

Full Title of the Project : Diversion of 0.8085 Ha. Forest land for Construction of 220 kv D/C Transmission Line from Existing 220/400 kv D/C sub station Dhanonda to 220 kv sub Station Deroli Ahir through various strip Forests under forest division and District Mahendergarh.

File No. : FP/HR/TRANS/140597/2021

Date of Proposal: 04-04-2021

CHECK LIST SERIAL NUMBER :- 18

"SCHEME FOR C.A. " (Model-1)

Name of the Forest/Reach to be diverted for Construction of 220 kv D/C Transmission Line from Existing 220/400 kv D/C sub station Dhanonda to 220 kv sub Station Deroli Ahir through various strip Forests under forest division and District Mahendergarh.

Forest Area = 0.8085 ha.

Detail of degraded forest land/non-forest land where C.A. is to be carried out.

Division: Mahendergarh District: Mahendergarh Range: Mahendergarh C.A. Site Name: PLPA area Madhogarh Sec. 4 & 5 to be afforested:-

- i) Whether the site selected for Compensatory Afforestation is a Land bank or Not: - **No, the site selected for compensatory afforestation is not a land bank.**
- ii) If the CA site is other than the land bank, reasons are given: - There is no land bank in District Mahendergarh. **Plantation will be done PLPA area.**
In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:-
- iii) Soil type Sandy Loam
- iv) Topography a. Hilly/Undulating/Plain:
b. Slope: - Steep/Medium/Gentle
- v) Whether the area is bearing any root stock of vegetation:- Acacia tortilis.

Plantation Model :-

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up is as under;

Detail of year wise break-up of requirements of funds is as under:-

The Estimated cost of plantation & Maint. of 1904 Plants for next ten year by revising the existing CA Scheme of 625.40 Rs. per plants from wage rate Rs. 382./- per day to Rs. 791.05/- per Plants in the year 2022-23 as under :-

S.No.	Year	Rate Per Plant
1	1 st Year Plantation	Rs. 399.27/- Per Plant
2	2 nd Year Plantation	Rs. 98.03/- Per Plant
3	3 rd Year Plantation	Rs. 60.88/- Per Plant
4	4 th Year Plantation	Rs. 24.87/- Per Plant
5	5 th Year Plantation	Rs. 26.82/- Per Plant
6	6 th Year Plantation	Rs. 29.82/- Per Plant
7	7 th Year Plantation	Rs. 32.69/- Per Plant
8	8 th Year Plantation	Rs. 35.90/- Per Plant
9	9 th Year Plantation	Rs. 39.40/- Per Plant
10	10 th Year Plantation	Rs. 43.29/- Per Plant
Total Cost		Rs. 791.05

Area to be Diverted : 0.8085 ha.

No. of Trees to be felled : 175 no.

No. of Plants to be damaged : 170 no.

Area to be planted under normal CA : **1.750 ha.** (Ten time of damages tree)

Plants to be Planted under normal CA : **1750** (@ 1000 plants per ha.)

Additional C.A. in lieu of plants to be damaged (Double the plants to be damaged)= **340 Plants**

Area to planted under Add. CA : **0.0340** ha. (@ 1000 plants per ha.)

Total No. of plants to be planted (CA+ add.Ca) : **2090**

Total Area to be planted (CA + Add. CA) : **2.090 ha.** (@ 1000 plants per ha.)

A	Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1 st Year cost of afforestation	1750	Rs. 399.27/- Per Plant	698723
	(2) 2 nd Year maintenance	1750	Rs. 98.03/- Per Plant	171553
	(3) 3 rd Year maintenance	1750	Rs. 60.88/- Per Plant	106540
	(4) 4 th Year maintenance	1750	Rs. 24.87/- Per Plant	43523
	(5) 5 th Year Maintenance	1750	Rs. 26.82/- Per Plant	46935
	(6) 6 th Year Maintenance	1750	Rs. 29.82/- Per Plant	52185
	(7) 7 th Year Maintenance	1750	Rs. 32.69/- Per Plant	57208
	(8) 8 th Year Maintenance	1750	Rs. 35.90/- Per Plant	62825
	(9) 9 th Year Maintenance	1750	Rs. 39.40/- Per Plant	69108
	(10) 10 th Year Maintenance	1750	Rs. 43.29/- Per Plant	75758
	(11) Barbed wire fencing charge	7 RKM	Rs. 200000/- Per RKM	1400000
	Total charges			2784358
	Supervisory/Overhead/Miscellaneous Charges		10% on the total CA charges	278436
	Sub Total (A) C.A. charges			3062794
B	Additional Compensatory Afforestation Charges	No. of Plants	Rate	Total Amount (Rs.)
	(1) 1 st Year cost of afforestation	340	Rs. 399.27/- Per Plant	135752
	(2) 2 nd Year maintenance	340	Rs. 98.03/- Per Plant	33330
	(3) 3 rd Year maintenance	340	Rs. 60.88/- Per Plant	20699
	(4) 4 th Year maintenance	340	Rs. 24.87/- Per Plant	8456
	(5) 5 th Year Maintenance	340	Rs. 26.82/- Per Plant	9119
	(6) 6 th Year Maintenance	340	Rs. 29.82/- Per Plant	10139
	(7) 7 th Year Maintenance	340	Rs. 32.69/- Per Plant	11115
	(8) 8 th Year Maintenance	340	Rs. 35.90/- Per Plant	12206
	(9) 9 th Year Maintenance	340	Rs. 39.40/- Per Plant	13427
	(10) 10 th Year Maintenance	340	Rs. 43.29/- Per Plant	14719
	(11) Barbed wire fencing charge	1.36rkm	Rs. 200000/- Per RKM	272000
	Sub Total (B) Total addl.C.A. charges			540962
C	Penal CA			0
D	Catchments Area Treatment			
	Soil and Moisture Conservation		30% of total CA	918838

	charges			
	Sub Total (D)			918838
E	Safety Zone			0
F	Additional Charges			0
	i) Chain link fencing			
	ii) Pipeline fitting for multiple water points		L.S.	500000
	iii) Survey & demarcation		L.S.	10000
	iv) Plantation Sine board		L.S.	3000
	Sub Total (F)			513000
G	Net Present Value of Forest Land to be diverted	0.8085	1228590 per ha.	993316
H	Felling charges	118.31	1200 per cum	141972
Grand Total (A+B+C+D+E+F+G+H) to be deposited in CAMPA Fund				6170882

2. Technical details :-

Technical details of Compensatory Afforestation Scheme are as follows :-

- General Details :- Plantation will be done with 3 strand barbed wire in Protected Forest areas
- Spacement :- **4 x 4 meter**
- Species :- **Azadirachta indica, Holoptelea integrifolia, Ficus benghalensis, Ficus religiosa, Zyzyphus mauritiana, Albizia lebbeck etc.**
- Plantation Method :- **Tall Plantation .**
- Soil and Moisture Conservation Works: - **Nil**
- Protection (Fencing, Watch man, People's Participation etc): - **Fencing**
- Proposed Monitoring Mechanism :- **(M & E)**
- Any other information: - **N.A.**

Divisional Forest Officer
Mahendragiri Forest Division

Note: - CF (T) should countersign this C.A. scheme if area to be afforested is more than 5 hectare.

प्रधान मुख्य वन संरक्षक हरियाणा, पंचकूला,
हरियाणा वन विभाग

वन भवन, सी-18, सेक्टर 6, पंचकूला, हरियाणा/फैक्स: 0172 2583158, 2583988 Email:cfplg@yahoo.com.

क्रमांक:

Budget/133

दिनांक: 30-4-2020

सेवा में

- 1 प्रधान मुख्य वन संरक्षक-कम-मुख्य कार्यकारी अधिकारी,
स्टेट कैम्पा (एथोरिटी) पंचकूला।
- 2 सर्व मुख्य वन संरक्षक, क्षेत्रीय, हरियाणा।
- 3 उप वन संरक्षक, इन्वार्ज वन संरक्षक प्रचार एवं प्रशिक्षण पंचकूला।

विषय वर्ष 2021-22 के दौरान पौधारोपण हेतु कॉस्ट नार्मज बारे ।

उपरोक्त विषय के सम्बन्ध में श्रम विभाग द्वारा दिनांक 01.07.2020 से निर्धारित न्यूनतम वेतन 363.77/-रु0 के आधार पर स्कीम वाईज कॉस्ट नार्मज तैयार किए गए हैं जिसमें EPF, ESI & Contractor profit भी शामिल किया गया है। इसके अतिरिक्त तैयार किए गए कॉस्ट नार्मज में raising of plants in nry. की कॉस्ट भी शामिल है। तैयार किए गए (State Schemes and NPV Schemes) से सम्बन्धित components wise cost norms की प्रतियां संलग्न भेजते हुए आपको निर्देश दिए जाते हैं कि इन कॉस्ट नार्मज के अनुसार ही विभिन्न स्कीमों में करवाये जाने वाले पौधारोपण पर खर्चा किया जाए तथा पौधारोपण की सुरक्षा सुनिश्चित की जाये।

EPF, ESI के लिये प्रस्तावित बजट/फंड को केवल EPF & ESI के लिए ही बुक किया जायेगा तथा किसी भी स्थिति में यह बजट/ राशि किसी अन्य खर्च के लिए प्रयोग में नहीं ली जा सकती है। इसका विशेष ध्यान रखें, अन्यथा Financial irregularity के लिए जिम्मेवारी निर्धारित की जायेगी।

किसानों के खेतों में करवाये जाने वाले पौधारोपण की स्कीम जैसे Development of agro-forestry on community/farm land में वर्ष 2021-22 के दौरान विभाग द्वारा पौधे लगाये जायेंगे। इसके अतिरिक्त यदि किसी स्कीम के कॉस्ट नार्मज में किसी प्रकार के संशोधन की आवश्यकता है तो उसका टिप्पणी सहित प्रस्ताव भेजा जाए।
आदेशों की दृढ़ता से पालना की जाये।

V. Hanwar-29.4.2021
प्रधान मुख्य वन संरक्षक(वन बल प्रमुख),
हरियाणा, पंचकूला।

पृ0 क्रमांक:- 134

दिनांक:- 30-4-2021

एक प्रति निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

- 1 अतिरिक्त प्रधान मुख्य वन संरक्षक, वानिकी, हरियाणा पंचकूला।
- 2 अतिरिक्त प्रधान मुख्य वन संरक्षक, विकास, हरियाणा पंचकूला।
- 3 सर्व व0म0अ0, क्षेत्रीय।
- 4 व0म0अ0, बीज संग्रह एवं अनुसंधान मण्डल, पिंजौर।

V. Hanwar-29.4.2021
प्रधान मुख्य वन संरक्षक(वन बल प्रमुख),
हरियाणा, पंचकूला

Cost Statement of Plantation of Native species by planting 500 Tall Plants per Ha. under State Schemes/ NPV during the year 2021-22 at wage rate of Rs. 363.77/- per day					
No. of Plants per Ha = 500, spacing - 5m x 4m					
Sr. No.	Item of Work	Unit	Qty.	Rate / Unit (Rs.)	Amount (Rs.)
1st year expenditure					
1	Jungle Clearance	Ha	0.5	5456.55	2728.28
2	Dag bailing and Alignment	RKM	2	254.64	509.28
3	Digging of pits 500x0.6x0.6x0.6m	m ³	108	154.60	16696.80
4	Loading and unloading of plants in Tractor/cart	Nos	600	2.74	1644.00
5	Carriage of plants	Nos	600	22.85	13710.00
6	Planting of plants including 10% replacement	Nos	550	14.56	8008.00
7	Application of fertilizer (one time DAP+One time urea)	Nos	1000	0.72	720.00
8	Irrigation Eight times including cost of water carriages	Nos	4000	5.47	21880.00
9	Purchase of water	L.S		0.00	3000.00
10	First Weeding and hoeing	Nos	500	7.26	3630.00
11	Subsequent weeding and hoeing two times	Nos	1000	5.47	5470.00
12	Miscellaneous expenditure (urea, DAP, Tools)	L.S			900.00
13	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha)	L.S			6547.00
	Total				85443.36
14	Raising of plants in Nry (30x45cm) :500+20% extra	Nos	600	92.49	55494.00
	G.Total				140937.36
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				11451.16
	Added Contractor profit @ 7% of total				9865.61
	Net Total				162254.13
2nd year maintenance					
1	Clearing of weeds/ bushes in strips between plantation row.	Ha	0.5	1713.42	856.71
2	Re-opening of pits 100x0.6mx0.6mx0.6m	m ³	22	72.76	1600.72
3	Loading and unloading of plants	Nos	110	2.74	301.40
4	Carriage of plants	Nos	110	22.85	2513.50
5	Planting of plants	Nos	100	14.56	1456.00
6	Irrigation three times	Nos	1500	5.47	8205.00
7	Purchase of water	L.S		0.00	1800.00
8	Weeding and hoeing two times	Nos	1000	5.47	5470.00
9	Miscellaneous expenditure	L.S			300.00
10	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 ha)	L.S			6547.00
	Total				29050.33
11	Raising of plants in nursery	Nos	120	92.49	11098.80
	G.Total				40149.13
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				3262.12
	Added Contractor profit @ 7% of total				2810.44
	Net Total				46221.69
3rd year maintenance					
1	Clearing of weeds/ bushes in strips between plantation row.	Ha.	0.5	1713.42	856.71
2	Re-opening of pits 100x0.6mx0.6mx0.6m	m ³	11	72.76	800.36
3	Loading and unloading of plants	Nos	55	2.74	150.70
4	Carriage of plants	Nos	55	22.84	1256.20
5	Planting of plants	Nos	50	14.56	728.00
6	Irrigation two times	Nos	1000	5.47	5470.00
7	Weeding and hoeing once	Nos	500	5.47	2735.00
8	Miscellaneous expenditure	L.S			400.00
9	Purchase of water	L.S			900.00
10	Cost of wages of protection watcher (one protection watcher for three months for plantation area of 10 ha)	L.S			3273.00
	Total				16569.97
11	Raising of plants in nursery	Nos	110	92.49	10173.90
	G.Total				26743.87
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				2166.25
	Added Contractor profit @ 7% of total				1872.07
	Net Total				30782.19

4th year maintenance				
1	Clearing of weeds/ bushes in strips between plantation row.	Ha.	0.5	1713.42
2	Miscellaneous expenditure on pruning, cleaning and thinning			LS
	Total			4856.71
	Added EPF @ 13%			
	Added ESI @ 3.25%			
	of wages component 50% of total			394.61
	Added Contractor profit @ 7% of total			339.97
	Net Total			5591.29
5th year maintenance				
1	Clearing of weeds/ bushes in strips between plantation row.	Ha.	0.5	1713.42
2	Miscellaneous expenditure on pruning, cleaning and thinning			LS
	Total			4856.71
	Added EPF @ 13%			
	Added ESI @ 3.25%			
	of wages component 50% of total			394.61
	Added Contractor profit @ 7% of total			339.97
	Net Total			5591.29
6th year maintenance				
1	Clearing of weeds/ bushes in strips between plantation row.	Ha.	0.5	1713.42
2	Miscellaneous expenditure on pruning, cleaning and thinning			LS
	Total			4856.71
	Added EPF @ 13%			
	Added ESI @ 3.25%			
	of wages component 50% of total			394.61
	Added Contractor profit @ 7% of total			339.97
	Net Total			5591.29
ABSTRACT OF COST NORMS				
YEAR OF PLANTATION		Cost (Rs.)		Cost per plant (Rs.)
FIRST YEAR EXPENDITURE		162254.13		324.51
SECOND YEAR EXPENDITURE		46221.69		92.44
THIRD YEAR MAINTENANCE		30782.19		61.56
FOURTH YEAR MAINTENANCE		5591.29		11.18
FIFTH YEAR MAINTENANCE		5591.29		11.18
SIXTH YEAR MAINTENANCE		5591.29		11.18
TOTAL		256031.87		512.06

Note:- Maintenance of plantation for a period of 3 years under State Scheme and up to 5 years under NPV

Valanwar- 29.4.2021
Principal Chief Conservator of Forests,
Haryana, Panchkula.

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Annexure - 1

Detail of specific proposal @ 382 for the Year 2021-22

No. of Plants per Ha. = 1000 spacing of 4m x 2½M plant to plant		@W.RATE		382	
S.N	Item of Work	Unit	Qty.	Rate/Unit (Rs.)	Amount (Rs.)
1st Year expenditure					
1	Jungle clearance	Ha.	0.5	5730.00	2865.00
2	Dag bailing and alignment	RKM	4	267.40	1069.62
3	Digging of pits 1000x0.6mx0.6mx0.6m	M ³	216	162.35	35067.84
4	Reopening of pits same year 100x0.6mx0.6mx0.6m	M ³	22	25.79	567.32
5	Raising of plants in nursery (30cm x 45cm) 1000+20%extra	Nos	1200	97.13	116554.68
6	Loading and unloading of plants in tractor/cart	Nos	1200	2.87	3447.11
7	Carriage of plants	Nos	1200	23.99	28791.98
8	Planting of seedling & including 10% replacement	Nos	1100	15.29	16816.23
9	Application of fertilizer (one time DAP+One time Urea)	Nos	2000	0.76	1518.84
10	Irrigation eight times including cost of water	Nos	8000	11.46	91658.87
11	First weeding and hoeing	Nos	1000	7.63	7627.23
12	Subsequent weeding and hoeing five times	Nos	5000	5.75	28725.94
13	Miscellaneous Expenditure for purchase of fertilizer, pesticides, foliage Nutrients, Baskets & Tins etc.	L.S.			5230
14	Cost of wages of protection watcher (one protection watcher for six months for plantation area 10 Ha.	L.S.			6876
	Total				346816.67
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				28179
	Added Contractor profit @ 7% of total				24277
	Net Total				399272.67

2nd Year Maintenance		@W.RATE		420	
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1797.44	898.72
2	Raising of Plants in Nursery	Nos	240	97.03	23286.91
3	Reopening of pits (200x0.6mx0.6mx0.6m)	M ³	44	76.33	3358.33
4	Loading and unloading of Plants	Nos	240	2.87	688.71
5	Carriage of Plants	Nos	240	23.97	5752.46
6	Planting of plants	Nos	200	15.27	3054.35
7	Irrigation two times including cost of water	Nos	2000	11.45	22891.10
8	Weeding and hoeing three times	Nos	3000	5.74	17217.80
9	Miscellaneous Expenditure	L.S.			8000.00
	Total				85148.38
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				6918
	Added Contractor profit @ 7% of total				5960
	Net Total				98026.38

3rd Year Maintenance			@W.RATE		462
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1798.29	899.15
2	Raising of Plants in Nursery	Nos	110	97.08	10678.25
3	Reopening of pits (100x0.6mx0.6mx0.6m)	M ³	22	76.36	1679.96
4	Loading and unloading of plants	Nos	110	2.87	315.81
5	Carriage of Plants average distance of 18 K.M.	Nos	110	23.98	2637.80
6	Planting of plants	Nos	100	15.28	1527.90
7	Irrigation two times including cost of water	Nos	2000	11.45	22902.00
8	Weeding and hoeing once	Nos	1000	5.74	5742.00
9	Miscellance Expenditure	L.S.			6500.00
	Total				52882.87
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				4297
	Added Contractor profit @ 7% of total				3702
	Net Total				60881.87

4th Year Maintenance			@W.RATE		508
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1797.58	898.79
2	Expenditure on cleaning, pruning and thinning	L.S.			14500.00
3	Miscellance Expenditure	L.S.			6200.00
	Total				21598.79
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				1755
	Added Contractor profit @ 7% of total				1512
	Net Total				24865.79

5th Year Maintenance			@W.RATE		559
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1798.93	899.47
2	Expenditure on cleaning, pruning and thinning	L.S.			15900.00
3	Miscellance Expenditure	L.S.			6500.00
	Total				23299.47
	Added EPF @ 13%				0.00
	Added ESI @ 3.25%				0.00
	of wages component 50% of total				1893
	Added Contractor profit @ 7% of total				1631
	Net Total				26823.47

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6th Year Maintenance		@W.RATE		615
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1798.58
2	Expenditure on cleaning, pruning and thinning	L.S.		17500.00
3	Miscellance Expenditure	L.S.		7500.00
	Total			25899.29
	Added EPF @ 13%			0.00
	Added ESI @ 3.25%			0.00
	of wages component 50% of total			2104
	Added Contractor profit @ 7% of total			1813
	Net Total			29816.29

7th Year Maintenance		@W.RATE		677
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1799.62
2	Expenditure on cleaning, pruning and thinning	L.S.		19300.00
3	Miscellance Expenditure	L.S.		8200.00
	Total			28399.81
	Added EPF @ 13%			0.00
	Added ESI @ 3.25%			0.00
	of wages component 50% of total			2307
	Added Contractor profit @ 7% of total			1988
	Net Total			32694.81

8th Year Maintenance		@W.RATE		745
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1799.02
2	Expenditure on cleaning, pruning and thinning	L.S.		21230.00
3	Miscellance Expenditure	L.S.		9050.00
	Total			31179.51
	Added EPF @ 13%			0.00
	Added ESI @ 3.25%			0.00
	of wages component 50% of total			2533
	Added Contractor profit @ 7% of total			2183
	Net Total			35895.51

9th Year Maintenance		@W.RATE		820
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1799.39
2	Expenditure on cleaning, pruning and thinning	L.S.		23400.00
3	Miscellance Expenditure	L.S.		10000.00
	Total			34299.69
	Added EPF @ 13%			0.00
	Added ESI @ 3.25%			0.00
	of wages component 50% of total			2787
	Added Contractor profit @ 7% of total			2401
	Net Total			39487.69

10th Year Maintenance		@W.RATE		902
1	Clearing of weeds/bushes in strips between plantation row	Ha.	0.5	1798.29
2	Expenditure on cleaning, pruning and thinning	L.S.		25700.00
3	Miscellaneous Expenditure	L.S.		11000.00
	Total			37599.15
	Added EPF @ 13%			0.00
	Added ESI @ 3.25%			0.00
	of wages component 50% of total			3055
	Added Contractor profit @ 7% of total			2632
	Net Total			43286.15

ABSTRACT OF COST NORMS		Cost (Rs.)	Cost per plant (Rs.)
1	FIRST YEAR PLANTATION	399272.67	399.27
2	SECOND YEAR PLANTATION	98026.38	98.03
3	THIRD YEAR PLANTATION	60881.87	60.88
4	FOURTH YEAR PLANTATION	24865.79	24.87
5	FIFTH YEAR PLANTATION	26823.47	26.82
6	SIXTH YEAR PLANTATION	29816.29	29.82
7	SEVENTH YEAR PLANTATION	32694.81	32.69
8	EIGHTH YEAR PLANTATION	35895.51	35.90
9	NINETH YEAR PLANTATION	39487.69	39.49
10	TENTH YEAR PLANTATION	43286.15	43.29
	TOTAL		791.05

Divisional Forest Officer
Mahendergarh

17.5.21