



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

क्रमांक एफ 3(13)प्रमुवसं/ट्री/तक0/21-22/ 1538-1552

दिनांक:- 22/11/2023

निमित्त,

- 1-परियोजना निदेशक, आर.एफ.बी.पी.-2 जयपुर।
- 2-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. 259/एवं सामग्री दर 2021

महोदय,

उपरोक्त विषयान्तर्गत निवेदन है कि श्रमिक दर 259/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:-

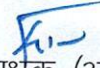
- 1- Compensatory Afforestation on Degraded Forest Land (CA DFL)
- 2- Compensatory Afforestation on Non-Forest Land (CA NFL)
- 3- The Construction For the Stone Masonary Boundarty Walls:1.20 Mt. Height
- 4- The Construction For the Stone Masonary Boundarty Walls: 1.80 Mt. Height
- 5- The Construction For the Brick Masonary Boundary Wall: 1.20 Mt. Height
- 6- The Construction For the Brick Masonary Boundary Wall: 1.80 Mt. Height
- 7- Grassland Development Desert Area (Without Planting)
- 8- Grassland Development Non-Desert Area (Without Planting)

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।




**MODEL COST ESTIMATE FOR COMPENSATORY AFFORESTATION  
ON DEGRADED FOREST LAND**

UNIT : 50 Ha  
PERIMETER: 60 M/Ha.  
LABOUR RATE: Rs. 259/Day  
COST ESTIMATE: in Rs./Ha.

**0 YEAR (ADVANCE ACTION)**

S.No.	ITEM OF WORK	RATE (Rs.)	LABOUR	MATERIAL	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest managment activities.	1309.88/ ha.	1209	101	1310
2	Survey of area,layout of contour trenches, burrow pits and making of segments / plots	771.26 / ha.	694	77	771
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.)	371.95 / rmt	7439	0	7439
	b.) Ditch fencing 1.20m deep,1.50m wide at top & 0.90m at bottom (on an average 20m/ha.)/Barwad wire fencing	280.69 / rmt	5614	0	5614
	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.)	200.0/rmt	800.00	3200	4000
4	Cost of raising 1100 seedlings	9.02/Plant	6910.00	3012	9922
5	Layout of staggered /contineous contour trenches, v-ditch, contour dykes and pits etc. by contour survey in the area	81.47/ha	81	0	81
6	Digging up 200 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	32.38 / rmt	6476	0	6476
7	Digging of 500 pits size: 0.45x(0.4+0.5/2)2 cum	20.27 / pit	10135	0	10135
8	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	250	250
9	In situ Soil and moisture Conservation works including check dams, percolation tank, earthen bund etc.	Prorata	4965.17	0	4965
10	Construction of Thatched cattle guard hut	Prorata	390.00	210	600
11	Construction of water storage tank.	Prorata	81	48	130
12	Labour aminities	Prorata	95	86	180
13	Watch and ward for 4 months @ 259 per day	Prorata	1264	0	1264
14	Construction of the pillars of appropriate size for gate.	Prorata	83	97	180
15	Construction of approach road / inspection path	Prorata	440	0	440
16	Purchase of signboards & fixing at site	Prorata	33	92	125
17	Misc. and unforeseen expenses including POL for vehicles	Prorata	288	108	396
	<b>TOTAL YEAR 0</b>		<b>46997</b>	<b>7282</b>	<b>54279</b>
18	Administrative charges 10%				5428
				<b>TOTAL</b>	<b>59707</b>


  
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**प्र.म.व.सं. टी.आर.ई.ई.**  
**राजस्थान, जयपुर**

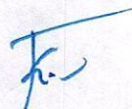
  
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**YEAR I ( PLANTING YEAR )**

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Maintenance of 1100 plants	2.17/plant	1884	504	2388
3	Digging of 500 pits of size 0.45 (4+5/2)*2 Cum	20.27 / pit	10135	0	10135
4	Sowing/dibbling of seeds of grass /thorny trees species on the mounds of contour trench and ditch fencing etc. ( 200 m / ha.)	0.58/m	116	0	116
5	Purchase and application of insecticides, fertilizer, plant growth hormone etc. in 1000 plants	4.92/plant	3978.60	941.6	4920
6	Sowing of pellats of grass/piece of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1012	62	1074
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.	Parota	1295	0	1295
8	Transportation of 1100 plants from nursery to planting site in cluding loading and unloading	3.65/plant	3398.11	616.53	4015
9	Planting of 1000 seedlings including Refilling of pits	7.75/plant	7750.00	0	7750
10	Making of 1000 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	7.20/plant	7200.00	0	7200
11	Watering with insecticide to the plants . (3 times) for 1000 plants (Total 3000 plants) min 15 lit.	8.0/plant	24000.00	0	24000
12	Weeding and hoeing of 1000 plants in 2 time. (Total 2000 plants)	4.65/ plant	9300	0	9300
13	Hoeing of the plants before watering of 1000 plants in 3 times (Total 3000 plants)	2.32/plant	6960.00	0	6960
14	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	4.56/rmt	1824.00	0	1824
15	Raising of 10% seedling (110 plants) in nursery for casulty replacement	9.02/plant	691.00	301	992
16	Watch and ward for 12 months @ Rs.259 per day	prorata	3781	0	3781
17	Labour aminties and hut repair.	Prorata	375	49	424
18	Micellaneous and unforeseen expenditure including running of vechile.	Prorata	179	32	211
	<b>TOTAL YEAR 1</b>		<b>83878</b>	<b>2579</b>	<b>86457</b>
19	Cost escalation in labour amount due to increase in labour rate @5%		4194	0	4194
20	Administrative charges 10%				8646
			<b>TOTAL</b>		<b>99296</b>

  
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### FIRST YEAR MAINTENANCE (YEAR 2)

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Maintenance of 110 plants .	2.17/plants	188	50	239
3	Repair of fencing	Prorata	259	0	259
4	Watering with insecticide to the plants . (3 times) for 1000 plants (Total 3000 plants) min 15 lit.	8.0/plant	24000.00	0	24000
5	Casualty replacement 100 plants including redigging of pits, transportation planting, watering	13.42/plant	1295.00	47.1	1342
6	Weeding and hoeing of 1000 plants in 2 time. (Total 2000 plants)	4.65/ plant	9300	0	9300
7	Hoeing of the plants before watering of 1000 plants in 3 times (Total 3000 plants)	2.32/plant	6960.00	0	6960
8	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	4.56/rmt	1824.00	0	1824
9	Watch and ward for 12 months @259/ per day	prorata / ha	7878	0	7878
10	Misc. and unforeseen expences including (forest protection measures and running of vechile etc.	prorata	390	238	628
<b>TOTAL YEAR 2</b>			<b>52095</b>	<b>408</b>	<b>52502</b>
10	<b>Cost escalation in labour amount due to increase in labour rate @10%</b>		<b>5209</b>	<b>0</b>	<b>5209</b>
11	Administrative Charges 10%				5250
<b>GRAND TOTAL</b>					<b>62962</b>

### Second Year maintenance (Year 3)


1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.0/plant	16000.00	0	16000
3	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.32/plant	4640.00	0	4640
4	Watch and ward for 12 months @ 259/ per day	prorata	7878	0	7878
5	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning /running of vechile etc.	prorata	798	289	1087
<b>Total Year 3</b>			<b>29316</b>	<b>362</b>	<b>29677</b>
<b>Cost escalation in labour amount due to increase in labour rate @15%</b>			<b>4397</b>	<b>0</b>	<b>4397</b>
Administrative charges 10%					2968
<b>GRAND TOTAL</b>					<b>37042</b>


### Third Year maintenance (Year 4)

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.0/plant	16000.00	0	16000
3	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.32/plant	4640.00	0	4640
4	Watch and ward for 12 months @ 259/ per day	prorata	7878	0	7878
5	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning/running of vechile etc.	prorata	798	289	1087
<b>Total Year 4</b>			<b>29316</b>	<b>362</b>	<b>29677</b>
6	<b>Cost escalation in labour amount due to increase in labour rate @20%</b>		<b>5863</b>	<b>0</b>	<b>5863</b>
7	Administrative charges 10%				2968
<b>GRAND TOTAL</b>					<b>38508</b>

### Fourth Year maintenance (Year 5)

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
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2	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.0/plant	16000.00	0	16000
3	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.32/plant	4640.00	0	4640
4	Watch and ward for 12 months @ 259/ per day	prorata	7878	0	7878
5	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning ,running of vechile etc.	prorata	798	289	1087
	<b>Total Year 5</b>		29316	362	29677
6	<b>Cost escalation in labour amount due to increase in labour rate @25%</b>		7329	0	7329
7	Administrative charges 10%				2968
	<b>GRAND TOTAL</b>				39974
	<b>SUBSEQUENT MAINTENANCE (YEAR 6 TO 12)</b>				
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Watch and ward for 12 months @ 259/ per day	prorata	7878	0	7878
3	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning/running of vechile etc.	prorata	798	289	1087
	<b>TOTAL YEAR 6-12.</b>		8676	362	9037
4	<b>Cost escalation in labour amount due to increase in labour rate @20%</b>		1735	0	1735
5	Administrative charges 10%				904
	<b>GRAND TOTAL</b>			<b>Total</b>	<b>11676</b>
	0 Year		59707		
	First Year		99296		
	Second Year		62962		
	Third Year		37042		
	Fourth Year		38508		
	Fifth Year		39974		
	Sixth year		11676		
	Seventh year		11676		
	Eighth year		11676		
	Ninth Year		11676		
	Tenth Year		11676		
	Eleventh Year		11676		
	Twelfth Year		11676		
	<b>TOTAL</b>		<b>419222</b>		
	<b>Say</b>		<b>420000</b>		

Note:

1. The model is prepared as per direction of MoEf & CC Goi New Delhi
2. The cost of NFL varies from 415000/- to 425000/- due to fencing cost. DCF/CCF may ensure the fencing with respect to protection measures.
3. If the total 1000 plants has not to be planted in proposed site, then area may be increase proportionally

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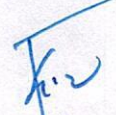
# MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION ON ALLOTTED NON FOREST LAND

UNIT : 25 Ha  
PERIMETER: 90 M/Ha.  
LABOUR RATE: Rs.259/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.	1309.88 / ha	1208.66	101.22	1310
2	Survey of area, lay out of contour trenches, burrowpits and making of segments / plots	771.26/ha	694.14	77.12	771
3	a) Construction of puccka wall 1.20 meter height 0.50 meter base and 0.38 meter top (30meter/ha.)	3059/rmt	60568.00	31202	91770
	b.) Loose Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (30m/ha.)	371.95/rmt	11158.50	0	11159
	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.)	200.0/rmt	1200.00	4800	6000
4	Digging of 500 pits size: 0.45x(.4+.5/2)2	20.27/ pit	10135.00	0	10135
5	Layout of of staggered/continuous contour trenches, V-ditches, contour dykes and pits etc. by contour survey in	81.47/ha	81.47	0	81
6	Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	32.38/rmt	12952.00	0	12952
7	In situ Soil and moisture Conservation works including check dams, percolation tank, earthen bund etc.	Prorata	4965.17	0	4965
8	Construction of the pillars of appropriate size and fixing of iron pipe gate with four square column	Prorata	82.69	97.37	180
9	Construction of approach road and inspection path	Prorata	285.75	0	286
10	Watch and ward @ 259 per day for 4 months	Prorata	1263.92	0	1264
11	Construction of Thatched cattle guard hut.	Prorata	390.00	210	600
12	Cost of grass and other seeds ( 3 kg grass seed and 3 kg tree species seed	Prorata	0.00	250	250
13	Labour aminities	Prorata	94.85	85.6	180
14	Construction of water storage tank.	Prorata	81.47	48.15	130
15	Purchase of signboards and their fixing	Prorata	32.83	92.02	125
16	Misc. and unforeseen expenses including running of vehicles	Prorata	154.43	162.64	317
	<b>TOTAL YEAR 0</b>		<b>43594.69</b>	<b>37126.12</b>	<b>142475</b>
17	Administrative charges 10%				<b>14247</b>
	<b>TOTAL</b>				<b>156722</b>

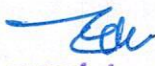
  
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**YEAR I ( PLANTING YEAR )**

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Digging of 500 pits of size 0.45 (4+5/2)*2 Cum	20.27/ pit.	10135.00	0	10135
3	Purchase/maintenece of 1100 seedling of 3 to 5 feet height plant	40/plant	0.00	44000	44000
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	1295.00	0	1295
5	Sowing of pellats of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1011.68	62.06	1074
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.)	0.58/ rmt.	232.00	0	232
7	Sowing of seeds of shrub spp. on 60 mt. "V" ditch	Prorata	42.56	3.21	46
8	Transportation of 1100 plants from nursery to planting site including loading and unloading	3.65/plant	3398.11	616.53	4015
9	Planting of 1000 seedlings including Refilling of pits	7.75/plant	7750.00	0	7750
10	Making of 1000 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	7.20/plant	7200.00	0	7200
11	Purchase and application of insecticides, fertilizer, plant growth hormone etc. in 1000 plants	4.92/plant	3978.60	941.6	4920
12	Watering with insecticide to the plants . (3 times) for 1000 plants (Total 3000 plants) min 15 lit.	8.0/plant	24000.00	0	24000
13	Weeding and hoeing of 1000 plants in 2 times. (Total 2000 plants)	4.65/plant	9300.00	0	9300
14	Hoeing of the plants before watering of 1000 plants in 3 times (Total 3000 plants)	2.32/plant	6960.00	0	6960
15	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the line sowing. (400 RMT)	4.56/rmt	1824.00	0	1824
16	Watch and ward @259 per day for 12 months	prorata	7877.92	0	7878
17	Special protection of frost tender species.	Prorata	42.56	36.38	79
18	Labour aminities.	Prorata	200.63	23.54	224
19	Micellaneous and unforeseen expenditure including running of vechile.	Prorata	160.51	117.7	278
	<b>TOTAL YEAR 1</b>		<b>85408.57</b>	<b>45873.78</b>	<b>131282</b>
20	<b>Cost escalation in labour amount due to increase in wage rate @5%</b>		<b>4270.43</b>	<b>0</b>	<b>4270</b>
21	Administrative charges 10%				13128
	<b>TOTAL</b>				<b>148681</b>

  
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**First Year Maintenance ( year 2)**

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Purchasing /maintenance of 110 seedlings for casulty replacement plant size (3 to 5 feet height)	40/plants	0.00	4400	4400
3	Casualty replacement 100 plants including redigging of pits, transportation planting, watering	13.42/plant	1295.00	47.1	1342
4	Sowing/dibbling of seeds of shurb species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (400 m.)	0.61/ rmt.	232.00	0	232
5	Watering with insecticide to the plants . (3 times) for 1000 plants (Total 3000 plants) min 15 lit.	8.0/plant	24000.00	0	24000
6	Weeding and Hoeing in 1000 plants in pits two times Total 2000 plants)	4.65/plant	9300.00	0	9300
7	Hoeing of the plants before watering of 1000 plants in 3 times (Total 3000 plants)	2.32/plant	6960.00	0	6960
8	Wedding on staggered/ continuous contour trenches and 'V' ditch including Singling/ spacement in the line sowing. (400 rmt.)	4.56/rmt	1824.00	0	1824
9	Repair of fencing	Prorata	237.11	9.63	247
10	Repairing of Check dams / WHS	Prorata	165.37	11.77	177
11	Pruning of Trees species to boost up the growth	Prorata	251.70	12.84	265
12	Wages of Chowkidar @ Rs.259/ day for 12 month (only applicable to work chage employee)	prorata	7877.92	0	7878
13	Misc. and unforeseen expenditure including running of vechile	prorata	147.13	67.41	215
<b>TOTAL YEAR 2</b>			<b>52290.24</b>	<b>4622</b>	<b>56912</b>
13	<b>Cost escalation in labour amount due to increase in wage rate @10%</b>		5229.02	0	5229
14	Administrative charges 10%				<b>5691</b>
	<b>TOTAL</b>				<b>67832</b>

**Second Year Maintenance (Year 3)**

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	72.76	73
2	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.0/plant	16000.00	0	16000
3	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.32/plant	4640.00	0	4640
4	Pruning of Trees species to boost up the growth	Prorata	125.24	4.28	130
5	Wages of Chowkidar @ Rs.259/ day for 12 month	prorata	7877.92	0	7878
6	Misc. and unforeseen expenditure including running of vechile	prorata	147.13	67.41	215
7	<b>Total Year 3</b>		<b>28790.29</b>	<b>144.45</b>	<b>28935</b>
8	<b>Cost escalation in labour amount due to increase in wage rate 15%</b>		4318.5435	<b>0.00</b>	4319
9	<b>Administrative charges 10%</b>				<b>2893</b>
	<b>Grand Total</b>				<b>36147</b>

  
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Third Year Maintenance (Year 4)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	72.76	73
2	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.0/plant	16000.00	0	16000
3	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.32/p'ant	4640.00	0	4640
4	Pruning of Trees species to boost up the growth	Prorata	125.24	4.28	130
5	Wages of Chowkidar @ Rs.259/ day for 12 month (only applicable to work chage employee)	prorata	7877.92	0	7878
6	Misc. and unforeseen expenditure including running of vechile	prorata	147.13	67.41	215
Total Year 4			28790.29	144.45	28935
7	Cost escalation in labour amount due to increase in wage rate 20%		5758.058	0.00	5758
8	Administrative charges 10%				2893
Grand Total					37586

Fourth Year Maintenance (Year 5)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	72.76	73
2	Watering with insecticide to the plants . (2 times) for 1000 plants (Total 2000 plants) min 15 lit.	8.0/plant	16000.00	0	16000
3	Hoeing of the plants before watering of 1000 plants in 2 times (Total 2000 plants)	2.32/plant	4640.00	0	4640
4	Pruning of Trees species to boost up the growth	Prorata	125.24	4.28	130
5	Wages of Chowkidar @ Rs.259/ day for 12 month (only applicable to work chage employee)	prorata	7877.92	0	7878
6	Misc. and unforeseen expenditure including running of vechile	prorata	147.13	67.41	215
Total Year 5			28790.29	144.45	28935
7	Cost escalation in labour amount due to increase in wage rate 25%		7197.5725	0.00	7198
8	Administrative charges 10%				2893
Grand Total					39026

SUBSEQUENT MAINTENANCE (YEAR 6 TO 12)					11569
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Pruning of Trees species to boost up the growth	Prorata	125.24	4.28	130
3	Wages of Chowkidar @ Rs. 259/- day for 12 month	prorata	7877.92	0	7878
4	Miscellaneous expenditure including Maintenance of Vehicles, repaire of fencing etc.	prorata	147.13	67.41	215
	TOTAL YEAR 6-12.		8150.29	144	8295
5	Cost escalation in labour component due to increase in wage rate @30%		2445.09	0	2445
6	Administrative charges 10%				829
				Total	11569

GRAND TOTAL	
0Year	156722
First Year	148681
Second Year	67832
Third Year	36147
Fourth Year	37586
Fifth Year	39026
Sixth Year	11569
Seventh Year	11569
Eighth year	11569
Ninth Year	11569
Tenth Year	11569
Eleventh Year	11569
Twelfth Year	11569
Total	566979
Say	567000

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- Note:
1. The model is prepared as per direction of MoEf & CC Goi New Delhi
  2. The cost of NFL varies from 476000/- to 733000/- due to fencing cost. DCF/CCF may ensure the fencing with respect to protection measures.
  3. If the total 1000 plants has not to be planted in proposed site, balance plants may be planted in Degarded Forest land



**MODEL ESTIMATE FOR THE CONSTRUCTION OF STONE MASONRY BOUNDARY WALL, (HEIGHT -1.20 Mt )**

**UNIT : 1 PER / RMT**

**COST : 3050 Rs/Rmt**

S.No.	PWD BSR CHAPTER/ITEM ITEM	PARTICULARS	NO.	L	B	H/D	UNIT	QUANTITY	RATE PER UNIT	AMOUNT IN RUPEES
1	Chapter 1/1.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	1	10	0.75		sqm	7.5	5	37.5
2	Chapter 1/1.6	earth work in excavation by mechanical means (Hydraulic Excavator)/manual means in foundataion trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sites and ramming of bottoms, lift upto 1.5m, including taking out the excavated soil and depositing and refilling of jhiri with watering & ramming and disposal of surplus excavated soil as directed with in lead of 50 meters. all kinds of soils.								
		(A) Pillar	2	0.45	0.65	0.6		0.351		
		(B) Boundary Wall	1	9.1	0.5	0.6		2.73		
		<b>Total</b>					cum	3.081	175	539.175
3	Chapter 3/3.1.7	Providing and lying in position cement concrete including curing compaction etc complete in specified grade excluding the cost of centering and shuttering. All works upto plinth level in 1:5:10 with aggregate 40 mm nominal size.								
		(A) Pillar	2	0.45	0.65	0.15		0.08775		
		(B) Boundary Wall	1	9.1	0.5	0.15		0.6825		
		<b>Total</b>					cum	0.77025	2956	2276.859
4	Chapter 6/6.1.6	Random rubble stone masonry with hard stone for foundation and plinth in cement sand mortar above 30cm thick wall in cement mortar 1:6								
		(A) Pillar	2	0.45	0.65	0.45		0.26325		
		(B) Boundary wall	1	9.1	0.5	0.45		2.0475		
		<b>Total</b>					cum	2.31075	2838	6557.9085

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5	chapter 6/6.2.6	Random rubble stone masonry with hard stone for superstructure and plinth in cement sand mortar above 30cm thick wall in cement mortar 1:6								
		(A) Pillar	2	0.45	0.53	1.2		0.5724		
		(B) Boundary wall	1	9.1	0.38	1.2		4.1496		
						<b>Total</b>	cum	4.722	3479	16427.838
6	chapter 12 / 12.1.1	plaster on new surface on stone masonry in cement sand mortar 1:6 including racking of joints etc complete fine finish 25 mm thick								
		(A) Pillar	4	0.15		1.2		0.72		
		(A) Pillar	4	0.45		1.2		2.16		
						<b>Total</b>	sqm	2.88	242	696.96
7	Chapter 12/12.30.1	pointing of stone masonry in cement sand mortar 1:3 Flush/Ruled								
		Boundary wall	2	9.1		1.2	sqm	21.84	80	1747.2
8	chapter 3/3.7.1	Providing and laying damp proof course with cement concrete Grade M -150 (1:2:4) mortar prepared with 1% solution of water proof compound complete as per specification 50 mm thick.								
		(A) Pillar	2	0.45	0.53			0.477		
		(B) Boundary wall	1	9.1	0.38			3.458		
						<b>Total</b>	sqm	3.935	391	1538.585
9		Total								29822.0255
		Miscellaneous expenditure								677.9745
		<b>Grand Total</b>								30500
								say cost of 10 m wall in Rs		30500
								therefore cost of per running meter wall		3050

Note : 1. This model is prepared on the basis of PWD BSR of Jaipur circle 2022. This is simply a guideline which is prepared for calculation of model construction.

2. Work should be completed by preparing estimate as per site conditions.

3. Rates per unit are for complete item including all leads of material, water, curing & finishing of work including tools etc.

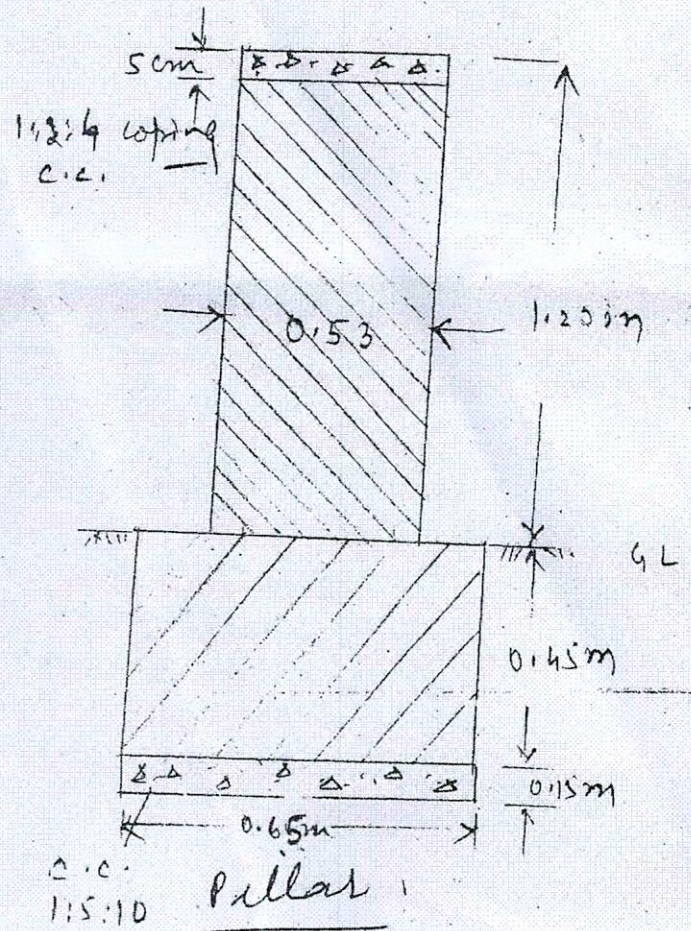
4. This model Cost estimate includes 9.09% contractor profit.

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(Not to scale.)



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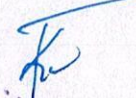
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Estimated Material Requirment for 10 Metre length of Wall(Height-1.20m)							
S.N.	Item	Unit	Quantity	Sand(cum)	Stone(cum)	Aggregate 40mm (cum)	cement (bags)
1	Cement in 1:5:10 with aggregate 10mm in foundation	(cum)	7.68	0.37	0	0.75	2.6
2	R.R stone in cement mortar 1:6 or foundation	(cum)	7.68	0.8	2.67	0	3.75
3	R.R. stone masonry in cement mortar 1:6 for superstructure	(cum)	4.72	1.65	5.38	0	7.55
4	Plaster on new surface on stone masonry in ciment mortar 1:6:25mm thice	(cum)	2.88	0.09	0	0	0.46
5	Flush/Ruled/struck of weathered pointing on stone masonry in cement sand mortar 1:3	(cum)	21.84	0.1	0	0	0.54
6	P/L 50mm thick DPC with cement conscrete mix 1:2:4	(cum)	3.935	0.1	0	0	1.3
Total				3.11	8.05	0.75	16.2

  
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**MODEL ESTIMATE FOR THE CONSTRUCTION OF STONE MASONRY BOUNDARY WALL, (HEIGHT -1.80Mt.)**

**LABOUR RATE : /- PER DAY**

**COST : 4000 Rs/Rmt**

S.No.	PWD BSR CHAPTER/ITEM	PARTICULARS	NO.	L	B	H/D	UNIT	QUANTITY	RATE PER UNIT	AMOUNT IN RUPEES
1	Chapter 1/1.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	1	10	0.75	-	sqm	7.5	5	37.5
2	Chapter 1/1.6	earth work in excavation by mechanical means (Hydraulic Excavator)/manual means in foundataion trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sites and ramming of bottoms, lift upto 1.5m, including taking out the excavated soil and depositing and refilling of jhiri with watering & ramming and disposal of surplus excavated soil as directed with in lead of 50 meters. all kinds of soils.								
		(A) Pillar	2	0.45	0.65	0.6		0.351		
		(B) Boundary Wall	1	9.1	0.5	0.6		2.73		
						<b>Total</b>	cum	3.081	175	539.175
3		Providing and lying in possition cement concrete including curing compaction etc complete in specified grade excluding the cost of centering and shuttering. All works upto plinth level in 1:5:10 with aggregate 40 mm nominal size.								
		(A) Pillar	2	0.45	0.65	0.15		0.08775		
		(B) Boundary Wall	1	9.1	0.5	0.15		0.6825		
	Chapter 3/3.1.7					<b>Total</b>	cum	0.77025	2956	2276.859
4		Random rubble stone masonry with hard stone for foundation and plinth in cement sand mortar above 30cm thick wall in cement mortar 1:6								
		(A) Pillar	2	0.45	0.65	0.45		0.26325		
		(B) Boundary wall	1	9.1	0.5	0.45		2.0475		
	Chapter 6/6.1.6					<b>Total</b>	cum	2.31075	2838	6557.9085

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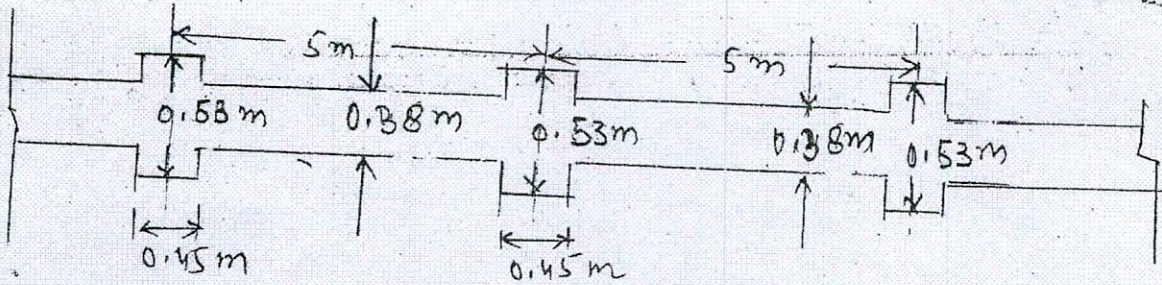
Note : 1. This model is prepared on the basis of PWD BSR of Jaipur circle 2022. This is simply a guideline which is prepared for calculation of model construction.  
2. Work should be completed by preparing estimate as per site conditions.  
3. Rates per unit are for complete item including all leads of material, water, curing & finishing of work including tools etc.  
4. **This model Cost estimate includes 9.09% contractor profit.**

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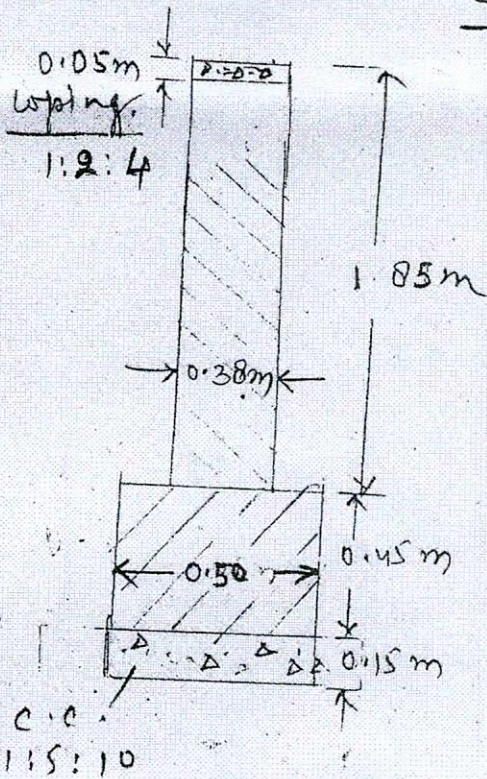
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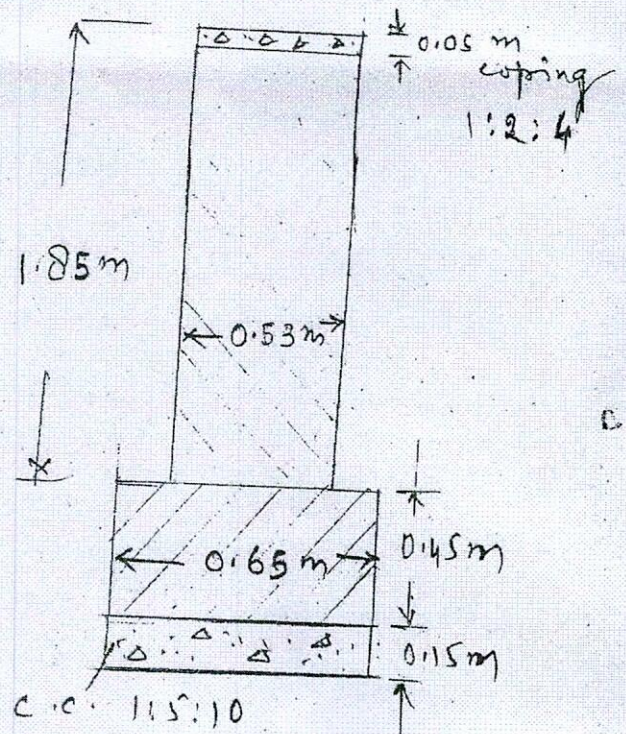
# PLAN



# CROSS-SECTION



# WALL



# PILLAR

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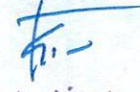
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Estimated Material Requirment for 10 Metre lenth of Wall(Height-1.80)							
S.N.	Item	Unit	Quantity	Sand (cum)	Stone( cum)	Aggregate 40mm (cum)	cement( bags)
1	Cement in 1:5:10 with aggregate 10mm in foundation	cum	7.68	0.37	0	0.75	2.6
2	R.R. stone in cement mortar 1:6 or foundation	cum	2.313	0.8	2.67	0	3.75
3	R.R. stone masonry in cement mortar 1:6 for superstructure	cum	7.08	2.45	8.08	0	11.35
4	Plaster on new surface on stone masonry in cement mortar 1:6:25mm thice	Sqm	4.32	0.15	0	0	0.69
5	Flush/Ruled/struck of weathered pointing on stone masonry in cement sand mortar 1:3	Sqm	32.76	0.15	0	0	0.78
6	P/L 50mm thick DPC with cement conscrete mix 1:2:4	Sqm	3.935	0.1	0	0	1.3
<b>Total</b>				4.02	10.75	0.75	20.47




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MODEL ESTIMATE FOR THE CONSTRUCTION OF BRICK MASONARY BOUNDARY WALL, (HEIGHT -- 1.20 Mt)											
Unit: 100 Mtr											
S.No	Intigrated PWD BSR-2022 CHAPTER/ITEM	PARTICULARS	Length	100 Mt.		Cost Per Mt.				3150	
			Unit	NO.	L	B	H/D	QUANTITY	RATE	AMOUNT in Rs	
1	Chapter 1/1.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	Sqm	1	100	2		200	5	1000	
2	Chapter 1/1.6	Earth work in excavation by mechanical means (Hydraulic Excavator)/manual means in foundataion trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sites and ramming of bottoms, lift upto 1.5m, including taking out the excavated soil and depositing and refilling of jhiri with watering & ramming and disposal of surplus excavated soil as directed with in lead of 50 meters. all kinds of soils.									
		(A) Pillar									
		(B) Boundary Wall		1	100	0.6	0.6	36			
							Total	36	175	6300	
3	Chapter 3/3.1.7	Providing and lying in possition cement concrete including curing compaction etc complete in specified grade excluding the cost of centering and shuttering. All works upto plinth level in 1:5:10 with aggregate 40 mm nominal size.									
		(A) Pillar									
		(B) Boundary Wall	Cum	1	100	0.6	0.15	9.00			
							Total	9.00	2956	26604	

  
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4	Chapter 5/5.1.1	Brick masonry with F.P.S bricks of class designation 75 in foundation and plinth with bricks								
		Cement mortar 1:4								
		(B) Boundary wall	Cum	1	100	0.45	0.15	6.75		
				1	100	0.35	0.30	10.5		
							<b>Total</b>	<b>17.25</b>	4469	77090.25
5	chapter 5/5.2.1	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in : Cement mortar 1:4								
		(A) Pillar	Cum	20	0.35	0.35	1.2	2.94		
		(B) Boundary wall	Cum	1	93	0.23	1.2	25.668		
							<b>Total</b>	<b>28.61</b>	5196	148647.168
6	chapter 3/3.7.1	Providing and laying damp proof course or coping with cement concrete Grade M -15 (1:2:4) mortar prepared with 1% solution of water proof compound complete as per specification 50 mm thick.								
		(A) Pillar	Sqm	20	0.35	0.35		2.45		
		(B) Boundary wall	Sqm	1	93	0.23		21.39		
							<b>Total</b>	<b>23.84</b>	391	9321.44
6	chapter 12 / 12.1.1	Plaster on new surface on walls in cement sand mortar 1:6 including racking of joint etc. complete fine finish : 12 mm thick								
		(A) Pillar	Sqm	40	0.35		1.2	16.80		
		(B) Pillar	Sqm	80	0.06		1.2	6.00		
		(C) Wall	Sqm	2	93		1.2	223.20		
							<b>Total</b>	<b>246.00</b>	163	40098
7		Miscellaneous expenditure								5939.142
		<b>Grand Total</b>								
										<b>315000</b>
			<b>therefore cost of per running meter wall</b>							<b>3150</b>

Note : 1. This model is prepared on the basis of PWD BSR of Jaipur circle 2022. This is simply a guideline which is prepared for calculation of model construction.

2. Work should be completed by preparing estimate as per site conditions.

3. Rates per unit are for complete item including all leads of material, water, curing & finishing of work including tools etc.

4. This model Cost estimate includes contractor profit as per norms

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## Material Consumption Statement for 4 Feet Bricks Wall

Unit : 100      Meter

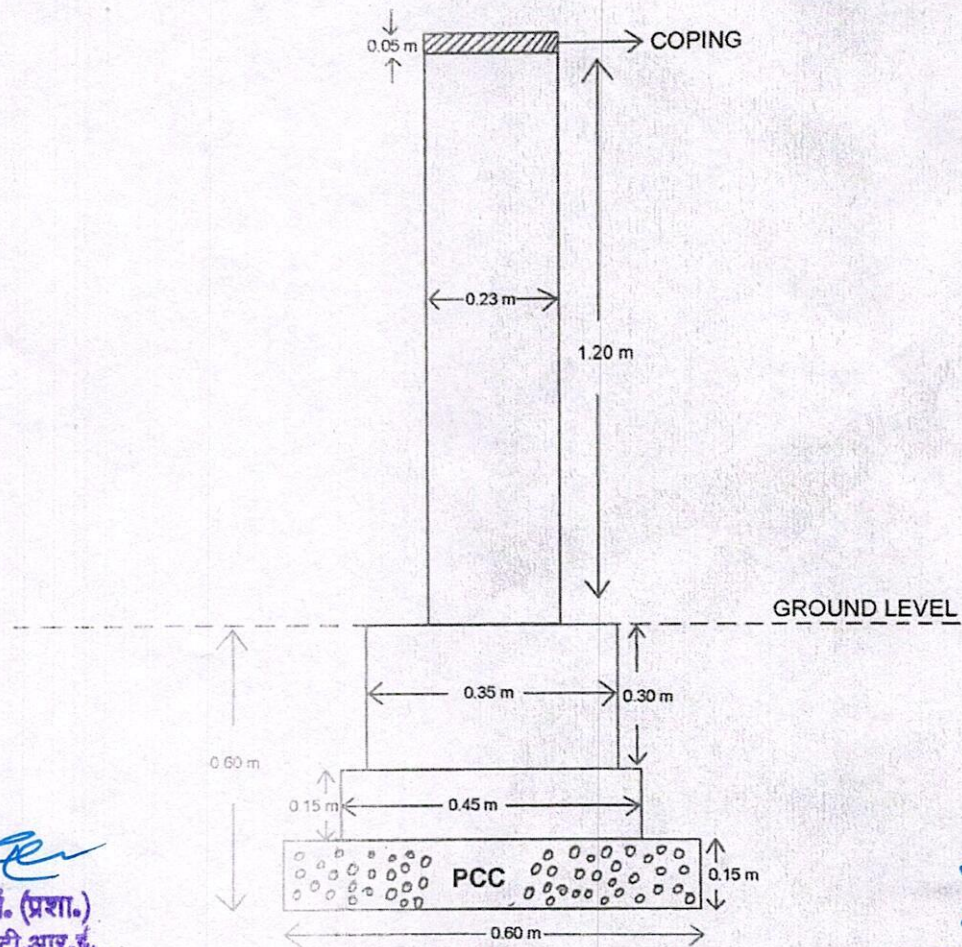
SN	Item	Unit	Quantity	Cement in Bags	Sand in Cum	Aggregate 40 mm in Cum	Aggregate 20 mm in Cum	Bricks in No.
1	Providing and lying in position cement concrete including curing compaction etc complete in specified grade excluding the cost of centering and shuttering. All works upto plinth level in 1:5:10 with aggregate 40 mm nominal size.	Cum	9.00	25	4.41	8.82	0	0
2	Brick masonry with F.P.S. bricks of class designation 75 in foundation and plinth with bricks	Cum	17.25	31	4.37	0	0	8159
3	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in : Cement mortar 1:4	Cum	28.61	51	7.26	0	0	13533
4	Providing and laying damp proof course or coping with cement concrete Grade M -15 (1:2:4) mortar prepared with 1% solution of water proof compound complete as per specification 50 mm thick.	Sqm	23.84	7.6	0.584	0	1.168	0
5	Plaster on new surface on walls in cement sand mortar 1:6 including racking of joint etc. complete fine finish : 12 mm thick	Sqm	246.00	17.22	3.616	0	0	0
			<b>Total</b>	<b>133</b>	<b>20.24</b>	<b>8.82</b>	<b>1.168</b>	<b>21692</b>

  
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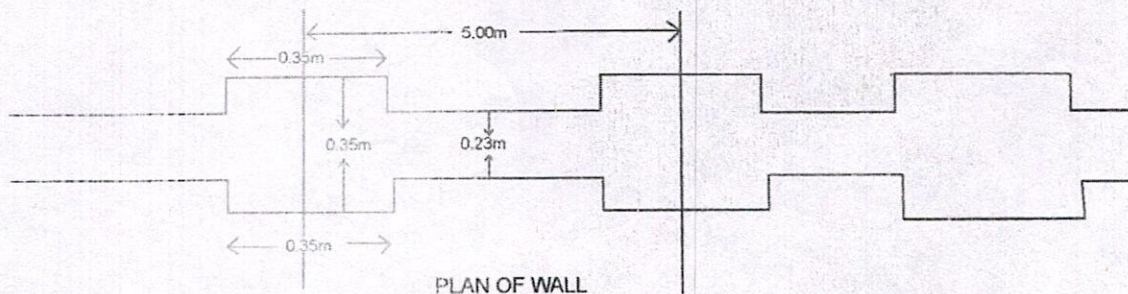
  
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# BRICK WALL OF HEIGHT- 4 FEET OR 1.20m



SECTION OF WALL



PLAN OF WALL

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## वन क्षेत्रों एवं पौधशाला की सुरक्षा हेतु ईंटों की दिवार

वन विभाग में वर्तमान में वन क्षेत्रों, संरक्षित क्षेत्रों एवं पौधशाला की सुरक्षा हेतु 4 फीट एवं 6 फीट उचाई की पत्थर की दिवार बनाई जाती है। 4 फीट एवं 6 फीट उचाई की पत्थर की दिवार का मॉडल नॉर्म्स भी विभाग में अनुमोदित है। वनमण्डल श्रीगंगानगर, अनूपगढ़ हनुमानगढ़ छत्तरगढ़ तथा इंगानप स्टेज-II बीकानेर में कोई पहाड़ी क्षेत्र नहीं होने के फलस्वरूप दिवार निर्माण हेतु आवश्यक पत्थरों की उपलब्धता नहीं है। पत्थरों का स्रोत भी इन वनमण्डलों से 200-300 किमी दूर है। राजस्थान के इस भू-भाग में पत्थरों की दिवार निर्माण का प्रचलन नहीं होने के कारण पत्थर दिवार निर्माण के कुशल कारीगर भी आसानी से उपलब्ध नहीं हैं। जबकि इन क्षेत्रों में ईंटों के भट्टे बहुतायत में मौजूद हैं।

अतः वनमण्डल श्रीगंगानगर, अनूपगढ़ हनुमानगढ़ छत्तरगढ़ तथा इंगानप स्टेज-II बीकानेर में वन क्षेत्रों, संरक्षित क्षेत्रों एवं पौधशाला की सुरक्षा हेतु 4 फीट एवं 6 फीट उचाई की ईंटों की दिवार के मॉडल कोस्ट नॉर्म्स को वैकल्पिक तौर पर शामिल किया जाना उचित प्रतीत होता है।

4 फीट एवं 6 फीट उचाई की ईंटों की दिवार के मॉडल कोस्ट नॉर्म्स, आवश्यक सामग्री का आकलन तथा दिवार का सेक्शन एवं प्लान संलग्न प्रेषित हैं।

  
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# MODEL ESTIMATE FOR CONSTRUCTION OF BRICK MASONRY BOUNDARY WALL, (HEIGHT -- 1.80 Mt)

Unit: 100 Mtr

Unit: 100 Mtr											
S.No	Intigrated PWD BSR-2022 CHAPTER/ITEM	PARTICULARS	Length	100 Mt.		Cost Per Mt.			4100		
			Unit	NO.	L	B	H/D	QUANTIT Y	RATE	AMOUNT in Rs	
1	Chapter 1/1.31	Clearing jungle including uprooting of rank vegetation, grass,brush wood, trees and saplings of girth upto 30 cm measuredat a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	sqm	1	100	2.00		200	5.00	1000	
2	Chapter 1/1.6	Earth work in excavation by mechanical means (Hydraulic Excavator)/manual means in foundataion trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sites and ramming of bottoms, lift upto 1.5m, including taking out the excavated soil and depositing and refilling of jhiri with watering & ramming and disposal of surplus excavated soil as directed with in lead of 50 meters. all kinds of soils.									
		(A) Pillar									
		(B) Boundary Wall		1	100	0.60	0.60	36.00			
							Total	36.00	175	6300	
3	Chapter 3/3.1.7	Providing and lying in possition cement concrete including curing compaction etc complete in specified grade excluding the cost of centering and shuttering. All works upto plinth level in 1:5:10 with aggregate 40 mm nominal size.									
		(A) Pillar									
		(B) Boundary Wall		1	100	0.60	0.15	9.00			
							Total	9.00	2956	26604	
4	Chapter 5/5.1.1	Brick masonry with F.P.S. bricks of class designation 75 in foundation and plinth with bricks : In Cement mortar 1:4									
		(B) Boundary wall		1	100	0.45	0.15	6.75			
				1	100	0.35	0.30	10.50			
							Total	17.25	4469	77090.25	

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5	chapter 5/5.2.1	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes : In Cement mortar 1:4								
		(A) Pillar		20	0.35	0.35	1.80	4.41		
		(B) Boundary wall		1	93	0.23	1.80	38.50		
							<b>Total</b>	<b>42.91</b>	5196	222970.752
6	chapter 3/3.7.1	Providing and laying damp proof course with cement concrete Grade M -150 (1:2:4) mortar prepared with 1% solution of water proof compound complete as per specification 50 mm thick.								
		(A) Pillar		20	0.35	0.35		2.45		
		(B) Boundary wall		1	93	0.23		21.39		
							<b>Total</b>	<b>23.84</b>	391	9321.44
6	chapter 12 / 12.1.1	Plaster on new surface on walls in cement sand mortar 1:6 including racking of joint etc. complete fine finish : 12 mm thick								
		(A) Pillar		40	0.35		1.80	25.20		
		(B) Pillar		80	0.063		1.80	9.00		
		(C) Wall		2	93		1.80	334.80		
							<b>Total</b>	<b>369.00</b>	163	60147
7		Miscellaneous expenditure								6566.558
		<b>Grand Total</b>								
										<b>410000</b>
										<b>therefore cost of per running meter wall</b>
										<b>4100</b>

Note : 1. This model is prepared on the basis of PWD BSR of Jaipur circle 2022. This is simply a guideline which is prepared for calculation of model construction.

2. Work should be completed by preparing estimate as per site conditions.

3. Rates per unit are for complete item including all leads of material, water, curing & finishing of work including tools etc.

4. This model Cost estimate includes contractor profit as per norms

  
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**Material Consumption Statement for 6 Feet Bricks Wall**  
Unit : 100 Meter

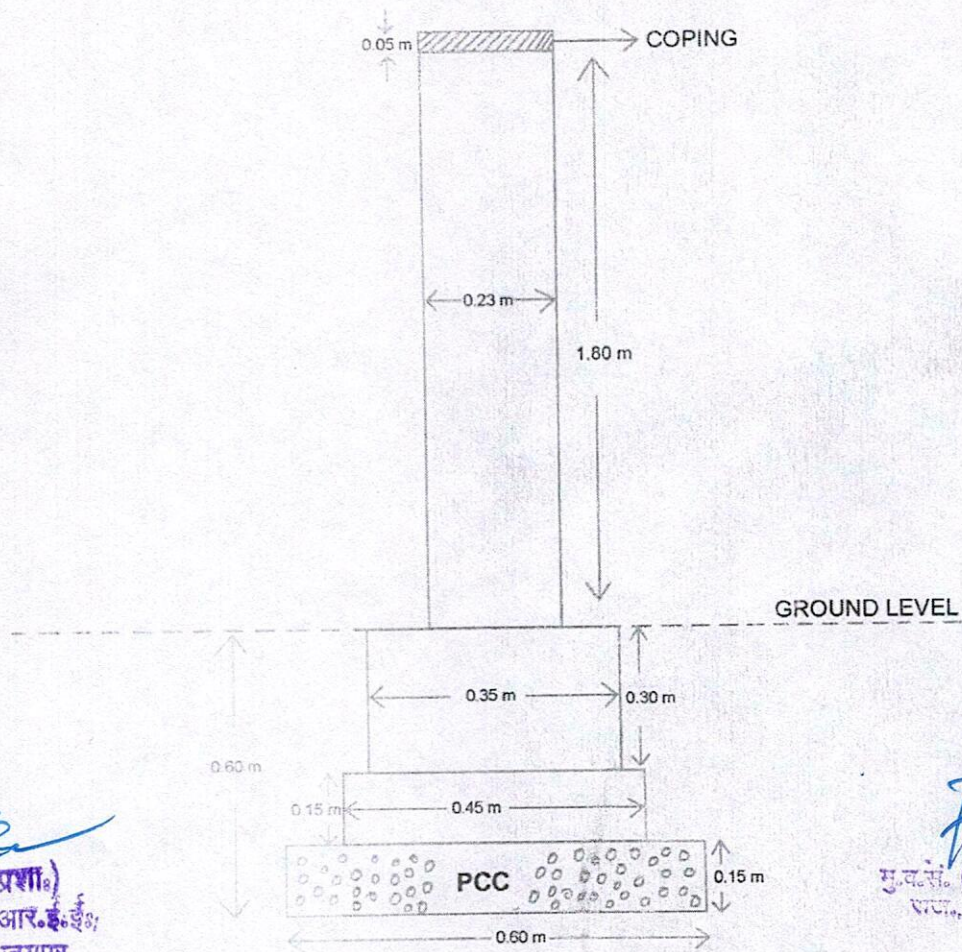
SN	Item	Unit	Quantity	Cement in Bags	Sand in Cum	Aggregate 40 mm in Cum	Aggregate 20 mm in Cum	Bricks in No.
1	Providing and lying in position cement concrete including curing compaction etc complete in specified grade excluding the cost of centering and shuttering. All works upto plinth level in 1:5:10 with aggregate 40 mm nominal size.	Cum	9.00	25	4.41	8.82	0	0
2	Brick masonry with F.P.S. bricks of class designation 75 in foundation and plinth with bricks	Cum	17.25	31	4.37	0	0	8159.25
3	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in : Cement mortar 1:4	Cum	42.91	77	10.88	0	0	20297
4	Providing and laying damp proof course or coping with cement concrete Grade M -15 (1:2:4) mortar prepared with 1% solution of water proof compound complete as per specification 50 mm thick.	Sqm	23.84	7.6	0.584	0	1.168	0
5	Plaster on new surface on walls in cement sand mortar 1:6 including racking of joint etc. complete fine finish : 12 mm thick	Sqm	369.00	25.83	5.424	0	0	0
			<b>Total</b>	<b>167</b>	<b>25.67</b>	<b>8.82</b>	<b>1.168</b>	<b>28457</b>

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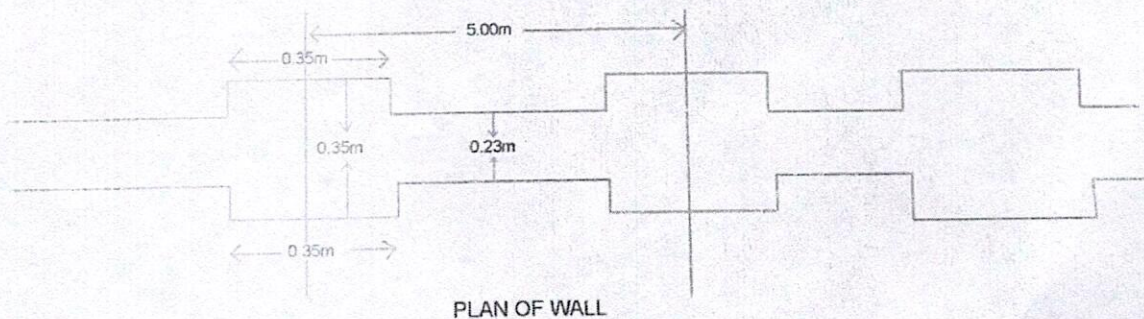
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# BRICK WALL OF HEIGHT- 6 FEET OR 1.80m



SECTION OF WALL



PLAN OF WALL




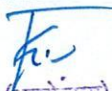
## वन क्षेत्रों एवं पौधशाला की सुरक्षा हेतु ईंटों की दिवार

वन विभाग में वर्तमान में वन क्षेत्रों, संरक्षित क्षेत्रों एवं पौधशाला की सुरक्षा हेतु 4 फीट एवं 6 फीट उचाई की पत्थर की दिवार बनाई जाती है। 4 फीट एवं 6 फीट उचाई की पत्थर की दिवार का मॉडल नॉर्म्स भी विभाग में अनुमोदित है। वनमण्डल श्रीगंगानगर, अनूपगढ़ हनुमानगढ़ छत्तरगढ़ तथा इंगानप स्टेज-11 बीकानेर में कोई पहाड़ी क्षेत्र नहीं होने के फलस्वरूप दिवार निर्माण हेतु आवश्यक पत्थरों की उपलब्धता नहीं है। पत्थरों का स्रोत भी इन वनमण्डलों से 200-300 किमी दूर है। राजस्थान के इस भू-भाग में पत्थरों की दिवार निर्माण का प्रचलन नहीं होने के कारण पत्थर दिवार निर्माण के कुशल कारीगर भी आसानी से उपलब्ध नहीं है। जबकि इन क्षेत्रों में ईंटों के भट्टे बहुतायत में मौजूद हैं।

अतः वनमण्डल श्रीगंगानगर, अनूपगढ़ हनुमानगढ़ छत्तरगढ़ तथा इंगानप स्टेज-11 बीकानेर में वन क्षेत्रों, संरक्षित क्षेत्रों एवं पौधशाला की सुरक्षा हेतु 4 फीट एवं 6 फीट उचाई की ईंटों की दिवार के मॉडल कोस्ट नॉर्म्स को वैकल्पिक तौर पर शामिल किया जाना उचित प्रतीत होता है।

4 फीट एवं 6 फीट उचाई की ईंटों की दिवार के मॉडल कोस्ट नॉर्म्स, आवश्यक सामग्री का आकलन तथा दिवार का सेक्शन एवं प्लान संलग्न प्रेषित हैं।

  
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**Model Cost Norms Grassland Development Desert Area (Without Planting)**

Labour rate Rs. 259/- per day

Unit- 50 Ha

Perimetre- 60 m/ha

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
<b>YEAR- 0 Advance Action</b>							
1	Survey of area, alignment of pits for pole fixing, division of area into segments, preparation of treatment map and plantaion card.	Prorata	1	439.01	391.93	47.08	439.01
2	Fencing						
	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	200.00	1200.00	4800.00	6000.00
	B. Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	Meter	30	280.83	8424.90	0.00	8424.90
3	Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	-	-	2000.00	1000.00	3000.00
4	In Situ Soil & Moisture Conservation measures like check dam, Nadis, Earthen Bunds etc	LS	-	-	800.00	600.00	1400.00
5	Digging up 100 rmt V-ditch with cross section size: 1.20x((0.30+0.0)/2) Sqmt. in area with Gentle slope	Meter	100	24.52	2452.00	-	2452.00
6	Raising of Grass slips and other indigenous plants in 10cmX15 cm bags (includes 20% extra)						
	Grass 1200 slips	Plant	1200	2.29	2748.00	0.00	2748.00
7	Sign board including painting and fixing	Prorata	1	110.21	0.00	110.21	110.21
8	Collection / Purchase of grass seeds of local indigenous species (6 Kg/Ha)	Prorata	6	107.00	0.00	642.00	642.00
9	Construction of Cattle guard hut	Prorata	1	607.39	418.00	189.39	607.39
10	R & M of Vehicle	Prorata	1	248.04	0.00	248.04	248.04
11	Labour amenities	Prorata	1	150.88	0.00	150.88	150.88
11	Purchase of tools, plants & insecticides	Prorata	1	147.66	0.00	147.66	147.66
12	Misc. and unforeseen expenditure	Prorata	1	197.91	136.00	61.91	197.91
<b>TOTAL YEAR 0</b>					<b>18571</b>	<b>7997</b>	<b>26568</b>


*ECC*


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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		1800.00	1200.00	3000.00
2	In Continuosion and Subsequent Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	-	-	2000.00	500.00	2500.00
3	Maintanence of Grass slips and other indigenous plants in 10cmX15 cm bags (includes 20% extra)	Prorata	1200	1.00	1000.00	200.00	1200.00
4	Transport of 1200 grass slips upto site including loading and unloading (upto 5	Prorata	1200	1.11	1332.00	0.00	1332.00
5	Digging of Furrows (by tractor) 200 rmt	RMT	200	1.00	0.00	200.00	200.00
6	Digging of Furrows (15x15cm) manual 200 RMT	RMT	200	1.95	390.00	0.00	390.00
7	Sowing of grass seeds in V-dicth, Furrows, Checkdams, Earthen Bunds, Etc.	Prorata	1	234.33	234.33	0.00	234.33
8	Sowing of grass seeds after making notches (20x20x15 cms)	Prorata	200	1.5	300.00	0.00	300.00
9	Planting-						
	Planting of 1000 grass slips including local transport and watering	Plant	1000	3.04	3040.00	0.00	3040.00
13	Collection / Purchase of grass seeds of local indigenous species (3 kg/Ha)	Prorata	3	107.00	0.00	642.00	642.00
9	Construction of approach roads/inspection path/Fire lines	Prorata	-	-	200.00	54.00	254.00
10	Running & Maintenance of Vehicles	Prorata	1	210.21	0.00	210.21	210.21
11	Labour amenities	Prorata	1	145.52	0.00	145.52	145.52
12	Watch & Ward for 12 months	Prorata	1	1618.41	1618.41	0.00	1618.41
13	Misc. and unforeseen expenditure	Prorata	1	247.62	247.62	118.00	365.62
	<b>Total YEAR 1</b>				<b>12162</b>	<b>3270</b>	<b>15432</b>

  
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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	-	-	2500.00	-	2500.00
2	Collection / Purchase of grass seeds of local indigenous species.	Prorata	-	-	100.00	100.00	200.00
3	Sowing of Grass and other speices seeds	Prorata	-	-	400.00		400.00
4	Expenditure on Maintenance including (Repair of fencing/Structures,Removal of weeds, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			472.20	128.29	600.50
5	Watch and Ward charges	Prorata			6464.04	0.00	6464.04
6	R&M of vehicles	Prorata			0.00	367.01	367.01
7	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			221.04	9.63	230.67
Total					10157	605	10762

Year-3 Maintenace-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			6464.04	0.00	6464.04
2	Miscellaneous expenditure (Labour, Removal of weeds, Instruments, Machine,repair of watercourse etc)	Prorata			322.26	57.78	380.04
Total					6786	58	6844


Year-4 - Maintenance-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			6464.04	0.00	6464.04
2	Miscellaneous expenditure (Labour, Removal of weeds, Instruments, Machine,repair of watercourse etc)	Prorata			153.48	95.23	248.71
Total					6618	95	6713

**Yearwise Cost Grassland Development Desert Area (Without Planting)**

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 -ADVANCE ACTION				18571	7997	26568
2	YEAR 1 - PLANTING YEAR				12162	3270	15432
3	YEAR 2 - MAINTENANCE I				10157	605	10762
4	YEAR 3 - MAINTENANCE II				6786	58	6844
5	YEAR - 4 MAINTENANCE III				6618	95	6713
Grand Total					54294	12025	66319

नोट :- 1.मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है बरन 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।

  
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Labour Rate : 259.00

Spacing :- Post to Post- 5M

Post Height :- 2.10 Mtr.

[illegible]

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# Model Cost Norms -Prestressed concrete post and barbed wire Fencing

Fencing Type :- Prestressed concrete  
Post with welded wire mesh and 4  
strand barbed wire .

Unit :- 1000 RMT

Concrete Post Height :- 2.10 Mtr.

Labour Rate :-Rs. 259 per day

Spacing :- Post to Post- 5M

1000

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Total Cost
1	Procurement of Barbed wire of 12 Gauge with barb(14Gauge) at spacing of 12.5 to 15 cm for 5 strand fencing. 1000x5=5000 rmt or 0.555 MT	Kg	555	100.00	55500.00
2	Procurement of Prestressed concrete Post of Size 2.10m.x(0.10+0.15)x1/2x0.10	No's	220.00	425.00	93500.00
3	Stacking ,local transportation along NH and any other misc. expenditure.	L.S.	220.00	25.00	5500.00
4	Digging of pit of size 30 cm x 30 cm x60 cm and fixing of Cement Post of size 2.10M x (0.10+0.15) x 1/2 x 0.10 cm in any type of soil.	No's	220.00	40.00	8800.00
5	Stretching of Barbed wire and fixing it with the angle iron post with GI Wire	Rmt	5000.00	2.50	12500.00
6	Interlacing the barbed wire with locally available bushy material	RMT	1000.00	17.64	17640.00
7	Misc. and unforeseen expenditure(Numbering of posts, purchase of GI wire etc)	Prorata	LS		6560.00
<b>Total</b>					200000.00
<b>Per Running metre Cost</b>					200.00

Note:- (1) Distance between Post to Post will be maintained 5 Mtr and 2 supports will be provided at each 21th Post in inclined manner .  
(2) Four Hooks will be placed at equal distance from top to bottom of the post.



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# Model Cost Norms for Grassland Development Non- Desert Area (Without Planting)


Labour rate Rs. 259/- 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			474.15	50.29	524.44
2	Fencing						
	A.Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha.)	Meter	30	259.00	7770.00	0.00	7770.00
	B.Ditch fencing 1.20m deep,1.50m wide at top & 0.90m at bottom (on an average 15m/ha.)	Meter	15	280.83	4212.45	0.00	4212.45
	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	200.00	600.00	2400.00	3000.00
3	In Situ Soil & Moisture Conservatin measures like check dam, Nadis, Earthen Bunds etc	Prorata	-	0.00	2082.00	1000.00	3082.00
4	Digging of contour trenches (.45x.45m)	Meter	50	32.56	1628.00		1628.00
5	Removal of invasive species (Lantana camera, Prosopis juliflora etc.) (as per requirement)	Prorata	-	-	4000.00	2000.00	6000.00
6	Restoration of natural regeneration by Cultural/ Silvicultural operations	Prorata			95.00	0.00	95.00
7	Collection / Purchase of grass seeds of local indigenous species .	Prorata			600.00	400.00	1000.00
8	Purchase of tools, plants & insecticides	Prorata	1	147.66	0.00	147.66	147.66
9	Cattle Guard Hut	LS	-	-	295.39	0.00	295.39
10	Labour amenities	Prorata			100.00	0.00	100.00
11	Watch & Ward for 4 months	Prorata	1	539.93	539.93	0.00	539.93
12	Misc. and unforeseen expenses including running of vehicles	Prorata			249.54	0.00	249.54
Total 0 year					22646	5998	28644


  
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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	-	-	3500.00	1500.00	5000.00
2	Creation of permanent Water Point	Prorata	1		600.00	400.00	1000.00
3	Grass seed sowing by twice plough with tractor in natural layer ( in 5 ha)	Prorata		483.72	100.00	383.72	483.72
4	Digging of Furrows (by tractor) 200 rmt	RMT	200	1.00	0.00	200.00	200.00
5	Digging of Furrows (15x15cm) manual 200 RMT	RMT	200	1.95	390.00	0.00	390.00
6	Sowing of grass seeds in trenches, Furrows, Checkdams, Earthen Bunds, Etc.	Prorata			468.66	0.00	468.66
7	Sowing of grass seeds after making notches (20x20x15 cms)		100	2.00	200.00		200.00
8	Collection / Purchase of grass seeds of local indigenous species	Prorata			500.00	100.00	600.00
9	Watch and ward charges for 12 months	Prorata		-	1618.41	0.00	1618.41
10	Construction of approach roads/inspection path/Fire lines	Prorata	-	-	300.00	119.00	419.00
11	Construction of gate and fixing of sign boards	Prorata	-		439.89	69.55	509.44
12	Misc. and unforeseen expences including running of vehicles etc.	Prorata	-	-	250.78	216.14	466.92
<b>Total 1 year</b>					<b>8368</b>	<b>2988</b>	<b>11356</b>
<b>Year-2 Maintenance-I</b>							
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) in	Prorata	-	-	2500.00	500.00	3000.00
2	Collection / Purchase of grass seeds of local indigenous species	Prorata	-	-	200.00	100.00	300.00
3	Sowing of grass seeds after making notches (20x20x15 cms)	Prorata	50	2.00	100.00	0.00	100.00
4	Sowing of grass seeds in trenches, Furrows, Checkdams, Earthen Bunds, Etc	Prorata	-	-	400.00	0.00	400.00
	Maintenance of approach roads/inspection path/Fire lines	Prorata	-	-	200.00		200.00
9	R&M of vehicles	Prorata			0.00	367.01	367.01
10	Expenditure on Maintenance including (Repair of fencing/Structures, Removal of weeds, Subsidiary silvicultural operations, etc.)	Prorata			472.20	128.29	600.50
11	Watch and Ward charges	Prorata			6464.04	0.00	6464.04
12	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			226.04	104.42	330.46
<b>Total</b>					<b>8062</b>	<b>700</b>	<b>11762</b>

  
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Year-3 Maintenance-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
2	Watch and Ward charges	Prorata			6464.04	0.00	6464.04
3	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			322.26	57.78	380.04
Total					6786	58	6844


Year-4 - Maintenance-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			6464.04	0.00	6464.04
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			153.48	95.23	248.71
Total					6618	95	6713

**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				22646	5998	28644
2	YEAR 1 - PLANTING YEAR				8368	2988	11356
3	YEAR 2 - MAINTENANCE I				8062	700	11762
4	YEAR 3 - MAINTENANCE II				6786	58	6844
5	YEAR - 4 MAINTENANCE III				6618	95	6713
Grand Total					52480	9839	65319

नोट :- 1. 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. fencing मद में Ditch fencing, Stonewall fencing and barbed wire fencing दोनों का प्राक्कलन रखा गया है। संबंधित मुख्य वन संरक्षक कार्यस्थल की परिस्थिति एवं नियमानुसार स्वीकृति देकर आवश्यकतानुसार परिवर्तन कर सकते हैं।

  
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## Annexure-A

Labour Rate : 259.00

Spacing :- Post to Post- 5M

Spacing :- Post to Post- 5M

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**Model Cost Norms -Prestressed concrete post and barbed wire Fencing**


Fencing Type :- Prestressed concrete  
Post with welded wire mesh and 4  
strand barbed wire .  
Unit :- 1000 RMT  
Concrete Post Height :- 2.10 Mtr.


Labour Rate :-Rs. 259 per day

Spacing :- Post to Post- 5M

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Total Cost
1	Procurement of Barbed wire of 12 Gauge with barb(14Gauge) at spacing of 12.5 to 15 cm for 5 strand fencing. 1000x5=5000 rmt or 0.555 MT	Kg	555	100.00	55500.00
2	Procurement of Prestressed concrete Post of Size 2.10m.x(0.10+0.15)x1/2x0.10	No's	220.00	425.00	93500.00
3	Stacking ,local transportation along NH and any other misc. expenditure.	L.S.	220.00	25.00	5500.00
4	Digging of pit of size 30 cm x 30 cm x60 cm and fixing of Cement Post of size 2.10M x (0.10+0.15) x 1/2 x 0.10 cm in any type of soil.	No's	220.00	40.00	8800.00
5	Stretching of Barbed wire and fixing it with the angle iron post with GI Wire	Rmt	5000.00	2.50	12500.00
6	Interlacing the barbed wire with locally available bushy material	RMT	1000.00	17.64	17640.00
7	Misc. and unforeseen expenditure(Numbering of posts, purchase of GI wire etc)	Prorata	LS		6560.00
<b>Total</b>					200000.00
<b>Per Running metre Cost</b>					200.00

Note:- (1) Distance between Post to Post will be maintained 5 Mtr and 2 supports will be provided at each 21th Post in inclined manner .  
(2) Four Hooks will be placed at equal distance from top to bottom of the post.

  
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