syphon in command area (125 Plants).	Plant	625	2.35	1470.24	0.00	1470.24
b	5 times through engine in uncommand area (125 Plant).	Plant	625	4.10	1706.98	854.34	2561.33
6	Treatment and sowing of seeds on trenches (400 m).	Meter	400	0.59	235.24	0.00	235.24
7	Weeding and hoeing of 250 Plants	Plant	250	3.92	980.16	0.00	980.16
8	Hoeing of 50% Plants 5 times (125 Plants)	Plant	625	2.35	1470.24	0.00	1470.24
9	Application of fertilisers and pesticides (250 plants)	Plant	250	0.65	101.03	60.37	161.41
10	Raising of 50 plants for replacement	Plant	50	7.76	255.93	132.27	388.21
11	Running & Maintenance of Vehicles	Prorata			0.00	77.46	77.46
12	Maintenance of equipments/watercourses	Prorata			0.00	77.46	77.46
13	Labour amenities	Prorata			116.11	19.37	135.48
14	Watch & ward for 12 months	Prorata			889.68	0.00	889.68
15	Misc and unforeseen expenditure	Prorata			37.70	23.92	61.62
Total					13972	1619	15591

YEAR 2 MAINTENANCE I

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 50 Plants for casualty replacement	Plant	50	2.74	108.84	28.29	137.12
2	Transport of 50 plants from nursery to site for casualty replacement including loading and unloading	Plant	50	2.11	101.03	4.56	105.59
3	Re-digging of Pits & Planting for casualty replacement including treatment, local transport and initial watering					0.00	
a	In command area (25 Plants)	Plant	25	12.18	304.60	0.00	304.60
b	In uncommand area (25 Plants)	Plant	25	13.96	313.65	35.31	348.96
4	Irrigation					0.00	
a	6 times through watercourse (Khala) or syphon in command area (125 Plants).	Plant	750	2.35	1764.29	0.00	1764.29
b	6 times through engine in uncommand area (125 Plants).	Plant	750	4.10	2058.33	1017.24	3075.57
5	Weeding and hoeing of 250 plants	Plant	250	3.92	980.16	0.00	980.16
6	Hoeing of 50% Plants 6 times (125 Plants)	Plant	750	2.35	1764.29	0.00	1764.29
7	Application of fertilisers and pesticides (250 plants)	Plant	250	0.65	101.03	60.37	161.41
8	Pruning of Plants as per requirement	Prorata			233.73	0.00	233.73
9	Purchase of PVC Pipes	Prorata			0.00	313.26	313.26
10	Watch & ward for 12 months	Prorata			889.68	0.00	889.68
11	Running & Maintenance of Vehicles/equipments	Prorata			0.00	175.42	175.42
12	Labour amenities	Prorata			87.46	41.01	128.47
13	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/watercourses repair	Prorata			87.46	41.01	128.47
Total					8795	1716	10511

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YEAR - 3 MAINTENANCE II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	6 times through watercourse(Khala) or syphon in command area (125 Plants).	Plant	750	2.35	1764.29	0.00	1764.29
b	6 times through engine in uncommand area (125 Plants).	Plant	750	4.10	2058.33	1017.24	3075.57
2	Hoeing of 50% Plants 6 times (125 plants)	Plant	750	2.35	1764.29	0.00	1764.29
3	Prunning of Plants as per requirement (125Plants)	Prorata			422.22	0.00	422.22
4	Purchase of PVC Pipe	Prorata			0.00	292.75	292.75
5	Watch & ward for 12 months	Prorata			889.68	0.00	889.68
6	Running & Maintenance of Vehicles	Prorata			0.00	77.46	77.46
7	Maintenance of equipments	Prorata			0.00	97.96	97.96
8	Labour amenities	Prorata			0.00	58.10	58.10
9	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/watercourses repair	Prorata			88.97	15.95	104.92
Total					6988	1559	8547
YEAR - 4 MAINTENANCE III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	4 times through watercourse (Khala) or syphon in command area (125 plants).	Plant	500	2.35	1176.19	0.00	1176.19
b	4 times through engine in uncommand area (125).	Plant	500	4.10	1372.22	677.78	2050.00
2	Hoeing of 50% Plants 4 times (125 Plants)	Plant	500	2.35	1176.19	0.00	1176.19
3	Prunning of Plants as per requirement	Prorata			750.95	0.00	750.95
4	Watch & ward for 12 months	Prorata			889.68	0.00	889.68
5	Running & Maintenance of Vehicles	Prorata			0.00	77.46	77.46
6	Maintenance of equipments	Prorata			0.00	77.46	77.46
7	Labour amenities	Prorata			28.65	7.97	36.62
8	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/watercourses repair	Prorata			58.81	31.90	90.70
Total					5453	873	6325
YEAR - 5 MAINTENANCE IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	2 times through watercourse(Khala) or syphon in command area (125 Plants).	Plant	250	2.35	588.10	0.00	588.10
b	2 times through engine in uncommand area (125 Plants).	Plant	250	4.10	686.11	338.32	1024.43
2	Hoeing of 50% Plants 2 times (125 Plants)	Plant	250	2.35	588.10	0.00	588.10
3	Prunning of Plants as per requirement	Prorata			744.92	0.00	744.92
4	Watch & ward for 12 months	Prorata			889.68	0.00	889.68
5	Running & Maintenance of Vehicles	Prorata			0.00	50.12	50.12
6	Maintenance of equipments	Prorata			0.00	50.12	50.12
7	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/watercourses repair	Prorata			82.94	38.73	121.67
Total					3580	477	4057

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YEAR - 6 MAINTENANCE V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
	2 times through watercourse (Khala) or syphon in command area (125 Plants).	Plant	250	2.35	588.10	0.00	588.10
2	Watch & ward for 12 months	Prorata			889.68	0.00	889.68
3	Misc works and unforeseen expenditure/watercourse repair	Prorata			84.44	36.45	120.90
Total					1562	36	1599

YEAR - 7 MAINTENANCE VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward for 6 months	Prorata			446.35	0.00	446.35
2	Repairing of fencing	Prorata			161.35	78.60	239.95
TOTAL					608	79	686
Grand Total					50147	14455	64602

Yearwise Cost Statement Canal side Plantation (Distributory)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				9190	8095	17285
2	YEAR 1 - PLANTING YEAR				13972	1619	15591
3	YEAR 2 - MAINTENANCE I				8795	1716	10511
4	YEAR 3 - MAINTENANCE II				6988	1559	8547
5	YEAR - 4 MAINTENANCE III				5453	873	6325
6	YEAR - 5 MAINTENANCE IV				3580	477	4057
7	YEAR - 6 MAINTENANCE V				1562	36	1599
8	YEAR - 7 MAINTENANCE VI				608	79	686
Grand Total					50147	14455	64602

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।


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Model Cost Norms - Canal side Plantation (Minor)

Labour rate Rs. 285/- per day
Unit 50 RKM (16.5 Ha)
Perimeter - Average 6200 RM

Average Perimeter=124m/ha
250 plants per RKM
Spacing 3MX4M

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR 0 ADVANCE ACTION							
1	Collection of data for microplan, preparation of microplan and management plan	RKM	1	241.03	221.67	19.37	241.03
2	Survey of area, alignment of pits for fencing posts, marking of segments/ plots, preparation of plantation card and journal.	Prorata			212.62	37.59	250.21
3	Fencing on both sides of canal with Cement / Angle iron posts (1.5 mt high, 6 m apart having 4 strand barbed wire)- 124 meters	Meter	124	179.77	11188.89	11103.02	22291.91
4	Raising of 300 plants (250 for planting and 20% extra).	Plant	300	7.76	1535.59	793.65	2329.23
5	Purchase of irrigation equipments						
a	Purchase of 5 HP engine	Prorata			0.00	664.11	664.11
b	Purchase of HDPE/ LGS pipe - (3 inch diameter) 3 m per RKM	Prorata			0.00	467.04	467.04
c	Purchase of PVC pipes of 3 inch dia & 1 inch dia	Prorata			0.00	387.30	387.30
6	Purchase of Tools & plants	Prorata			42.22	157.20	199.42
7	Purchase of Insecticides, Fertilizers - DAP/ NPK/Urea/ vermi compost	Prorata			0.00	239.22	239.22
8	Sign Board including Painting and Fixing	Prorata			28.65	136.69	165.35
9	Watch and Ward for 4 months	Prorata			592.62	0.00	592.62
10	R&M of Vehicles	Prorata			0.00	77.46	77.46
11	Labour Amenities	Prorata			102.54	165.17	267.71
12	Site Clearance including removal of unwanted bushes.	RKM	1	402.08	372.46	29.62	402.08
13	Cattle guard hut	RKM	1	463.05	342.30	120.75	463.05
14	Mulching (tobe done on active dunes in 2.5 Ha area)	Prorata			401.11	0.00	401.11
15	Misc. and unforeseen expenditure	Prorata			113.10	64.93	178.03
Total					15154	14463	29617

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YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 300 Plants in Nursery	Plant	300	2.18	653.01	0.00	653.01
2	Digging of 400 RMT trench (0.4mX0.15m) in command area-for irrigation	Meter	400	2.85	1140.00	0.00	1140.00
3	Transport of 275 plants upto site including loading and unloading (upto 5 kms)	Plant	275	2.13	553.41	33.03	586.45
4	Planting					0.00	
a	Laying out & digging of 45cmx 45cmx 45cm pit and planting of 125 seedlings including local transportation and initial watering in command area.	Plant	125	17.26	2157.86	0.00	2157.86
b	Laying out & digging of 45cmx 45cmx45 cm pit and planting of 125 seedlings including local transportation and initial watering with engine in uncommand area.	Plant	125	19.06	2207.62	174.29	2381.90
5	Irrigation					0.00	
a	5 times through watercourses (Khala) or syphon in command area (125 Plants).	Plant	625	2.35	1470.24	0.00	1470.24
b	5 times through engine in uncommand area (125 Plants).	Plant	625	4.10	1703.97	855.48	2559.45
6	Treatment and sowing of seeds on trenches (400 m).	Meter	400	0.59	235.24	0.00	235.24
7	Weeding and hoeing of 250 Plants	Plant	250	3.92	980.16	0.00	980.16
8	Hoeing of 50% Plants 5 times (125 Plants)	Plant	625	2.35	1470.24	0.00	1470.24
9	Application of fertilisers and pesticides-250 Plants	Plant	250	0.65	102.54	59.23	161.77
10	Raising of 50 plants for replacement	Plant	50	5.12	255.93	0.00	255.93
11	Running & Maintenance of Vehicles	Prorata			0.00	76.32	76.32
12	Maintenance of equipments	Prorata			0.00	76.32	76.32
13	Labour amenities	Prorata			116.11	19.37	135.48
14	Watch & ward for 12 months	Prorata			1779.37	0.00	1779.37
15	Misc and unforeseen expenditure/repair of watercourses	Prorata			45.24	28.48	73.72
Total					14871	1323	16193
YEAR 2 MAINTENANCE I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 50 Plants for casualty replacement	Plant	50	2.18	108.84	0.00	108.84
2	Transportation of 50 plants from nursery to site for casualty replacement including loading and unloading	Plant	50	2.14	102.54	4.56	107.10
3	Re-digging of Pits & Planting for casualty replacement including treatment, local transport and watering						
a	In command area (25 Plants)	Plant	25	12.18	304.60	0.00	304.60
b	In uncommand area (25 Plants)	Plant	25	13.96	313.65	35.31	348.96
4	Irrigation					0.00	
a	6 times through watercourses (Khala) or syphon in command area (125 Plants).	Plant	750	2.34	1753.73	0.00	1753.73
b	6 times through engine in uncommand area (125 Plants).	Plant	750	4.11	2055.32	1027.49	3082.81
5	Weeding and hoeing of 250 plants	Plant	250	3.91	977.14	0.00	977.14
6	Hoeing of 50% Plants 6 times (125 Plants)	Plant	750	2.34	1753.73	0.00	1753.73
7	Application of fertilisers and pesticides (250 plants)	Plant	250	0.65	102.54	59.23	161.77
8	Prunning of Plants as per requirement	Prorata			235.24	0.00	235.24
9	Purchase of PVC Pipes	Prorata			0.00	390.72	390.72
10	Watch & ward for 12 months	Prorata			1780.87	0.00	1780.87
11	Running & Maintenance of Vehicles/equipments	Prorata			0.00	173.15	173.15
12	Labour amenities	Prorata			0.00	59.23	59.23
13	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/repair of watercourses	Prorata			78.41	38.73	117.14
Total					9567	1788	11355

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YEAR - 3 MAINTENANCE II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	6 times through watercourses (Khala) or syphon in command area (125 Plants).	Plant	750	2.34	1753.73	0.00	1753.73
b	6 times through engine in uncommand area (125 Plants).	Plant	750	4.11	2055.32	1027.49	3082.81
2	Hoeing of 50% Plants 6 times (125 plants)	Plant	750	2.34	1753.73	0.00	1753.73
3	Prunning of Plants as per requirement	Prorata			422.22	0.00	422.22
4	Purchase of PVC Pipe	Prorata			0.00	292.75	292.75
5	Watch & ward for 12 months	Prorata			1780.87	0.00	1780.87
6	Running & Maintenance of Vehicles	Prorata			0.00	77.46	77.46
7	Maintenance of equipments	Prorata			0.00	97.96	97.96
8	Labour amenities	Prorata			0.00	59.23	59.23
9	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/repair of watercourses	Prorata			93.49	27.34	120.83
Total					7859	1582	9442
YEAR - 4 MAINTENANCE III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	4 times through watercourses (Khala) or syphon in command area (125 plants).	Plant	500	2.35	1176.19	0.00	1176.19
b	4 times through engine in uncommand area (125 plants).	Plant	500	4.10	1370.71	678.92	2049.63
2	Hoeing of 50% Plants 4 times (125 Plants)	Plant	500	2.35	1176.19	0.00	1176.19
3	Prunning of Plants as per requirement	Prorata			750.95	0.00	750.95
4	Watch & ward for 12 months	Prorata			1780.87	0.00	1780.87
5	Running & Maintenance of Vehicles	Prorata			0.00	77.46	77.46
6	Maintenance of equipments	Prorata			0.00	77.46	77.46
7	Labour amenities	Prorata			30.16	42.15	72.31
8	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/repair of watercourses	Prorata			63.33	29.62	92.95
Total					6348	906	7254

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YEAR - 5 MAINTENANCE IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	2 times through watercourses (Khala) or syphon in command area (125 Plants).	Plant	250	2.35	588.10	0.00	588.10
b	2 times through engine in uncommand area (125 Plants).	Plant	250	4.11	690.63	336.04	1026.68
2	Hoeing of 50% Plants 3 times (125 Plants)	Plant	375	2.35	882.14	0.00	882.14
3	Prunning of Plants as per requirement	Prorata			746.43	0.00	746.43
4	Watch & ward for 12 months	Prorata			1780.87	0.00	1780.87
5	Running & Maintenance of Vehicles	Prorata			0.00	50.12	50.12
6	Maintenance of equipments	Prorata			0.00	75.18	75.18
7	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/repair of watercourses	Prorata			52.78	33.03	85.81
Total					4741	494	5235
YEAR - 6 MAINTENANCE V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
	2 times through watercourse (Khala) or syphon in command area (125 Plants).	Plant	250	2.35	588.10	0.00	588.10
2	Watch & ward for 12 months	Prorata			1780.87	0.00	1780.87
3	Misc works and unforeseen expenditure	Prorata			66.35	19.37	85.71
Total					2435	19	2455
YEAR - 7 MAINTENANCE VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward for 6 months	Prorata			889.68	0.00	889.68
2	Repairing of fencing	Prorata			113.10	69.49	182.58
TOTAL					1003	69	1072
Grand Total					61978	20645	82623

Yearwise Cost Statement Canal side Plantation (Minor)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				15154	14463	29617
2	YEAR 1 - PLANTING YEAR				14871	1323	16193
3	YEAR 2 - MAINTENANCE I				9567	1788	11355
4	YEAR 3 - MAINTENANCE II				7859	1582	9442
5	YEAR - 4 MAINTENANCE III				6348	906	7254
6	YEAR - 5 MAINTENANCE IV				4741	494	5235
7	YEAR - 6 MAINTENANCE V				2435	19	2455
8	YEAR - 7 MAINTENANCE VI				1003	69	1072
Grand Total					61978	20645	82623

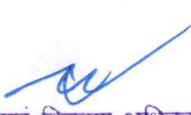
नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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DWARF/MEDICINAL PLANTATION MODEL UNDER COMPENSATORY AFFORESTATION PROJECT FOR HIGH VOLTAGE TRANSMISSION POWER LINE OF 46 METER WIDTH								
1	UNIT-5 (1.1Km length of Transmission Line)		5	Wage Rate - 285 Per Man Day				
2	No. of Plants/Ha. - 625 Dwarf Plants& 1375 Medicinal Plants		6	Period - 0 year +11 years				
3	Spacing-4x4 Mt. Dwarf Plants& 2x2 Mt. Medicinal Plants		7	Model Cost per Ha. Rs 714520.94				
4	Unit for Model Calculation-1 Ha.							
S.N.	Item of Work	BSR Item. No.	Qty.	Unit	Rate in Rs.	Labour Rs.	Material Rs.	Total Rs.
Year 0 ADVANCE WORK								
1	Survey, demarcation and layout	2.1.1C10:C20	1	Ha.	159.22	159.23	0.00	159.23
2	Dividing area in subplots, their marking on ground & preparation of map		1	Ha.	258.24	258.24	0.00	258.24
3	Layout for excavation of pits	2.1.3	2000	Nos.	1.06	2114.08	0.00	2114.08
4	Digging of pits							
	(i) 0.45x0.45x0.45 cm. Hard Soil upto 10% boulders	4.1.3	625	Nos.	16.66	10411.20	0.00	10411.20
	(ii) 0.30x0.30x0.30 cm.Hard Soil upto 10% boulders	4.1.3	1375	Nos.	5.32	7321.69	0.00	7321.69
5	Construction of loose stone check dam in nallahs lead upto 200 m.	3.5.1	50	Cum	323.99	16199.51	0.00	16199.51
6	Construction of thatched cattle guard hut (one time L.S.)	-	Prorata	-	-	0.00	8543.42	8543.42
7	Purchase of tools & plants (one time L.S.)	-	Prorata	-	-	0.00	1139.12	1139.12
8	Purchase of water storage tank (one time L. S.)	-	Prorata	-	-	0.00	5695.61	5695.61
9	Purchase of sign board and its fixing (one time L. S.)	-	Prorata	-	-	0.00	569.56	569.56
10	Miscellaneous & unforeseen exp.	-		-	-	0.00	4073.50	4073.50
	TOTAL					36463.94	20021.21	56485.15


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92

1st Year Operation (Planting year)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Amount
1	Purchase of medicinal/dwarf plants and transportation upto planting site		2200	Nos.	22.78	0.00	50121.37	50121.37
2	Treatment of pit soil with insecticide	8.4.1	2000	Nos.	0.60	1204.23	0.00	1204.23
3	Local transport and planting of Plants (in bags size 15x22.5) with treatment & initial watering.	8.4.3.2.2 + 8.5.1.3 + water charges	2000	Nos.	20.42	40836.62	0.00	40836.62
4	Making of crescent shaped thanwala, having 45 cm radius, around planted plants in stony hilly areas	8.4.4.3	2000	Nos.	10.29	20578.87	0.00	20578.87
5	Fertilizer application urea dose 2 time	8.4.4.5	4000 (2000x2)	Nos.	0.60	2408.45	0.00	2408.45
6	Purchase of fertilizer for plants	-	Prorata	-	-	0.00	2278.24	2278.24
7	Weeding and Hoeing of plants in plantations (in 45 cm radius and 15 cm depth) hard and bouldary soils 2 times	8.6.1.2	4000 (2000x2)	Nos.	5.82	23281.69	0.00	23281.69
8	Watering 3 times except rainy season 30 lit. per plants	8.5.1.3	6000 (2000x3)	Nos.	6.88	41264.79	0.00	41264.79
9	Purchase of water @ 300/tanker of 3000 lit.	-	30	Tanker	34.17	0.00	10252.10	10252.10
10	Hoeing of plants after every watering	8.6.2	6000 (2000x3)	Nos.	3.12	18705.63	0.00	18705.63
11	Purchase of Insecticide	-	Prorata	-	-	0.00	3417.37	3417.37
12	Watch & Ward for 12 month @ 5538/month (one C.G. for 5 ha.)	-	12 month	Month	1481.98	17783.73	0.00	17783.73
13	Miscellaneous exp.	-		-	-	0.00	9614.19	9614.19
	TOTAL					166064.01	75683.27	241747.28


 अधीक्षण एवं वित्तियन अधीकारी
 उप वन संरक्षक (प्रशासन)
 प्रधान मुख्य वन संरक्षक
 टी. आर. ई. ई. राज., जयपुर
 कोड सं. 19337


 (सेडिवीजनल ऑफिसर)
 मुख्य वन संरक्षक (आयोजना)
 राजस्थान, जयपुर

2nd Year Operation (1st year Maintenance)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Amount
1	Casualty replacement-20%							
	(a) Cost of Plants	-	440	Nos.	22.78	0.00	10024.27	10024.27
	(b) Redigging of pits					0.00	0.00	0.00
	(i) 0.45x0.45x0.45 Mt.	-	125	Nos.	8.72	1090.49	0.00	1090.49
	(ii) 0.30x0.30x0.30 Mt.	-	275	Nos.	2.62	721.20	0.00	721.20
	(c) Local transport and planting of plants (in bags size 15x22.5) with treatment & initial watering.	8.4.3.2.2 + 8.5.1.3 + water charges	400	Nos.	20.42	8167.32	0.00	8167.32
	(d) soil treatment	8.4.1	400	Nos.	0.60	240.85	0.00	240.85
2	Weeding and Hoeing of plants in 2 times	8.6.1.2	4000 (2000x2)	Nos.	5.82	23281.69	0.00	23281.69
3	Watering of Plants 4 times	8.5.1.3	8000	Nos.	6.88	55019.72	0.00	55019.72
4	Hoeing of plants after each watering (4 times)	8.6.2	8000 (2000x4)	Nos.	3.12	24940.85	0.00	24940.85
5	Repair of Thanwla	8.4.4.4	2000	Nos.	1.85	3692.96	0.00	3692.96
6	Cost of water @ 40/tanker of 4000 ltr.	-	40	Tanker	3.42	0.00	13669.46	13669.46
7	Watch & ward (1/5) for 12 months @ 1045x12 month	-	12	month	1481.98	17783.73	0.00	17783.73
8	Misc. & unforeseen exp.	-	-	-		0.00	5187.56	5187.56
	TOTAL					134938.80	28881.30	163820.10
3rd Year Operation (IInd year Maintenance)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Amount
1	Watering of plants 3 times	8.5.1.3	6000	Nos.	6.88	41264.79	0.00	41264.79
2	Hoeing of plants after each watering	8.6.2	6000 (2000x3)	Nos.	3.12	18705.63	0.00	18705.63
3	Repair of Thanwla once	8.4.4.4	2000	Nos.	1.85	3692.96	0.00	3692.96
4	Cost of water @ 300/tanker of 3000 ltr.	-	30	Tanker	341.74	0.00	10252.10	10252.10
5	Watch & ward (1/5) for 12 months @ 5538/5 = 1107.6x12	-	12	Month	1481.98	17783.73	0.00	17783.73
6	Misc. & unforeseen exp.	-	-	LS	-	0.00	5194.40	5194.40
	TOTAL					81447.11	15446.49	96893.61
4th Year Operation (3rd year Maintenance)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5538/5 = 1107.6x12	-	12	Month	1481.98	17783.73	0.00	17783.73
2	Misc. & unforeseen exp.	-	-	-	-	0.00	1663.12	1663.12
	TOTAL					17783.73	1663.12	19446.85

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5th Year Operation (4th year Maintenance)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5538/5 = 1107.6x12	-	12	Month	1481.98	17783.73	0.00	17783.73
2	Misc. & unforeseen exp.	-	-	-	-	0.00	1663.12	1663.12
	TOTAL					17783.73	1663.12	19446.85
6th Year Operation (5th year Maintenance)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5538/5 = 1107.6x12	-	12	Month	1481.98	17783.73	0.00	17783.73
2	Misc. & unforeseen exp.	-	-	-	-	0.00	1663.12	1663.12
	TOTAL					17783.73	1663.12	19446.85
7th Year Operation (6th year Maintenance)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5538/5 = 1107.6x12	-	12	Month	1481.98	17783.73	0.00	17783.73
2	Misc. & unforeseen exp.	-	-	-	-	0.00	1663.12	1663.12
	TOTAL					17783.73	1663.12	19446.85
8th Year Operation (7th year Maintenance)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5538/5 = 1107.6x12	-	12	Month	1481.98	17783.73	0.00	17783.73
2	Misc. & unforeseen exp.	-	-	-	-	0.00	1663.12	1663.12
	TOTAL					17783.73	1663.12	19446.85
9th Year Operation (8th year Maintenance)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5538/5 = 1107.6x12	-	12	Month	1481.98	17783.73	0.00	17783.73
2	Misc. & unforeseen exp.	-	-	-	-	0.00	1663.12	1663.12
	TOTAL					17783.73	1663.12	19446.85

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10th Year Operation (9th year Maintenance)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5538/5 = 1107.6x12	-	12	Month	1481.98	17783.73	0.00	17783.73
2	Misc. & unforeseen exp.	-	-	-	-	0.00	1663.12	1663.12
	TOTAL					17783.73	1663.12	19446.85
11th Year Operation (10th year Maintenance)								
S.N.	Details of Activities		Qty.	Unit	Rate	Labour	Material	Total
1	Watch & ward for 12 months 5538/5 = 1107.6x12	-	12	Month	1481.98	17783.73	0.00	17783.73
2	Misc. & unforeseen exp.	-	-	-	-	0.00	1663.12	1663.12
	TOTAL					17783.73	1663.12	19446.85

ABSTRACT OF YEARWISE MODEL COST

S. No.	Year	Labour	Material	Total
1	0 Year (Advance Work)	36463.94	20021.21	56485.15
2	Planting Year	166064.01	75683.27	241747.28
3	I Year Maintenance	134938.80	28881.3	163820.10
4	II Year Maintenance	81447.11	15446.49	96893.61
5	III Year Maintenance	17783.732	1663.118	19446.85
6	IV Year Maintenance	17783.732	1663.118	19446.85
7	V Year Maintenance	17783.732	1663.118	19446.85
8	VI Year Maintenance	17783.732	1663.118	19446.85
9	VII Year Maintenance	17783.732	1663.118	19446.85
10	VIII Year Maintenance	17783.732	1663.118	19446.85
11	IX Year Maintenance	17783.732	1663.118	19446.85
12	X Year Maintenance	17783.732	1663.118	19446.85
	TOTAL	561183.73	153337.2	714520.94

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Block Plantation_IGNP

Plantation Unit -12.5 ha (500 m X 250 m)

Perimeter-Average=1500 m

No. of Plants - 800 per ha.

Perimeter/ha=120 m

Spacing 3mX4M

Labour rate Rs. 285/- per day

Unit for Model calculation- per ha.

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
Year-O Advance Action							
1	Collection of data for microplanning, preparation of microplan and management plan	Prorata			108.57	62.65	171.22
2	Survey of area, alignment of pits for pole fixing, division of area into segments, preparation of treatment map and plantation card.	Prorata			475.00	107.08	582.08
3	Fencing of plantation area with 1.5 mt. high Angle iron / RCC Post and 4 strand barbed wire / local thorny material or 1.50 m angle iron post and two lines of wire and 1.2 M broad welded wiremesh (details given at annexure "A" for Angle Iron, annexure "B" for RCC Post, C for wire mesh) 120 M	RMT	120	179.64	10780.24	10776.09	21556.33
4	Raising of 960 plants	Plant	960	7.76	4913.88	2539.67	7453.55
5	Purchase of 8 HP Engine	Prorata			0.00	2606.31	2606.31
6	Purchase of PVC/HDPE Pipes of 3 inch dia and 1 inch dia	Prorata			0.00	2565.30	2565.30
7	Purchase of tools and plants	Prorata			54.29	357.68	411.97
8	Purchase of fertilizers and insecticides	Prorata			0.00	751.82	751.82
9	Purchase of Plantation Board including painting and fixing	Prorata			144.76	300.73	445.49
10	Watch and ward for four months	Prorata			2370.48	0.00	2370.48
11	R & M of Vehicle	Prorata			0.00	244.91	244.91
12	Labour amenities	Prorata			475.00	215.29	690.29
13	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			73.89	127.58	201.47
Total					19396	20655	40051

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राजस्थान, जयपुर

Year 1 Planting Year							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 960 Plants in nursery.	Plant	960	2.74	2089.64	543.13	2632.76
2	Raising of 160 Plants for casualty replacement.	Plant	160	7.76	818.98	423.28	1242.26
3	Transportation of 880 plants from Nursery to plantation site	Plant	880	2.12	1713.02	149.22	1862.24
4	Planting 800 plants - Planting Activity					0.00	
a	Un-command area- Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering 400 plants	Plant	400	15.40	6158.41	0.00	6158.41
b	Command area- Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering 400 plants	Plant	400	17.17	6318.25	549.06	6867.31
5	Removal of unwanted bushes and ploughing	Prorata			0.00	1654.01	1654.01
6	Digging of 1250 m trench of size 0.40 cm wide and 0.15 cm deep-for irrigation	RMT	1250	2.85	3563.25	0.00	3563.25
7	Levelling of area	Prorata			3251.11	0.00	3251.11
8	Watering of plants after replacement- 6 times				0.00	0.00	
a	400 plants by pump	Plant	400	24.67	6582.14	3284.09	9866.23
b	400 plants by Khala/syphon	Plant	400	14.11	5645.71	0.00	5645.71
9	Weeding and Hoeing 800 plants two times	Plant	1600	3.92	6273.02	0.00	6273.02
10	Hoeing 800 two times	Plant	1600	2.35	3763.81	0.00	3763.81
11	Application of urea and fertilisers	Plant	800	0.65	322.70	193.65	516.35
12	Purchase of PVC pipes	Prorata			0.00	2204.20	2204.20
13	Maintenance of engine	Prorata			0.00	586.65	586.65
14	Construction of cattle guard hut	Prorata			1425.00	977.37	2402.37
15	Watch and Ward charges	Prorata			7112.94	0.00	7112.94
16	R & M of Vehicles	Prorata			0.00	586.65	586.65
17	Labour amenities	Prorata			812.78	38.73	851.51
18	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			49.76	67.21	116.97
Total					55901	11257	67158


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 रातखान जयपुर

Year-2 Maintenance-I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 160 Plants in nursery.	Plant	160	2.74	348.27	90.52	438.79
2	Transportation of 160 plants	Plant	160	2.18	348.33	0.00	348.33
3	Re planting of 80 plants in hard soil in command area including digging of pits, treating with pesticides, fertilisers and watering	Plant	80	12.18	974.13	0.00	974.13
4	Re planting of 80 plants in sandy soil in un-command area including digging of pits, treating with pesticides, fertilisers and watering	Plant	80	13.95	999.76	116.19	1115.95
5	Watering of plants after replacement- 6 times					0.00	
a	400 plants by pump	Plant	2400	4.11	6579.13	3286.37	9865.49
b	400 plants by Khala/syphon	Plant	2400	2.35	5645.71	0.00	5645.71
6	Application of urea and fertilisers- 2 times, 800 plants	Plant	1600	0.65	645.40	387.30	1032.70
7	Weeding and Hoeing- 800 plants, 2 times	Plant	1600	3.92	6273.02	0.00	6273.02
8	Hoeing 800 plants two times	Plant	1600	2.35	3763.81	0.00	3763.81
9	Khala repair and cleaning	Prorata			616.75	0.00	616.75
10	R&M of vehicles	Prorata			0.00	390.72	390.72
11	Maintenance and repair of engine	Prorata			0.00	390.72	390.72
12	Watch and Ward charges	Prorata			7112.94	0.00	7112.94
13	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			28.65	10.25	38.90
Total					33336	4672	38008
Year-3 Maintenance-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants- 5 times						
a	400 plants by pump	Plant	2000	4.11	5484.37	2737.31	8221.68
b	400 plants by Khala/syphon	Plant	2000	2.35	4704.76	0.00	4704.76
2	Hoeing 800 plants two times	Plant	1600	2.35	3763.81	0.00	3763.81
3	Khala repair and cleaning	Prorata			488.57	0.00	488.57
4	Purchase of PVC pipes	Prorata			0.00	1202.91	1202.91
5	R&M of vehicles	Prorata			0.00	300.73	300.73
6	Application of urea and fertilisers- 2 times, 800 plants	Plant	1600	0.65	645.40	387.30	1032.70
7	Maintenance & repair of Engine	Prorata			0.00	451.09	451.09
8	Pruning and tending of 800 plants	Plant	800	2.35	1881.90	0.00	1881.90
9	Watch and Ward charges	Prorata			7112.94	0.00	7112.94
10	Miscellaneous expenditure (Labour, Instruments, Machine, repair of watercourse etc)	Prorata			119.13	61.51	180.64
Total					24201	5141	29342
Year-4 - Maintenance-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants 4 times						
a	400 plants by pump	Plant	1600	4.11	4385.08	2191.67	6576.75
b	400 plants by Khala/syphon	Plant	1600	2.35	3763.81	0.00	3763.81
2	Hoeing 800 plants two times	Plant	1600	2.35	3763.81	0.00	3763.81
3	Pruning and tending of 800 plants (2 times)	Plant	1600	2.35	3763.81	0.00	3763.81
4	R&M of vehicles	Prorata			0.00	166.31	166.31
5	Maintenance & repair of Engine	Prorata			0.00	375.91	375.91
6	Watch and Ward charges	Prorata			7112.94	0.00	7112.94
7	Miscellaneous expenditure/repair of watercourse	Prorata			168.89	101.38	270.27
Total					22958	2835	25794

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Year-5 Maintenance-IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants 2 times						
a	400 plants by pump	Plant	800	4.11	2192.54	1095.84	3288.38
b	400 plants by Khala/syphon	Plant	800	2.35	1881.90	0.00	1881.90
2	Pruning and tending of 500 plants	Plant	500	9.39	4697.22	0.00	4697.22
3	R&M of vehicles	Prorata			0.00	165.17	165.17
4	Maintenance & repair of Engine	Prorata			0.00	271.11	271.11
5	Watch and Ward charges	Prorata			7112.94	0.00	7112.94
6	Miscellaneous expenditure/repair of watercourse	Prorata			46.75	22.78	69.53
Total					15931	1555	17486

Year-6 Maintenance-V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants- 2 times						
a	400 plants by Khala/syphon	Plant	800	2.35	1881.90	0.00	1881.90
2	Pruning and tending of 450 plants	Plant	450	9.38	4220.71	0.00	4220.71
3	Watch and Ward charges	Prorata			7112.94	0.00	7112.94
4	Miscellaneous expenditure/repair of watercourse	Prorata			58.81	42.15	100.96
Total					13274	42	13317

Year-7 Maintenance-IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges four months	Prorata			2370.48	0.00	2370.48
2	Fencing repair	Prorata			230.71	111.63	342.35
Total					2601.19	111.63	2712.82
Grand Total					187599	46269	233868

Yearwise Cost Statement Block Plantation_IGNP

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				19396	20655	40051
2	YEAR 1 - PLANTING YEAR				55901	11257	67158
3	YEAR 2 - MAINTENANCE I				33336	4672	38008
4	YEAR 3 - MAINTENANCE II				24201	5141	29342
5	YEAR - 4 MAINTENANCE III				22958	2835	25794
6	YEAR - 5 MAINTENANCE IV				15931	1555	17486
7	YEAR - 6 MAINTENANCE V				13274	42	13317
8	YEAR - 7 MAINTENANCE VI				2601	112	2713
Grand Total					187599	46269	233868

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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Block Plantation_Non IGP (Afforestation Model I)

- 1 Plantation Unit -15 ha. (500 m X 300 m) 5 Perimeter - 1600 Meters
 2 No. of Plants - 500 per ha. 6 Perimeter per ha. 107 m
 3 Spacing 4mX5M 7 Labour rate Rs. 285/- per day
 4 Unit for Model calculation- per ha. 8 Period - 8 Years

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
Year-0 Advance Action							
1	Collection of data for microplanning, Preparation of microplan and management plan	Prorata	1		108.57	62.65	171.22
2	Survey of area, alignment of pits for pole fixing, division of area into segments, preparation of treatment map, plantation card and making of inspection path .	Prorata	1		475.00	108.22	583.22
3	Fencing of plantation area with 1.5 mt. high Angle iron / RCC Post and 4 strand barbed wire / local thorny material or 1.50 m angle iron post and two lines of wire and 1.2 M broad welded wiremesh (details given at annexure "A" for Angle Iron, annexure "B" for RCC Post, C for wire mesh)107 M	RMT	107	179.75	9628.17	9605.08	19233.25
4	Water and Soil Conservation measures in plantation area A. Digging V- ditch 200 RM/Ha.	RMT	200	29.09	5817.62	0.00	5817.62
	B. Construction of Check Dam/Nadi	Prorata			1663.25	752.96	2416.21
5	Raising of 550 plants					0.00	
a	Shady Plants (one year old) 110 Plants	Plant	110	9.82	759.93	320.55	1080.48
b	Thorny Plants(6 Months old) 440 plants	Plant	440	5.71	1464.68	1045.83	2510.51
6	Digging pits for 500 plants	PIT	500	15.20	7600.00	0.00	7600.00
7	Expenditure on purchase of pesticides	Prorata			0.00	538.80	538.80
8	Purchase of Nitrogen fertilizers	Prorata			0.00	268.83	268.83
9	Purchase of seeds of grasses (sewan/ dhaman) 2.5 KG and indigenous tree species (kumut, ber, khejari, raunj,etc.) 2.5 KG	Kg.	5.00	127.85	354.48	284.78	639.26
10	Construction of one water storage tank-50,000 liters capacity	Prorata			10151.43	4689.77	14841.19
11	Construction of cattle guard hut	Prorata			475.00	215.29	690.29
12	R & M of Vehicle	Prorata			0.00	108.22	108.22
13	Plantation Board	Prorata			21.11	279.08	300.20
14	Plantation Gate	Prorata			475.00	501.21	976.21
15	watch and ward for four months	Prorata			1978.41	0.00	1978.41
16	Expenditure on purchase of Material for irrigation measures except traditional system	Prorata			0.00	195.93	195.93
17	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			73.89	263.14	337.03
Total					41047	19240	60287

आहरण एवं वितरण अधिकारी
 उप वन संरक्षक (प्रशासन)
 प्रधान मुख्य वन संरक्षक
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 कोड सं. 19337

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 राजस्थान, जयपुर

Year-1 Planting Year							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery.						
a	Shady Plants 110 plants	Plant	110	2.37	207.38	53.71	261.09
b	Thorny Plants 440 plants	Plant	440	3.11	1085.98	283.03	1369.00
2	Raising of Plants for casualty replacement.					0.00	
a	One year old 22 Plants	Plant	22	9.82	151.99	64.11	216.10
b	Six months old 88 Plants	Plant	88	5.71	292.94	209.17	502.10
3	Transportation of 550 plants from Nursery to plantation site	Plant	550	3.66	1625.56	388.44	2014.00
4	Planting 500 plants - Planting Activity					0.00	
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala, and initial watering	Plant	500	25.23	12613.89	0.00	12613.89
5	Ploughing with tractor disc-plough in rows of 5 meter distance and sowing of seeds on trenches and in ploughed area-	Prorata			0.00	806.50	
	A.Ploughing with tractor in between plant rows						806.50
	B. Seeds sowing in ploughed area and on V-ditches	Prorata			1782.38	0.00	1782.38
6	Seed sowing of kumtha, ber, raunj,etc. near fencing or/and planting thor (as per availability near the site)	Prorata			260.87	0.00	260.87
7	Watering-					0.00	
a	450 plants four times per year (15 ltr. Per plant) (1800-200=1600)	Plant	1600	14.58	20646.67	2683.77	23330.44
b	200 plants from rain water available in tanka/s (one time)	Plant	200	9.82	1963.33	0.00	1963.33
8	Weeding and Hoeing 450 plants after rains	Plant	450	5.07	2280.00	0.00	2280.00
9	Hoeing of 450 plants after each watering (4 times)	Plant	1800	3.14	5645.71	0.00	5645.71
10	Protection cover for 50 plants from heat/cold	Plant	50	9.91	475.00	20.50	495.50
11	Pruning of 10% plants (50 plant)	Plant	50	2.74	137.22	0.00	137.22
12	Watch and Ward charges	Prorata			5933.73	0.00	5933.73
13	R & M of Vehicle	Prorata			0.00	182.26	182.26
14	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			90.48	225.55	316.02
Total					55193	4917	60110

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Year-2 Maintenance-I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery.						
a	One year old 22 Plants	Plant	22	2.37	41.48	10.74	52.22
b	Six months old 88 Plants	Plant	88	3.11	217.20	56.61	273.80
2	Transportation of 110 plants from nursery to plantation site	Plant	110	3.65	325.71	76.32	402.04
3	Planting of 100 plants after re-digging of pits, treating with pesticides, using chemical fertilizers and watering with local transportation and making of thanwlas, making thanwlas and planting,	Plant	100	32.38	3065.63	172.01	3237.64
4	Watering					0.00	
a	Watering 450 plants three times per year (15 ltr./ plant) (1350-200=1150)	Plant	1150	14.62	14936.11	1881.83	16817.94
b	200 plants from rain water available in tanka/s-one time	Plant	200	9.74	1948.25	0.00	1948.25
4	Weeding and Hoeing of 450 plants after rains	Plant	450	5.07	2280.00	0.00	2280.00
5	Hoeing of 450 plants after each watering (three times)	Plant	1350	3.14	4234.29	0.00	4234.29
6	Protection cover for 50 plants from heat/cold	Plant	50	9.93	475.00	21.64	496.64
7	Prunning of 70% plants (350 plant)	Plant	350	2.74	960.56	0.00	960.56
8	Repair of Fencing	Prorata			91.98	21.64	113.63
9	Expenditure of maintenance of vehicles and contract vehicles	Prorata			0.00	143.53	143.53
10	Watch and Ward charges	Prorata			5933.73	0.00	5933.73
11	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			73.89	200.49	274.37
Total					34584	2585	37169
Year-3 Maintenance-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering -A. 50 plants once per year (15 ltr. Per plant)	Plant	50	14.67	655.95	77.46	733.41
	B. 200 plants from rain water available in tanka/s	Plant	200	9.74	1948.25	0.00	1948.25
2	Weeding and Hoeing 250 plants after rains	Plant	250	5.07	1266.67	0.00	1266.67
3	Hoeing of 250 plants (one time)	Plant	250	3.14	784.13	0.00	784.13
4	Prunning of 20% plants (100 plants)	Plant	100	2.71	271.43	0.00	271.43
5	Watch and Ward charges	Prorata			5933.73	0.00	5933.73
6	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			170.40	53.54	223.94
Total					11031	131	11162
Year-4 Maintenance-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			5933.73	0.00	5933.73
2	Fencing repair	Prorata			95.00	21.64	116.64
3	Miscellaneous expenditure	Prorata			30.16	135.56	165.71
Total					6058.89	157.20	6216.09

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Year-5 Maintenance-IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			5933.73	0.00	5933.73
2	Fencing repair	Prorata			95.00	21.64	116.64
3	Miscellaneous expenditure	Prorata			33.17	135.56	168.73
Total					6061.90	157.20	6219.10

Year-6 Maintenance-V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			5933.73	0.00	5933.73
2	Fencing repair	Prorata			95.00	21.64	116.64
3	Miscellaneous expenditure	Prorata			33.17	135.56	168.73
Total					6061.90	157.20	6219.10

Year-7 Maintenance-VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			5933.73	0.00	5933.73
2	Fencing repair	Prorata			95.00	21.64	116.64
3	Miscellaneous expenditure	Prorata			33.17	135.56	168.73
Total					6061.90	157.20	6219.10
Grand Total					166099	27502	193601

Yearwise Cost Statement Block Plantation_Non IGNP (Afforestation Model I)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				41047	19240	60287
2	YEAR 1 - PLANTING YEAR				55193	4917	60110
3	YEAR 2 - MAINTENANCE I				34584	2585	37169
4	YEAR 3 - MAINTENANCE II				11031	131	11162
5	YEAR - 4 MAINTENANCE III				6059	157	6216
6	YEAR - 5 MAINTENANCE IV				6062	157	6219
7	YEAR - 6 MAINTENANCE V				6062	157	6219
8	YEAR - 7 MAINTENANCE VI				6062	157	6219
Grand Total					166099	27502	193601

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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COPPICE MAINTENANCE AND GAP PLANTING WITHOUT FENCING

Plantation Unit - 5 ha (1000 m X 50 m)

Perimeter-Average = 2100 m

No. of Plants - 200 per ha.

Perimeter/ha = 420 m

Labour rate Rs. 285 per day

Unit for Model calculation- per ha.

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
Year-O Advance Action							
1	Collection of data for microplanning, preparation of microplan and management plan	Prorata			108.92	58.55	167.47
2	Survey and demarkation control of area, division of area into segments, preparation of treatment map and plantation card.	Prorata			475.00	100.07	575.07
3	Raising of 240 plants	Plant	240	9.82	1718.03	638.76	2356.79
4	Singling of Coppice	Plants	520	2.13	1106.55	0.00	1106.55
5	Purchase of PVC/HDPE Pipes of 3 inch dia and 1 inch dia	Prorata			0.00	2397.48	2397.48
6	Purchase of tools and plants	Prorata			51.23	334.28	385.52
7	Purchase of fertilizers and insecticides	Prorata			0.00	372.61	372.61
8	Purchase of Plantation Board including painting and fixing	Prorata			136.61	281.05	417.67
9	Watch and ward for three months	Prorata			4446.27	0.00	4446.27
10	R & M of Vehicle	Prorata			0.00	106.46	106.46
11	Labour amenities	Prorata			66.90	53.23	120.13
12	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			69.72	119.24	188.96
Total					8179	4462	12641
Year 1 Planting Year							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 240 Plants in nursery.	Plant	240	2.20	423.89	104.76	528.64
2	Raising of 48 Plants for casualty replacement.	Plant	48	10.22	426.56	63.88	490.44
3	Transportation of 210 plants from Nursery to plantation site	Plant	220	2.01	420.14	21.29	441.43
4	Singling of Coppice	Plants	520	2.13	1106.55	0.00	1106.55
5	Plantating 200 plants - Planting Activity				0.00	0.00	0.00
a	Command area- Includes digging of pits; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering 100 plants	Plant	100	17.26	1726.06	0.00	1726.06
b	Un-command area- Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering 100 plants	Plant	100	18.97	1739.44	157.56	1897.00
6	Watering of plants 5 times				0.00	0.00	0.00
a	100 plants by pump	Plant	100	20.84	1552.11	532.30	2084.41
b	100 plants by Khala/syphon	Plant	100	11.77	1177.46	0.00	1177.46
7	Weeding and Hoeing 200 plants	Plant	200	3.92	784.08	0.00	784.08
8	Hoeing 200 five times	Plant	1000	2.35	2354.93	0.00	2354.93
9	Application of urea and fertilisers	Plant	200	0.67	101.69	31.94	133.63
10	Purchase of PVC pipes	Prorata			0.00	532.30	532.30
11	Maintenance of engine	Prorata			0.00	106.46	106.46
12	Construction of cattle guard hut	Prorata			1344.72	913.43	2258.15
13	Watch and Ward charges	Prorata			4446.27	0.00	4446.27
14	R & M of Vehicles	Prorata			0.00	745.22	745.22
15	Labour amenities	Prorata			267.61	36.20	303.80
16	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			46.96	62.81	109.78
Total					17918	3308	21226.61

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Year-2 Maintenance-I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 48 Plants in nursery.	Plant	48	2.20	84.78	20.95	105.73
2	Transportation of 44 plants	Plant	44	2.07	80.28	10.65	90.93
3	Re planting of 20 plants in hard soil in command area including digging of pits, treating with pesticides,fertilisers and watering	Plant	20	12.18	243.52	0.00	243.52
4	Re planting of 20 plants in sandy soil in un-command area including digging of pits, treating with pesticides,fertilisers and watering	Plant	20	13.89	245.93	31.94	277.87
5	Watering of plants after replacement- 6 times				0.00	0.00	0.00
a	100 plants by pump	Plant	600	4.16	1827.75	666.44	2494.19
b	100 plants by Khala/syphon	Plant	600	2.35	1412.96	0.00	1412.96
6	Application of urea and fertilisers- 2 times, 200 plants	Plant	400	0.64	149.86	106.46	256.32
7	Weeding and Hoeing- 200 plants, 2 times	Plant	400	3.92	1568.17	0.00	1568.17
8	Hoeing 200 plants six times	Plant	1200	2.35	2825.92	0.00	2825.92
9	R&M of vehicles	Prorata			0.00	106.46	106.46
10	Maintenance and repair of old engine	Prorata			0.00	365.16	365.16
11	Watch and Ward charges	Prorata			4446.27	0.00	4446.27
12	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			27.04	9.58	36.62
Total					12912	1318	14230.10
Year-3 Maintenance-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants- 5 times						
a	100 plants by pump	Plant	500	4.17	1552.11	532.30	2084.41
b	100 plants by Khala/syphon	Plant	500	2.35	1177.46	0.00	1177.46
2	Hoeing 200 plants five times	Plant	1000	2.35	2354.93	0.00	2354.93
3	Purchase of PVC pipes	Prorata			0.00	532.30	532.30
4	R&M of vehicles	Prorata			0.00	281.05	281.05
5	Application of urea and fertilisers- 2 times, 200 plants	Plant	400	0.64	149.86	106.46	256.32
6	Maintenance & repair of old engine	Prorata			0.00	106.46	106.46
7	Pruning and tending of 200 plants	Plant	200	2.35	470.99	0.00	470.99
8	Watch and Ward charges	Prorata			4446.27	0.00	4446.27
9	Miscellaneous expenditure (Labour, Instruments, Machine,repair of watercourse etc)	Prorata			112.42	57.49	169.91
Total					10264	1616	11880
Year-4 - Maintenance-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants 4 times						
a	100 plants by pump	Plant	400	4.27	1439.72	268.28	1708.00
b	100 plants by Khala/syphon	Plant	400	2.35	941.97	0.00	941.97
2	Hoeing 200 plants four times	Plant	800	2.35	1883.94	0.00	1883.94
3	Pruning and tending of 200 plants	Plant	200	9.38	1875.92	0.00	1875.92
4	R&M of vehicles	Prorata			0.00	155.43	155.43
5	Maintenance & repair of Engine	Prorata			0.00	117.11	117.11
6	Watch and Ward charges	Prorata			4446.27	0.00	4446.27
7	Miscellaneous expenditure/repair of watercourse	Prorata			159.37	94.75	254.12
Total					10747	636	11383

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Year-5 Maintenance-IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants 2 times						
a	100 plants by pump	Plant	200	4.31	754.65	106.46	861.11
b	100 plants by Khala/syphon	Plant	200	2.35	470.99	0.00	470.99
2	Pruning and tending of 100 plants	Plant	100	9.38	937.96	0.00	937.96
3	R&M of vehicles	Prorata			0.00	154.37	154.37
4	Maintenance & repair of Engine	Prorata			0.00	117.11	117.11
5	Watch and Ward charges	Prorata			4446.27	0.00	4446.27
6	Miscellaneous expenditure/repair of watercourse	Prorata			44.11	21.29	65.41
			Total		6654	399	7053

Year-6 Maintenance-V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants- 2 times						
a	100 plants by pump	Plant	200	4.31	754.65	106.46	861.11
b	100 plants by Khala/syphon	Plant	200	2.35	470.99	0.00	470.99
2	Pruning and tending of 100 plants	Plant	100	9.38	937.96	0.00	937.96
3	Watch and Ward charges	Prorata			4196.06	0.00	4196.06
4	Miscellaneous expenditure/repair of watercourse	Prorata			55.50	39.39	94.89
			Total		6415	146	6561

Year-7 Maintenance-VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges three months	Prorata			4446.27	0.00	4446.27
			Total		4446.27	0.00	4446.27
Grand Total					77537	11884	89421

Yearwise Cost Statement

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				8179	4462	12641
2	YEAR 1 - PLANTING YEAR				17918	3308	21227
3	YEAR 2 - MAINTENANCE I				12912	1318	14230
4	YEAR 3 - MAINTENANCE II				10264	1616	11880
5	YEAR - 4 MAINTENANCE III				10747	636	11383
6	YEAR - 5 MAINTENANCE IV				6654	399	7053
7	YEAR - 6 MAINTENANCE V				6415	146	6561
8	YEAR - 7 MAINTENANCE VI				4446	0	4446
Grand Total					77537	11884	89421

1. The Models just advisory guidelines and works are to be carriedout on the basis of site specific estimates.
2. This Model is to be implemented in areas which have been felled by the Department Operations Division.
3. Since the proposed area is not being fenced, suitable markers on the ground are to be essentially erected /created to delineate the areas.
4. Division taking up a proposed area for treatment as per this Model, will essentially draw a KML of the area and upload the same on the egreen watch website before commencing the Plantation activity.

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Model Cost Norms Afforestation-I in Banzar / Panchayat land

Labour rate Rs. 285/- per day

Unit - 15 Ha

Perimeter - Average 1600 RM

No. of Plants 500

Spacing 4MX5M (in interdunal Area)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for miroplanning, preparation of microplan and management plan	Prorata	1	445.86	355.87	89.99	445.86
2	Survey of area, alignment of pits for fencing posts, division of area into segments, preparation of treatment map, plantation Journal and card.	Prorata	1	583.22	475.00	108.22	583.22
3	Fencing of plantation area with 2.4 mt. Prestressed Concrete Post with welded wire mess and 4 strand barbed wire 107 M (only for Desert Area)	Meter	107	252.60	11896.58	17264.53	29161.12
4	Raising of plants 550 plants				0.00	0.00	
a	Shady Plants 110 Plants	Plant	110	9.82	759.93	320.55	1080.48
b	thorny plants 440 Plants	Plant	440	5.26	2546.73	1307.29	3854.02
5	Purchase of pesticides, nitrogen, fertilisers, etc.	Prorata	1	806.50	0.00	806.50	806.50
6	Digging of 100 pits ((0.4M+0.5M)/2)^2X0.45M)	Pit	100	10.13	1013.33	0.00	1013.33
7	Construction of 50 M Contour Dykes/ Check dam gali ploughing with cross section 30x30 cm on upper slopes and sowing of suitable thorny shrub species along the inner side	35.06 / rmt	50	35	1928.98	0.00	1929
8	Purchase of 4 kg seeds/ ha. (dhaman, styleo, karad, sevan etc.)	Kg.	4	113.91	0.00	455.65	455.65
9	Construction of water storage tanks/Water harvesting structures and other SMC works	Prorata	1	8889.01	6089.05	2799.96	8889.01
10	Construction of cattle guard hut (Jhempa)	Prorata	1	2175.72	1430.50	745.22	2175.72
11	Running and Maintenance of Vehicles	Prorata	1	64.93	0.00	64.93	64.93
12	Purchase of plantation board, its painting and fixing on site.	Prorata	1	424.09	57.30	366.80	424.09
13	Construction of plantation gate (including purchase of material)	Prorata	1	2193.83	1936.68	257.15	2193.83
14	Watch and Ward for 2 months.	Prorata	2	297.06	594.13	0.00	594.13
15	Miscellaneous expenditure like labour amenities, tools and plants, etc.	Prorata			251.83	166.31	418.14
Total					29336	24753	54089

आहरण एवं वितरण अधिकारी
उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
टी. आर. ई. ई. राज., जयपुर
कोड सं. 19337

(सेडूराम यादव)
मुख्य वन संरक्षक (आयोजना)
राजस्थान, जयपुर

YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery-						
a	shady plants 110 Plants	Plant	110	2.85	344.97	53.71	398.68
b	throny plants 440 Plants	Plant	440	2.85	1379.88	353.78	1733.67
2	Raising of Plants for casualty replacement. 20%				0.00	0.00	
a	One year old 20 Plants	Plant	20	9.02	198.51	93.25	291.76
b	Six months old 80 Plants	Plant	80	5.26	463.04	237.69	700.73
3	Making and sowing of pellets / balls-(100%)				0.00	0.00	
a	Making of pellets / balls total quantity will be 24 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	4	65.61	202.06	60.37	262.44
b	Sowing of pellets/ balls.	6 Kg.	4	285.00	1140.00	0.00	1140.00
4	Transportation of 550 plants from Nursery to Plantation site.	Plant	550	3.33	1936.19	469.32	2405.51
5	Planting in sandy soil- Planting Activity				0.00	0.00	
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering (400 plants)	Plant	400	24.17	12467.62	805.36	13272.98
6	Plantating in interdunal area- Planting Activity				0.00	0.00	
	Includes local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala and initial watering (100 Plants)	Plant	100	23.89	2239.29	149.22	2388.51
7	Watering of 500 plants, three time in a year (15 liters per watering)				0.00	0.00	
a	on uneven sand dunes 300 Plants	Plant	900	8.00	7922.78	2072.06	9994.84
b	on even surface (three) 100 plants	Plant	300	8.00	2640.93	293.89	2934.82
c	on even surface from water in tanka (once)100 plants	Plant	100	8.00	880.31	0.00	880.31
8	Weeding & Hoeing of 100 plants in inerdunal area-				0.00	0.00	
a	Weeding & Hoeing of plants after rains	Plant	100	4.60	506.18	0.00	506.18
b	Hoeing (three times) after every watering	Plant	300	4.60	1518.53	0.00	1518.53
9	5 M. distance plants rows in between Sowing of Treated Seeds by tractor disc plough/ manually(4kg)	5kg	5	400.00	2200.77	0.00	2200.77
10	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	Prorata	1	1172.42	1067.62	104.80	1172.42
11	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
12	Running & Maintenance of Vehicles	Prorata	1	108.22	0.00	108.22	108.22
13	Miscellaneous expenditure like labour amenities, tools and plants, etc.	Prorata			75.40	214.15	289.55
Total					40740	5016	45756

आहरण एवं वितरण अधिकारी
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राजस्थान जयपुर

YEAR 2 - Maintenance I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery-						
a	shady plants 20 Plants	Plant	20	2.17	47.76	15.62	63.38
b	thorny plants 80 Plants	Plant	80	2.85	250.89	64.32	315.21
2	Transportation of 100 plants from Nursery to Plantation site.	Plant	100	3.34	367.53	78.60	446.13
3	Purchase of 2 kg seeds/ ha. (dhaman kumat ,ber, sewan, etc.)	2 Kg.	2	107.00	0.00	227.82	227.82
4	Making and sowing of pellets / balls-(50%)				0.00	0.00	
a	Making of pellets / balls total quantity will be 12 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	2	60.08	132.22	60.37	192.60
b	Sowing of pellets/ balls.	6 Kg.	2	259.00	570.00	0.00	570.00
5	Planting in sandy soil- Planting Activity				0.00	0.00	
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertilisers, making of Thanwala and initial watering (80 Plants)	Plant	80	26.55	1995.00	128.72	2123.72
6	Planting in interdunal area- Planting Activity				0.00	0.00	
	Includes re-digging of pits in interdunal area ; local transportation, treatment of pit with pesticides and fertilisers, making of Thanwala and initial watering (20 plants)	Plant	20	29.28	554.92	30.76	585.68
7	Watering of 500 plants, thrice in a year (15 litres)				0.00	0.00	0.00
a	on sand dunes (three times) 300 plants	Plant	900	14.23	14092.64	3107.52	17200.17
b	on even surface/interdunal area (three times) 100 plants	Plant	300	14.23	4697.55	441.98	5139.53
c	on even surface from water in tanka (once) 100 plants	Plant	100	14.23	1565.85	0.00	1565.85
8	Weeding & Hoeing of plants in inerdunal area (100 plants)				0.00	0.00	
a	Weeding & Hoeing of plants after rains	Plant	100	4.60	506.18	0.00	506.18
b	Hoeing (four times) after every watering	Plant	400	4.60	2024.71	0.00	2024.71
9	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	prorata			1821.59	85.43	1907.02
10	Watch & ward	prorata			3555.71	0.00	3555.71
12	Running & Maintenance of Vehicles	prorata			0.00	85.43	85.43
13	Miscellaneous expenditure (labour amenities, Tool & plants, fencing repair, etc.	prorata			125.16	249.47	374.63
Total					32308	4576	36884

आहरण एवं वितरण अधिकारी
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राजस्थान, जयपुर

YEAR 3 - Maintenance II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Purchase of 2 kg seeds/ ha. (dhaman kumat ,ber, sewan, etc.)	1 Kg.	1	107.00	0.00	113.91	113.91
2	Making and sowing of pellets / balls-(25%)				0.00	0.00	
a	Making of pellets / balls total quantity will be 6 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	1	60.08	66.11	60.37	126.48
b	Sowing of pellets/ balls.	6 Kg.	1	259.00	285.00	0.00	285.00
3	Watering of 500 plants, once in a year (15 liters				0.00	0.00	
a	on uneven sand dunes (400 Plants)	Plant	400	8.00	3521.24	274.53	3795.76
b	on even surface from water in tanka (100 Plants)	Plant	100	8.00	880.31	0.00	880.31
4	Weeding & Hoeing of plants in interdunal area-				0.00	0.00	
a	Hoeing after watering	Plant	100	2.83	311.41	0.00	311.41
5	Prunning (100 plants)	Plant	100	2.77	304.81	0.00	304.81
6	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
7	Watch & ward	prorata	1	3555.71	3555.71	0.00	3555.71
8	Miscellaneous expenditure	prorata	1	279.23	84.44	194.79	279.23
Total					9318	644	9962
YEAR 4 - Maintenance III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					4120	44	4164

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YEAR 5 - Maintenance IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					4120	44	4164
YEAR 6 - Maintenance V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					4120	44	4164
YEAR 7 - Maintenance VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward for 6 months	Prorata	1	1779.37	1779.37	0.00	1779.37
3	Miscellaneous expenditure	Prorata	1	105.92	55.79	50.12	105.92
Total					2144	50	2194
Grand Total					126204.90	35172.00	161377

Yearwise Cost Statement- Afforestation-I in Banzar and Panchayat land

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				29336	24753	54089
2	YEAR 1 - PLANTING YEAR				40740	5016	45756
3	YEAR 2 - MAINTENANCE I				32308	4576	36884
4	YEAR 3 - MAINTENANCE II				9318	644	9962
5	YEAR - 4 MAINTENANCE III				4120	44	4164
6	YEAR - 5 MAINTENANCE IV				4120	44	4164
7	YEAR - 6 MAINTENANCE V				4120	44	4164
8	YEAR - 7 MAINTENANCE VI				2144	50	2194
Grand Total					126205	35172	161377

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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Model Cost Norms Afforestation-II in Banzar TreeLess Stony Land

Labour rate Rs. 285/- per day

Unit - 25 Ha

Perimeter - Average 2050 RM (625 MX400M)

No. of Plants 100

Spacing 4MX5M (in interdunal Area)

S.N.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for miroplanning, preparation of microplan and management plan	Prorata	1	445.86	355.87	89.99	445.86
2	Survey of area, alignment of pits for fencing posts, division of area into segments, preparation of treatment map, plantation Journal and card.	Prorata	1	583.22	475.00	108.22	583.22
3	Fencing of plantation area with 2.4 mt. Prestressed Concrete Post with welded wire mess and 4 strand barbed wire 82 M (only for Desert Area)	Meter	82	252.60	9117.01	13230.76	22347.77
4	Raising of plants 110 plants				0.00	0.00	
a	shady plants 20 Plants	Plant	20	9.02	198.51	320.55	519.06
b	thorny plants 90 Plants	Plant	90	9.02	893.29	1307.29	2200.58
5	Digging of 100 pits ((0.4M+0.5M)/2)^2X0.45M)	Pit	100	21.28	2341.62	0.00	2341.62
6	Digging up Trenches :				0.00	0.00	
a.	Digging up 100 rmt Contour Trenches with cross section size: 45cmx45cm Sqmt.	62.51/ rmt	100	62.51	6878.51	0.00	6878.51
b.	Construction of 50 M Contour Dykes/ Check dam gali ploughing with cross section 30x30 cm on upper slopes and sowing of suitable thorny shrub species along the inner side	35.06 / rmt	50	35	1928.98	0.00	1929
7	Purchase of 4 kg seeds/ ha.	Kg.	4	113.91	0.00	455.65	455.65
8	Purchase of pesticides, nitrogen fertilisers, etc.	Prorata	1	806.50	0.00	806.50	806.50
9	Construction of water storage tanks/Water harvesting structures and other SMC works	Prorata	1	8889.01	6089.05	2799.96	8889.01
10	Construction of cattle guard hut (Jhempa)	Prorata	1	1305.43	858.30	447.13	1305.43
11	Running and Maintenance of Vehicles	Prorata	1	64.93	0.00	64.93	64.93
12	Purchase of plantation board, its painting and fixing on site.	Prorata	1	424.09	57.30	366.80	424.09
13	Construction of plantation gate (including purchase of material)	Prorata	1	1316.96	1162.01	154.95	1316.96
14	Watch and Ward for 2 months.	Prorata	2	297.06	594.13	0.00	594.13
15	Miscellaneous expenditure like labour amenities, tools and plants, etc.	Prorata			251.83	166.31	418.14
Total					31201	20319	51520

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YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery-						
a	shady plants 20 Plants	Plant	20	2.85	62.72	53.71	116.43
b	thorny plants 90 Plants	Plant	90	2.85	282.25	353.78	636.03
2	Raising of Plants for casualty replacement. 20%				0.00	0.00	
a	One year old 22 Plants	Plant	22	9.02	218.36	93.25	311.61
3	Making and sowing of pellets / balls-(100%)				0.00	0.00	
a	Making of pellets / balls total quantity will be 24 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	4	65.61	202.06	60.37	262.44
b	Sowing of pellets/ balls.	6 Kg.	4	285.00	1140.00	0.00	1140.00
4	Transportation of 110 plants from Nursery to Plantation site.	Plant	110	3.33	403.07	469.32	872.39
5	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1425.00	0.00	1425.00
6	Plantating in interdunal area- Planting Activity				0.00	0.00	
	Includes local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala and initial watering (100 Plants)	Plant	100	23.89	2239.29	149.22	2388.51
7	Watering of 100 plants, three time in a year (15 liters per watering)				0.00	0.00	
a	on uneven sand dunes 50 Plants	Plant	150	8.00	1320.46	2072.06	3392.53
b	on even surface (three) 25 plants	Plant	75	8.00	660.23	293.89	954.13
c	on even surface from water in tanka (once) 25 plants	Plant	25	8.00	220.08	0.00	220.08
8	Weeding & Hoeing of 100 plants in inerdunal				0.00	0.00	
a	Weeding & Hoeing of plants after rains	Plant	100	4.60	506.18	0.00	506.18
b	Hoeing (three times) after every watering	Plant	300	4.60	1518.53	0.00	1518.53
9	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	Prorata	1	1172.42	1067.62	104.80	1172.42
10	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
11	Running & Maintenance of Vehicles	Prorata	1	108.22	0.00	108.22	108.22
12	Miscellaneous expenditure like labour amenities, tools and plants, etc.	Prorata			75.40	214.15	289.55
Total					14897	3973	18870

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YEAR 2 - Maintenance I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery-						
a	shady 20 Plants	Plant	20	2.17	47.76	15.62	63.38
b	throny 80 Plants	Plant	80	2.85	250.89	64.32	315.21
2	Planting in sandy soil- Planting Activity				0.00	0.00	
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertilisers, making of Thanwala and initial watering (80 Plants)	Plant	80	26.55	1995.00	128.72	2123.72
3	Purchase of 2 kg seeds/ ha. (dhaman kumat ,ber, sewan, etc.)	2 Kg.	2	107.00	0.00	227.82	227.82
4	Making and sowing of pellets / balls-(50%)				0.00	0.00	
a	Making of pellets / balls total quantity will be 12 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	2	60.08	132.22	60.37	192.60
b	Sowing of pellets/ balls.	6 Kg.	2	259.00	570.00	0.00	570.00
5	Watering of 100 plants, thrice in a year (15 litres per watering)				0.00	0.00	0.00
a	on sand dunes (three times) 50 plants	Plant	150	8.00	1320.46	3107.52	4427.99
b	on even surface/interdunal area (three times) 25 plants	Plant	25	8.00	220.08	441.98	662.06
c	on even surface from water in tanka (once) 25 plants	Plant	25	8.00	220.08	0.00	220.08
6	Weeding & Hoeing of plants in interdunal area				0.00	0.00	
a	Weeding & Hoeing of plants after rains	Plant	100	4.60	506.18	0.00	506.18
b	Hoeing (three times) after every watering	Plant	300	4.60	1518.53	0.00	1518.53
7	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	prorata			1821.59	85.43	1907.02
8	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
9	Watch & ward	prorata			3555.71	0.00	3555.71
10	Running & Maintenance of Vehicles	prorata			0.00	85.43	85.43
11	Miscellaneous expenditure (labour amenities, Tool & plants, fencing repair, etc.	prorata			125.16	249.47	374.63
Total					12593	4467	17059
YEAR 3 - Maintenance II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Purchase of 2 kg seeds/ ha. (dhaman kumat ,ber, sewan, etc.)	1 Kg.	1	107.00	0.00	113.91	113.91
2	Making and sowing of pellets / balls-(25%)				0.00	0.00	
a	Making of pellets / balls total quantity will be 6 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	1	60.08	66.11	60.37	126.48
b	Sowing of pellets/ balls.	6 Kg.	1	259.00	285.00	0.00	285.00
3	Watering of 50 plants, 50% Plant once in a year (15 litres per watering)-				0.00	0.00	
a	on uneven sand dunes (25 Plants)	Plant	25	8.00	220.08	274.53	494.61
b	on even surface from water in tanka (25 Plants)	Plant	25	8.00	220.08	0.00	220.08
4	Weeding & Hoeing of plants in interdunal area-				0.00	0.00	
a	Hoeing after watering	Plant	50	2.83	155.70	0.00	155.70
5	Pruning (50 plants)	Plant	50	2.77	152.40	0.00	152.40
6	Watch & ward	prorata	1	3555.71	3555.71	0.00	3555.71
7	Miscellaneous expenditure	prorata	1	279.23	84.44	194.79	279.23
Total					4388	469	4858

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YEAR 4 - Maintenance III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					4120	44	4164
YEAR 5 - Maintenance IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					4120	44	4164
YEAR 6 - Maintenance V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward	Prorata	1	3555.71	3555.71	0.00	3555.71
3	Miscellaneous expenditure	Prorata	1	299.27	254.84	44.43	299.27
Total					4120	44	4164
YEAR 7 - Maintenance VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	309.13	309.13	0.00	309.13
2	Watch & ward for 6 months	Prorata	1	1779.37	1779.37	0.00	1779.37
3	Miscellaneous expenditure	Prorata	1	105.92	55.79	50.12	105.92
Total					2144	50	2194
Grand Total					77582.90	29411.25	106994

Yearwise Cost Statement- Afforestation-II in Banzar TreeLess Stony Land

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				31201	20319	51520
2	YEAR 1 - PLANTING YEAR				14897	3973	18870
3	YEAR 2 - MAINTENANCE I				12593	4467	17059
4	YEAR 3 - MAINTENANCE II				4388	469	4858
5	YEAR - 4 MAINTENANCE III				4120	44	4164
6	YEAR - 5 MAINTENANCE IV				4120	44	4164
7	YEAR - 6 MAINTENANCE V				4120	44	4164
8	YEAR - 7 MAINTENANCE VI				2144	50	2194
Grand Total					77583	29411	106994

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

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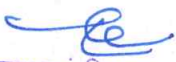
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ANR Rocky Areas							
Labour rate		Rs. 285/-			Unit area		50 ha.
Perimeter		3000mtrs			No. of plants		200 per ha.
0 YEAR (ADVANCE ACTION)							
S.No.	ITEM OF WORK	Unit	Qty.	RATE (Rs.)	LABOUR	MATERIAL	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest managment activities.	Prorata			665.00	53.88	718.88
2	Survey of area,layout of contour trenches, burrow pits and making of segments / plots	Prorata			521.44	53.88	575.32
3	Loose Stone wall fencing 1.20 m high 0.80 m at base & 0.60 at top (on an average 60 m/ha.)	meter	60	285.00	17100.00	0.00	17100.00
4	Top Coping of Loose Stone Wall with Cement Concrete (1:5:10) 10 cm height (1mtr X 0.60 mtr X 0.10 mtr = 0.06 cum)	cum	3.6	2956.00	2525.15	8116.45	10641.60
5	Cost of raising 220 seedlings	Plant nos.	220	9.02	1519.85	641.10	2160.96
6	Digging up Contour Trenches 45x45cm cross section 150 mtr per ha. (0.45x0.45x150 = 30.375cum per ha.)	cum	30.375	283.86	9487.80	0.00	9487.80
7	Digging of 200 pits size: 0.45x(0.4+0.5/2)	nos.	200	20.27	4460.97	0.00	4460.97
8	Cost of collection and purchase of grass and other seeds of indigenious trees and shrubs	per ha.	1	428	0.00	455.65	455.65
9	In situ Soil and moisture Conservation works including check dams, percolation tank, earthen bund etc.	per ha.	1	5455.93	5610.87	5455.93	11066.80
10	Construction of Thatched cattle guard hut	Prorata			285.00	38.85	323.85
11	Purchase of tools and plants	Prorata			0.00	96.48	96.48
12	Labour amenities	Prorata			105.57	75.18	180.75
13	Watch and ward for 4 months @ 285 per day	Prorata			693.24	0.00	693.24
14	Restoration of Natural Regeneration by cutback cultural operations, pruning and by making crescent shaped ridges on the lower side of seedlings and saplings	Prorata			1425.00	0.00	1425.00
15	Misc. and unforeseen expenses including POL for vehicles	Prorata			267.82	50.12	317.94
	TOTAL YEAR 0				44667.71	15037.53	59705.24


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	YEAR I (PLANTING YEAR)						
1	Maintenance of 220 seedlings in nursery	Plant nos.	220	2.37	414.76	107.42	522.18
2	Digging of 30cm X 30cm cross section trench along inner side of stone wall fencing and seed sowing	meter	60	23.85	1430.72	0.00	1430.72
3	Sowing/dibbling of seeds of grass /thorny trees species on the mounds of contour trenches. (300 m / ha.)	meter	300	0.64	191.47	0.00	191.47
4	Sowing of grass seeds including raking in interspaces	Prorata	1	645.93	645.93	0.00	645.93
5	Transportation of 200 plants from nursery to planting site in cluding loading and unloading	Plant nos.	200	1.59	271.27	47.62	318.89
6	Planting of 500 seedlings including Refilling of pits	Plant nos.	200	5.11	1002.66	20.05	1022.71
7	Purchase and application of insecticide and fertilizer in 200 plants	Plant nos.	200	5.38	875.60	200.49	1076.08
8	Making of 200 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	Plant nos.	200	4.53	906.51	0.00	906.51
9	Weeding and hoeing of 200 plants in 2 time. (Total 400 plants)	Plant nos.	400	4.53	1813.01	0.00	1813.01
10	Weeding on contour trenches including Singling/spacing in the line sowing.	Prorata			388.98	0.00	353.50
11	Restoration of natural regeneration by making crescent shapad mounds on the lower slopes of seedling and sapling and making ring tranches around the natural trees / shrubs.	Prorata			1425.00	0.00	1425.00
12	Raising of 10% plants (20) in nursery for casualty replacement	Plant nos.	20	9.82	138.16	58.29	196.45
13	Watch and ward for 12 months @ Rs.285 per day				2080.50	0.00	2080.50
14	Construction of Approach roads and Inspection Paths	Prorata			485.57	0.00	485.57
15	Construction of gate and fixing of sign boards	Prorata			646.00	0.00	646.00
16	Micellaneous and unforeseen expenditure including additional watering, running of vechile etc.	Prorata			111.42	92.84	188.46
	TOTAL YEAR 1				12412.80	419.28	12780.79


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FIRST YEAR MAINTENANCE (YEAR 2)							
1	Maintenance of 20 plants in nursery	Plant nos.	20	2.37	37.71	9.76	47.47
2	Repair of fencing			Prorata	285.00	0.00	285.00
3	Casualty replacement of 20 plants (10%) including redigging of pits, transportation planting, watering	Plant nos.	20	14.75	285.00	10.03	295.03
4	Weeding and hoeing of 200 plants in 2 time. (Total 1000 plants)	Plant nos.	400	4.53	1813.01	0.00	1813.01
5	Watch and ward for 12 months @285/ per day				2080.50	0.00	2080.50
6	Misc. and unforeseen expences including (forest protection measures and running of vechile etc.			prorata	46.58	23.86	64.74
TOTAL YEAR 2					4547.80	43.65	4585.75
Second Year maintenance (Year 3)							
1	Watch and ward for 12 months @ 285/ per day			prorata	2080.50	0.00	2080.50
2	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning /running of vechile etc.			prorata	281.39	73.96	325.20
Total Year 3					2361.89	73.96	2405.70
Third Year maintenance (Year 4)							
1	Watch and ward for 12 months @ 285/ per day			prorata	2080.50	0.00	2080.50
2	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning /running of vechile etc.			prorata	281.39	73.96	325.20
Total Year 4					2361.89	73.96	2405.70
Yearwise Cost statement of ANR (Rocky Areas)							
Sl.No.	Year	Labour cost	Material cost	Total Cost			
1	0 Year	44667.71	15037.53	59705.24			
2	First Year	12412.80	419.28	12832.07			
3	Second Year	4547.80	43.65	4591.45			
4	Third Year	2361.89	73.96	2435.85			
5	Fourth Year	2361.89	73.96	2435.85			
GRAND TOTAL		66352.08	15648.38	82000			


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