

# कार्यालय उप वन संरक्षक, बारां

E-mail-dcf.brn.forest@rajasthan.gov.in , Tel.No.. 07453&230244

क्रमांक0 एफ ( )/एफ.सी.ए./ उ.व.स./2022-23/ 9367

दिनांक 16/8/23

निमित्त:-

संभागीय मुख्य वन संरक्षक,  
कोटा।

विषय:- Diversion of Forest land for the development of Shahpur (1800MW) Pumped Storage Project by M/S Greenko Energies Private Limited in Baran Territorial Forest Division. Proposal no - FP/RJ/HYD/121439/2021.

संदर्भ:- आपका पत्र क्रमांक 4310 दिनांक 10.08.2023 के कम में।

महोदय,

उपरोक्त विषयान्तर्गत संदर्भित पत्र के कम में चाही गई बिन्दुवार पालना रिपोर्ट निम्नानुसार प्रेषित है।

SN	EDS ON DATE 10.08.2023	REPLY
1	बिन्दु संख्या-5 में समतुल्य वन भूमि पर विशिष्ट वन तैयार करने हेतु आपके द्वारा आर.डी.एफ II के तहत वृक्षारोपण लिया गया है। जबकि साइट स्फेसिफिक के अनुसार प्राक्लन तैयार किया जाना अपेक्षित था। चूकिं समतुल्य 408 है0 दो टुकडो में ली गयी है। इसलिये दोनो हेतु पृथक - पृथक साइट स्फेसिफिक योजना तैयार कर प्रस्तुत करें।	साइट स्फेसिफिक के अनुसार प्राक्लन तैयार कर संलग्न प्रेषित है।
2	बिन्दु संख्या-11 में कन्जर्वेशन प्लान वन्यजीव संरक्षण अधिनियम 1972 की अनुसूची 1 से 5 वन्यजीवो हेतु प्रस्तुत किया गया है। जिसमें किंग वल्लर सम्मिलित नही किया गया है। जबकि आप द्वारा पार्ट -2 में किंग वल्लर-की उपस्थिती दर्शायी गई है। पुनः चैक कर प्रत्यावर्तन हेतु प्रस्तावित वन भूमि में रिपोर्टेड अनुसूची -1 के सभी वन्यजीवो को सम्मिलित करते हुए संशोधित कन्जर्वेशन प्लान तैयार कर प्रस्तुत करावे।	यूजर एजेन्सी के पत्र क्रमांक 230811 दिनांक 11.08.2023 द्वारा संशोधित कन्जर्वेशन प्लान तैयार कर संलग्न प्रेषित है।
3	बिन्दु संख्या - 13 में कूनो नदी की सहायक नदी व नालों का कैट प्लान प्रस्तुत किया जाना था जिसके स्थान पर प्रत्यावर्तन हेतु प्रस्तावित वन भूमि का कैट प्लान तैयार कर प्रस्तुत किया गया है। अतः कूनो नदी के कैचमेन्ट क्षेत्र को जी. टी शीट पर मार्क कर उपधार योग्य क्षेत्रफल को अंकित कर तछानुसार संशोधित कैट प्लान तैयार कर प्रस्तुत करें।	यूजर एजेन्सी के पत्र क्रमांक 230811 दिनांक 11.08.2023 द्वारा संशोधित कैट प्लान तैयार कर संलग्न प्रेषित है।

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दिनांक

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

1. अति:प्रधान मुख्य वन संरक्षक, प्रोटेक्शन एवं नोडल अधिकारी (एफ.सी.ए) राजस्थान जयपुर।
2. Greenko Energies Private Limited.

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**SITE INSPECTION REPORT NOT BELOW THE RANK OF DCF**  
(For the Forest land to be diverted under FCA)  
CHECK LIST SERIAL NUMBER: 16

**Proposal no.FP/RJ/HYD /121439/2021**

Full Title of the Project:- Construction of Shahpur (1800 MW) Pumped Storage Project by M/S Greenko Energies Private Limited. (407.8227 Ha.)

A proposal has been received by this office from Deputy general manager Greenko Energies private limited (under FCA- 1980) 407.8227 Ha. of forest land for non forestry purpose. The forest land Proposed for diversion is Protected Forest and it is a Part of notified SHAHBAD Conservation Reserve .

The subject envisages the use of forest land for From Construction of Shahpur (1800 MW) Pompe Storage Project by M/S Greenko Energies Private Limited.

The site inspection of the land involved in the proposal has been done by me on Dated 06.04.2023 On inspection of the site, it is found that the land required by the user agency is a forest measuring 407.8227 Ha.

The requirement of forest land as proposed by the user agency in Col. 2of part-I is unavoidable and is barest minimum required for the project. Whether any rare/ endangered/ unique species of flora and fauna found in the area. If so, the details thereof.

Yes, the king vulture is found in the area.

Whether any protected archaeological/ heritage site/ defense establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required. No.

(a) The user agency has not violated the provisions of Forest (Conservation) Act, 1980 and no work has been started without proper sanction. Yes.

OR

(b) It has been found that the user agency has violated the Forest (Conservation) Act, 1980 provisions.

(C) A detailed report as per para 1.9 of Chapter 1, Part C of Hand book of Forest (Conservation) Act, 1980 is attached). NA

**Additional Condition :-** Forest will divide in two part after construction of this project. Hence User agency will bear the cost of 8 feet height channel facing work and for connecting the both part of forest 1 -2 under pass work so that wild life can move easily. Apart from above for maintaining the biodiversity of Baran Division user agency will deposit the cost of mixed plantation near the project in equal land ( 408 ha . Mixed plantation scheme attached) .

Place: Baran

Date:- 16.8.23

(Signature)

Name :- Deepak Kumar Gupta  
Designation :- DCF Baran  
Official (दीपक कुमार गुप्ता)  
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## कार्यालय उप वन संरक्षक, बारां

Full Title of the Project:- Construction of Shahpur (1800 MW) Pumped Project by M/S Greenko Energies Private Limited. (407.8227 Ha.)

Proposal NO FP/RJ/HYD/121439/  
Mixed Plantation Scheme for 290 ha

Sr. No.	Details of Work	Amount
1	0year	20852578
2	1year	11654038
3	2Year	6125414
4	3Year	1496181
5	4year	1497732
6	5year	493868
7	6year	493868
8	7year	493868
9	8year	493868
10	9year	493868
11	10year	493868
	<b>Total</b>	<b>44589151</b>

उप वन संरक्षक  
बारां  
(दीपक कुमार गुप्ता)  
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**OFFICE OF THE DEPUTY CNSERVATOR OF FORESTS, BARAN**

Technical Estimate Afforestation Work

1) Scheme -Campa (Diversion of 407.8227 ha.Construction of Shahpur (1800MW) Pumped

(2) Name of Project -Plantation Bichi 2

(3) Estimated cost - Rs. 44589151/-

(4) Name of Site :- Bichi Village :- Bichi

(5) GPS Coordinate :- N 25.1307412 E 77.1453332

Forest Block  
VFPMC  
Model  
Naka  
AREA 290

Bichi  
Bichi  
Mixed Plantaion  
Bichi  
Ha


S.No.	BSR Page/item	Detail of Activities	Qty	Unit	Rate in Rs/Unit			Amount in Rs		
					Labour	Material	Total	Labour	Material	Total
<b>Advance Work</b>										
1	Model cost	Collection of data for microplaning,Preparation of microplan and management plan	290	ha	588.00	50.29	638.29	170520	14584.1	185104.10
2	Model cost	Survey of the area, layout of countour trenches, furrows, pits and marking of segments plots	290	ha	461.33	50.29	511.62	133785.7	14584.1	148369.80
3	<b>Fencing</b>									
A	Model cost	Stone wall fencing Random rubble loose stone fencing 1.2 m high 0.8 m at base & 0.60 m at top	10266	Rmt	369.51	0	369.51	3793389.66	0	3793389.66
B	Model cost	Providing and laying damp-proof course with cement concrete grade M-150(1:2:4)mortar prepared with 1% solution of water proof compound including two coats of hot blown bitumnet (2kg per sqm)complete as per specification with glass strip 3 mm thick at a distance of 1 mt interval 50mm thick(10266 m length&0.60 wide)	6159.6	Sqm	204.00	0.00	204.00	1256558.40	0.00	1256558.40
C	Model cost	Construction of boundary wall L. 2500 mtr And H.1.20 mtr	2500	Rmt	2850	0.00	2850.00	7125000.00	0.00	7125000.00
4	Model cost	Raising 165 Plants /ha 12.5 cm x 30 cm bags for planting	47850		6.27818	2.74	9.02	300411.00	130978.50	431389.50
		Raising of 69600 plants in 10 cm x 15 cm bags for planting of mounds of trenches and V ditches (includes 20% extra)	69600	plants	2.25	0.00	2.25	156600.00	0.00	156600.00
5	Model cost	Digging up 116000 rmt staggered countour Trenches with cross section size .45x.45Sqmt in hard soil between 10 to 30% boulders	23490	cmt	170.29	0	170.29	4000112.10	0.00	4000112.10
6	Model cost	Digging of pits (size 0.45 m x0.45 mx0.45m or (0.50+0.40)/2X (0.50+0.40) /2x0.45 cubic meter)	58000	Per pit	19.72	0	19.72	1143760.00	0.00	1143760.00
7	Model cost	Cost of collection and purchases of grass and other seeds	290.00	ha	0.00	428.00	428.00	0.00	124120.00	124120.00

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8	Model cost	Restoration of natural regeneration by culturaleal operations and making crescent shaped mounds on the lower side of seedlings	290.00	ha	1260.00	0.00	1260.00	365400.00	0.00	365400.00
9	Model cost	In situ soil & Moisture conservation measures like check dam,Nadis,Earthen Bunds etc.	290.00	ha	4830.67	0.00	4830.67	1400894.30	0.00	1400894.30
10	Model cost	Construction of thatched cattle guard hut.2 in nos	290.00	ha	225.50	33.20	258.70	130790.00	19256.00	150046.00
11	Model cost	Purchase or Construction of Water Storage Tank	290.00	ha	0.00	60.99	122.00	0.00	17687.10	17687.10
12	Model cost	Purchase of tools and plants.	290.00	ha	0.00	90.95	90.95	0.00	26375.50	26375.50
13	Model cost	Labour Amenities	290.00	ha	92.00	70.62	162.62	26680.00	20479.80	47159.80
14	Model cost	Watch and ward for 4 watcher for 4 months	416	Mdays	259.00	0	259	107744	0	107744.00
15	Model cost	Misc. unforeseen expenses including running of vehiclesand collection of seeds	290		1238.67	47.08	1285.75	359214.3	13653.2	372867.50
TOTAL YEAR 0										20852577.76
Say TOTAL										20852578
<b>Year I ( Planting year) 2024-25</b>										
1	As per market rates	Purchase of 55 plants From department or private nersery (including transportation,loading & unloading)	15950	Per Plant	0	80	80	0	1276000	1276000.00
2	As per Model	Maintenance 165 seedlings in 12.5cmX30cm bags	47850		1.71327	0.46	2.17	81980.10	21945.75	103925.85
		Maintenance of 240 plants in 10 cm X 15 cm bags	69600	Per Plant	0.98	0.36	1.34	68208	25056	93264.00
3	As per Model	In situ soil & Moisture conservation measures like check dam,Nadis,Earthen Bunds etc.	290	ha	2856	201.16	3057.16	828240	58336.4	886576.40
4	As per Model	Digging of 30x30cm cross section trench along inner side of stone wall fancing and seed sowing	8700	Meter	21.02	0.00	21.02	182874.00	0.00	182874.00
5	As per Model	Sowing/dibbling of seeds of grass,trees and shrubs including seeds of medicinal plants on the mound of trench/ditch fencig	232000	Meter	0.65	0.00	0.65	150800.00	0.00	150800.00
6	As per Model	Sowing of grass seeds including raking in the interspace	290	ha	570.67	0.00	570.67	165494.30	0.00	165494.30
7		Transportation 220 plants raised and purchased in nursery upto site including loading and unloading (upto 15km)	63800	plants	0.00	2.51	2.51	0.00	160138.00	160138.00
8	As per Model	Planting of seeding including Refilling of pits.	58000	plants	4.55	0.00	4.55	263900.00	0.00	263900.00
9	As per Model	Transportation 240 plants raised in 10 cm X 15 cm bags upto site including loading and unloading (upto 5 km)	69600	plants	0.00	0.92	0.92	0.00	64032.00	64032.00
10	As per Model	Planting of pre germinated plants,including local transport and watering	58000	plants	2.81	0.00	2.81	162980.00	0.00	162980.00

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11	As per Model	Purchase and application of insecticide and fertilizer in plants	58000	plants	3.87	0.94	4.81	224460.00	54520.00	278980.00
12	As per Model	Making of crescent shaped mounds below planted sapling after planting and dibbling of 3 seeds of three tree species	58000	plants	4.00	0.00	4.00	232000.00	0.00	232000.00
13	As per BSR	Watering of plants by canal contractor tanker (minimum 15 liters of water and including cost of transportation) up to 07 km average load (06 times) 10 km 4.14*6 km 0.89*6 48 58000*6 = 232000	232000	plants	9.48	0.00	9.48	2199360.00	0.00	2199360.00
14	As per BSR	Weeding and hoeing of plants 3 time repairing plants mounds	174000	plants	5.31	0.00	5.31	1847880.00	0.00	1847880.00
15	As per BSR	Hoeing of plants after each watering	232000	plants	2.38	0.00	2.38	1104320.00	0.00	1104320.00
16	As per Model	Weeding on common trench V ditches and improvement sampling	232000	None	5.31	0.00	5.31	1231920.00	0.00	1231920.00
17	As per Model	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	290	ha	1260.00	0.00	1260.00	365400.00	0.00	365400.00
18	As per Model	Labour for etc.	290	ha	365.33	40.66	405.99	105945.70	11791.40	117737.10
19	As per Model	Construction of approach road/inspection path	290	ha	428.00	0.00	428.00	124120.00	0.00	124120.00
20	As per Model	Watch and ward charges for 4 watch for 12 months	1248	Months	259.00	0.00	259.00	323232.00	0.00	323232.00
21	As per Model	Construction of gate and fixing of sign boards	290	ha	570.67	69.55	640.22	165494.30	20169.50	185663.80
22	As per Model	Misc. and unforeseen expense including fencing repairing, pruning, forest protection measures and running of software etc.	290	ha	244.00	216.14	460.14	70760.00	62640.60	133400.60
		TOTAL YEAR I						9899368	1754670	11654038.05
		Any Total								11654038
<b>Year II ( Maintenance year) 2025-26</b>										
1	As per market rates	Purchase of Plants for casualty replacement in year 2 (20%)	11600	Per Plant	0	80	80	0	928000	928000.00
2	As per Model	Repair of stone wall fencing	2055.20	mt	145.00	0.00	145.00	297715.64	0.00	297715.64
3	As per Model	Casualty replacement of (20%) including including of pnc transportation planting watering and application of insecticide	11600	per plant	13.08	0.00	13.08	151728.00	0.00	151728.00
4	As per BSR	Watering of plants by canal contractor tanker (minimum 15 liters of water and including cost of transportation) up to 07 km average load 03 times for km 8.14*6 km 0.89*6 48 174000	174000	plants	9.48	0.00	9.48	1649520.00	0.00	1649520.00
5	As per BSR	Weeding and hoeing of plants 3 time repairing plants mounds	174000	plants	5.31	0.00	5.31	1847880.00	0.00	1847880.00
6	As per BSR	Hoeing of plants after each watering	174000	plants	2.38	0.00	2.38	828240.00	0.00	828240.00

  
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1	Project Budget	Work and material charges for 1 month for 10 workers	1200	Rs	270.00	4.00	270.00	12270.00	4.00	12270.00
2	Project Budget	Other and miscellaneous expenses including transport or insurance, education, attendance, etc.	200	Rs	400.00	12.00	200.00	12000.00	2000.00	10000.00
							3940.00	6340.00		412740.44
										412740.44
<b>Year III : Maintenance year 2024-25</b>										
1	Project Budget	Work and material charges for 1 month for 10 workers	1200	Rs	270.00	4.00	270.00	12270.00	4.00	12270.00
2	Project Budget	Other and miscellaneous expenses including transport or insurance, education, attendance, etc.	200	Rs	400.00	12.00	200.00	12000.00	2000.00	10000.00
3	Project Budget	Training and leaving in short term and opening of short term	100000	Rs	4.00	4.00	4.00	44000.00	4.00	44000.00
4	Project Budget	Work and material charges for 1 month for 10 workers	1200	Rs	270.00	4.00	270.00	12270.00	4.00	12270.00
5	Project Budget	Other and miscellaneous expenses including transport or insurance, education, attendance, etc.	200	Rs	400.00	12.00	200.00	12000.00	2000.00	10000.00
							3940.00	6340.00		10760.00
										10760.00
<b>Year IV : Maintenance year 2025-26</b>										
1	Project Budget	Work and material charges for 1 month for 10 workers	1200	Rs	270.00	4.00	270.00	12270.00	4.00	12270.00
2	Project Budget	Other and miscellaneous expenses including transport or insurance, education, attendance, etc.	200	Rs	400.00	12.00	200.00	12000.00	2000.00	10000.00
3	Project Budget	Training and leaving in short term and opening of short term	100000	Rs	4.00	4.00	4.00	44000.00	4.00	44000.00
4	Project Budget	Work and material charges for 1 month for 10 workers	1200	Rs	270.00	4.00	270.00	12270.00	4.00	12270.00
5	Project Budget	Other and miscellaneous expenses including transport or insurance, education, attendance, etc.	200	Rs	400.00	12.00	200.00	12000.00	2000.00	10000.00
							3940.00	6340.00		10760.00
										10760.00
<b>Year V : Maintenance year 2026-27</b>										
1	Project Budget	Work and material charges for 1 month for 10 workers	1200	Rs	270.00	4.00	270.00	12270.00	4.00	12270.00
2	Project Budget	Other and miscellaneous expenses including transport or insurance, education, attendance, etc.	200	Rs	400.00	12.00	200.00	12000.00	2000.00	10000.00
							3940.00	6340.00		10760.00
										10760.00

  
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 धरणी

		Say Total								493868
<b>Year VI ( Maintenance year) 2029-30</b>										
1	As per Model	Watch and ward charges for 4 watcher for 12 months	1248	Mdays	259 00	0 00	259 00	323232 00	0 00	323232 00
2	As per Model	Misc and unforeseen expences including (Repair of structures,subsidiary silvicultural operations and frost protection etc )	290	ha	460 00	128 40	588 40	133400 00	37236 00	170636 00
		TOTAL YEAR 6						<b>456632</b>	<b>37236</b>	<b>493868.00</b>
		Say Total								493868
<b>Year VII ( Maintenance year) 2030-31</b>										
1	As per Model	Watch and ward charges for 4 watcher for 12 months	1248	Mdays	259 00	0 00	259 00	323232 00	0 00	323232 00
2	As per Model	Misc and unforeseen expences including (Repair of structures,subsidiary silvicultural operations and frost protection etc )	290	ha	460 00	128 40	588 40	133400 00	37236 00	170636 00
		TOTAL YEAR 7						<b>456632</b>	<b>37236</b>	<b>493868.00</b>
		Say Total								493868
<b>Year VIII ( Maintenance year) 2031-32</b>										
1	As per Model	Watch and ward charges for 4 watcher for 12 months	1248	Mdays	259 00	0 00	259 00	323232 00	0 00	323232 00
2	As per Model	Misc and unforeseen expences including (Repair of structures,subsidiary silvicultural operations and frost protection etc )	290	ha	460 00	128 40	588 40	133400 00	37236 00	170636 00
		TOTAL YEAR 8						<b>456632</b>	<b>37236</b>	<b>493868.00</b>
		Say Total								493868
<b>Year IX ( Maintenance year) 2032-33</b>										
1	As per Model	Watch and ward charges for 4 watcher for 12 months	1248	Mdays	259 00	0 00	259 00	323232 00	0 00	323232 00
2	As per Model	Misc and unforeseen expences including (Repair of structures,subsidiary silvicultural operations and frost protection etc )	290	ha	460 00	128 40	588 40	133400 00	37236 00	170636 00
		TOTAL YEAR 9						<b>456632</b>	<b>37236</b>	<b>493868.00</b>
		Say Total								493868
<b>Year X ( Maintenance year) 2033-34</b>										
1	As per Model	Watch and ward charges for 4 watcher for 12 months	1248	Mdays	259 00	0 00	259 00	323232 00	0 00	323232 00
2	As per Model	Misc and unforeseen expences including (Repair of structures,subsidiary silvicultural operations and frost protection etc )	290	ha	460 00	128 40	588 40	133400 00	37236 00	170636 00
		TOTAL YEAR 10						<b>456632</b>	<b>37236</b>	<b>493868.00</b>
		Say Total								493868
		<b>Grand Total</b>								<b>44589151</b>
		0 Year	20252578							
		1 year	11654038							
		2 year	6125414							

  
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3 year	1496181
4 year	1497732
5 year	493868
6 year	493868
7 year	493868
8 year	493868
9 year	493868
10 year	493868
Total	44589151

Technically checked



Asst. Conservator of Forest  
Baran

Sanctioned by

(दीपक कुमार गुप्ता)

Dy. Conservator of Forest  
Baran

कार्यालय उप वन संरक्षक, बारां

Full Title of the Project:- Construction of Shahpur (1800 MW) Pumped Project by M/S Greenko Energies Private Limited. (407.8227 Ha.)

Proposal NO FP/RJ/HYD/121439/  
Mixed Plantation Scheme for 118 ha

Sr. No.	Details of Work	Amount
1	0year	10123733
2	1year	4584720
3	2Year	2534243
4	3Year	639516
5	4year	639516
6	5year	231047
7	6year	231047
8	7year	231047
9	8year	231047
10	9year	231047
11	10year	231047
	<b>Total</b>	<b>19908010</b>

उप वन संरक्षक  
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बारां

**OFFICE OF THE DEPUTY CNSERVATOR OF FORESTS, BARAN**  
**Technical Estimate Afforestation Work**

Name - Campa (Diversion of 407.8227 ha. Construction of Shahpur (1800MW)  
 Feedstorage project by M/s Greenko Energies Private Limited)

Forest Block **Bichi**

(1) Name of Project - Plantation Bichi 2

(2) Estimated cost - Rs. 19908011/-

VFPMC

(4) Name of Site :- Bichi Village :- Bichi

Model

(5) GPS Cordinate :- N 25.1307412 E 77.1453332

Naka

AREA **118**

Bichi

Bichi

Mixed Plantaion

Bichi

Ha

S.N o.	BSR Page/Item	Detail of Activities	Qty	Unit	Rate in Rs/Unit			Amount in Rs		
					Labour	Material	Total	Labour	Material	Total
<b>Advance Work</b>										
1	Model cost	Collection of data for microplanning, Preparation of microplan and management plan	118	ha	588.00	50.29	638.29	69384	5934.22	75318.22
2	Model cost	Survey of the area, layout of countour trenches Furrows, pits and marking of segments plots	118	ha	461.33	50.29	511.62	54436.94	5934.22	60371.16
<b>3 Fencing</b>										
A	Model cost	Stone wall fencing Random rubble loose stone fencing 1.2 m high 0.8 m at base & 0.60 m at top	4582	Rmt	369.51	0	369.51	1693094.82	0	1693094.82
B	Model cost	Providing and laying damp-proof course with cement concrete grade M-150(1:2:4) mortar prepared with 1% solution of water proof compound including two coats of hot blown bitument (2kg per sqm) complete as per specification with glass strip 3 mm thick at a distance of 1 mt interval 50mm thick (4582 m length & 0.60 wide)	2749.2	Sqm	204.00	0.00	204.00	560836.80	0.00	560836.80
C	Model cost	Construction of Pucca boundary wall L. 1500 mtr And H 1.20 mtr	1500	Rmt	2850	0.00	2850.00	4275000.00	0.00	4275000.00
<b>Cost of raising of Plants</b>										
4	Model cost	Raising of 165 plants /ha in 12.5 cm x 30 cm bags for planting	19470		6.27818	2.74	9.02	122236.20	53294.70	175530.90
		Raising of 240 plants /ha in 10 cm x 15 cm bags for planting of mounds of trenches and V ditches	28320	plants	2.25	0.00	2.25	63720.00	0.00	63720.00
5	Model cost	Digging up 47200 rmt staggered countour Trenches with cross section size 45x45 Sqmt in hard soil between 10 to 30% boulders	9558	cmt	170.29	0	170.29	1627631.82	0.00	1627631.82
6	Model cost	Digging of pits (size 0.45 m x 0.45 m x 0.45 m or (0.50 x 0.40) 2X (0.50 x 0.40) / 2 x 0.45 cubic meter)	23600	Per pit	19.72	0	19.72	465392.00	0.00	465392.00

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	Model cost	Cost of collection and purchases of grass and other seeds	118 00	ha	0 00	428 00	428 00	0 00	50504 00	50504 00
	Model cost	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	118 00	ha	1260 00	0 00	1260 00	148680 00	0 00	148680 00
9	Model cost	In situ soil & Moisture conservation measures like check dam, Nadis, Earthen Bunds etc	118 00	ha	4830 67	0 00	4830 67	570019 06	0 00	570019 06
10	Model cost	Construction of thatched cattle guard hut 2 in nos	118 00	ha	225 50	33 20	258 70	53218 00	7835 20	61053 20
11	Model cost	Purchase or Construction of Water Storage Tank	118 00	ha	0 00	60 99	122 00	0 00	7196 82	7196 82
12	Model cost	Purchase of tools and plants	118 00	ha	0 00	90 95	90 95	0 00	10732 10	10732 10
13	Model cost	Labour Amenities	118 00	ha	92 00	70 62	162 62	10856 00	8333 16	19189 16
14	Model cost	Watch and ward for 4 watcher for 4 months	416	Mdays	259 00	0	259	107744	0	107744 00
15	Model cost	Misc unforeseen expenses including running of vehicles, collection of seeds etc	118 00		1238 67	47 08	1285 75	146163 06	5555 44	151718 50
		TOTAL YEAR 0								10123732.56
		Say TOTAL								10123733
<b>Year I ( Planting year)</b>										
1	As per market rates	Purchase of 55 plants from department or private nurseries (including transportation, loading & unloading)	6490	Per Plant	0	80	80	0	519200	519200 00
2	As per Model	Maintenance 165 seedlings in 12.5 x 30 cm bags	19470		1 71327	0 46	2 17	33357 42	8929 65	42287 07
		Maintenance of 240 plants in 10 cm X 15 cm bags	28320	Per Plant	0 98	0 36	1 34	27753 6	10195 2	37948 80
3	As per Model	In situ soil & Moisture conservation measures like check dam, Nadis, Earthen Bunds etc	118	ha	2856	201 16	3057 16	337008	23736 88	360744 88
4	As per Model	Digging of 30x30cm cross section trench along inner side of stone wall fencing and seed sowing	6550	Meter	21 02	0 00	21 02	137681 00	0 00	137681 00
5	As per Model	Sowing dibbling of seeds of grass, trees and shrubs including seeds of medicinal plants on the mound of trench ditch fencing	94400	Meter	0 65	0 00	0 65	61360 00	0 00	61360 00
6	As per Model	Sowing of grass seeds including raking in the interspace	118	ha	570 67	0 00	570 67	67339 06	0 00	67339 06
	As per Model	Transportation 220 plants raised and purchased from nursery to site including loading and unloading (upto 15km)	25960	plants	0 00	2 51	2 51	0 00	65159 60	65159 60
7	As per Model	Planting of seedling including Refilling of pits	23600	plants	4 55	0 00	4 55	107380 00	0 00	107380 00
8	As per Model	Transportation 240 plants raised in 10 cm X 15 cm bags upto site including loading and unloading (upto 5 km)	28320	plants	0 00	0 92	0 92	0 00	26054 40	26054 40

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	As per Model	Planting of pre-growned plants, including local transport and watering	23600	plants	2.81	0.00	2.81	66316.00	0.00	66316.00
	As per Model	Purchase and application of insecticide and fertilizer in plants	23600	plants	3.87	0.94	4.81	91332.00	22184.00	113516.00
11	As per Model	Making of concrete stepped mound below planted sapling after watering and dibbling of 3 seeds of trees tree species	23600	plants	4.00	0.00	4.00	94400.00	0.00	94400.00
12	As per BSR	Watering of plants by canal contractor tanker (minimum 17 liters of water and including cost of transportation) up to 17 km average load 4 tonnes 20000/- rupees	94400	plants	9.48	0.00	9.48	894912.00	0.00	894912.00
13	As Per BSR	Weeding and hoeing of plants 2 time repeating plants mound	70800	plants	5.31	0.00	5.31	751896.00	0.00	751896.00
14	As Per BSR	Flowing of plants after each watering	94400	plants	2.38	0.00	2.38	449344.00	0.00	449344.00
15	As per Model	Weeding on concrete mounds 3 -ditches and replacement sapling	47200	ha	5.31	0.00	5.31	250632.00	0.00	250632.00
16	As per Model	Revivification of nutrient representation by cultural operations and making concrete stepped mounds on the lower side of seedlings	118	ha	1260.00	0.00	1260.00	148680.00	0.00	148680.00
17	As per Model	Labour for etc	118	ha	365.33	40.66	405.99	43108.94	4797.88	47906.82
18	As per Model	Construction of approach road/inspection path	118	ha	428.00	0.00	428.00	50504.00	0.00	50504.00
19	As per Model	Watch and ward charges for 2 watchmen for 12 months	624	Mdays	259.00	0.00	259.00	161616.00	0.00	161616.00
20	As per Model	Construction of gate and fixing of sign boards	118	ha	170.67	69.55	640.22	67139.06	8206.90	75345.96
21	As per Model	Misc. and unforeseen expenses including additional watering, tracing and final production (manure and running of soffies etc.)	118	ha	244.00	216.14	460.14	28792.00	25304.52	54096.52
<b>TOTAL YEAR I</b>								<b>3870751</b>	<b>713969</b>	<b>4584720.11</b>
<b>Sup. Total</b>										<b>4584720</b>

**Year II ( Maintenance year) 2025-26**


1	As per market rates	Purchase of 700 plants for annual replacement in year 2 - 20 %	4720	Per Plant	0	80	80	0	377600	377600.00
2	As per Model	Repair of stone wall fencing	916.40	run	143.00	0.00	143.00	132878.73	0.00	132878.73
3	As per Model	Annual replacement of 20% including replugging of pre-transformation planting, watering and application of insecticide	4720	per plant	13.08	0.00	13.08	61737.60	0.00	61737.60
3.5.1		Watering of plants by canal contractor tanker (minimum 17 liters of water and including cost of transportation) up to 17 km average load 10 tonnes or less 4 14-16 km 0.89-1.42 rupees/ha - 232000	70800	plants	9.48	0.00	9.48	671184.00	0.00	671184.00
12	As per BSR	Weeding and hoeing of plants 2 time repeating plants mound	70800	plants	5.31	0.00	5.31	751896.00	0.00	751896.00

  
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As per HSR	Flushing of plants after each watering	70800	plants	2.38	0.00	2.38	337008.00	0.00	337008.00	
As per Model	Watch and ward charges for 2 watchmen for 12 months	624	Mdays	259.00	0.00	259.00	161616.00	0.00	161616.00	
As per Model	Misc. and unforeseen expenses including (Repair of structures, subsidiary, sub-cultural operations and forest protection etc.)	118	ha	218.67	123.05	341.72	25803.06	14519.90	40322.96	
TOTAL YEAR 2							<b>2142123</b>	<b>392120</b>	<b>2534243.29</b>	
Net Total									<b>2534243</b>	
<b>Year III ( Maintenance year) 2026-27</b>										
1	As per market rates	Purchase of Plants for casualty replacement in year 2 (10%)	2360	Per Plant	0	80	80	0	188800	188800.00
2	As per Model	Casualty replacement of (10%) including re-digging of pits, transportation, planting, watering and application of insecticide	2360	per plant	13.08	0.00	13.08	30868.80	0.00	30868.80
3	As per Model	Wooding and boxing in plants 2 time and repairing of plants round	47200	per plant	4.00	0.00	4.00	188800.00	0.00	188800.00
4	As per Model	Watch and ward charges for 2 watchmen for 12 months	624	Mdays	259.00	0.00	259.00	161616.00	0.00	161616.00
5	As per Model	Misc. and unforeseen expenses including (Repair of structures, subsidiary, sub-cultural operations and forest protection etc.)	118	ha	460.00	128.40	588.40	54280.00	15151.20	69431.20
TOTAL YEAR 3							<b>435565</b>	<b>203951</b>	<b>639516.00</b>	
Net Total									<b>639516</b>	
<b>Year IV ( Maintenance year) 2027-28</b>										
1	As per market rates	Purchase of Plants for casualty replacement in year 2 (10%)	2360	Per Plant	0	80	80	0	188800	188800.00
2	As per Model	Casualty replacement of (10%) including re-digging of pits, transportation, planting, watering and application of insecticide	2360	per plant	13.08	0.00	13.08	30868.80	0.00	30868.80
3	As per Model	Wooding and boxing in plants 2 time and repairing of plants round	47200	per plant	4.00	0.00	4.00	188800.00	0.00	188800.00
4	As per Model	Watch and ward charges for 2 watchmen for 12 months	624	Mdays	259.00	0.00	259.00	161616.00	0.00	161616.00
5	As per Model	Misc. and unforeseen expenses including (Repair of structures, subsidiary, sub-cultural operations and forest protection etc.)	118	ha	460.00	128.40	588.40	54280.00	15151.20	69431.20
TOTAL YEAR 4							<b>435565</b>	<b>203951</b>	<b>639516.00</b>	
Net Total									<b>639516</b>	
<b>Year V ( Maintenance year) 2028-29</b>										
1	As per Model	Watch and ward charges for 2 watchmen for 12 months	624	Mdays	259.00	0.00	259.00	161616.00	0.00	161616.00
2	As per Model	Misc. and unforeseen expenses including (Repair of structures, subsidiary, sub-cultural operations and forest protection etc.)	118	ha	460.00	128.40	588.40	54280.00	15151.20	69431.20

  
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		TOTAL YEAR 5						215896	15151	231047.20
		Say Total								231047
<b>Year VI ( Maintenance year) 2029-30</b>										
1	As per Model	Watch and ward charges for 2 watcher for 12 months	624	Mdays	259.00	0.00	259.00	161616.00	0.00	161616.00
2	As per Model	Misc and unforeseen expences including (Repair of structures,subsidiary silvicultural operations and frost protection etc )	118	ha	460.00	128.40	588.40	54280.00	15151.20	69431.20
		TOTAL YEAR 6						215896	15151	231047.20
		Say Total								231047
<b>Year VII ( Maintenance year) 2030-31</b>										
1	As per Model	Watch and ward charges for 2 watcher for 12 months	624	Mdays	259.00	0.00	259.00	161616.00	0.00	161616.00
2	As per Model	Misc and unforeseen expences including (Repair of structures,subsidiary silvicultural operations and frost protection etc )	118	ha	460.00	128.40	588.40	54280.00	15151.20	69431.20
		TOTAL YEAR 7						215896	15151	231047.20
		Say Total								231047
<b>Year VIII ( Maintenance year) 2031-32</b>										
1	As per Model	Watch and ward charges for 2 watcher for 12 months	624	Mdays	259.00	0.00	259.00	161616.00	0.00	161616.00
2	As per Model	Misc and unforeseen expences including (Repair of structures,subsidiary silvicultural operations and frost protection etc )	118	ha	460.00	128.40	588.40	54280.00	15151.20	69431.20
		TOTAL YEAR 8						215896	15151	231047.20
		Say Total								231047
<b>Year IX ( Maintenance year) 2032-33</b>										
1	As per Model	Watch and ward charges for 2 watcher for 12 months	624	Mdays	259.00	0.00	259.00	161616.00	0.00	161616.00
2	As per Model	Misc and unforeseen expences including (Repair of structures,subsidiary silvicultural operations and frost protection etc )	118	ha	460.00	128.40	588.40	54280.00	15151.20	69431.20
		TOTAL YEAR 9						215896	15151	231047.20
		Say Total								231047
<b>Year X ( Maintenance year) 2033-34</b>										
1	As per Model	Watch and ward charges for 2 watcher for 12 months	624	Mdays	259.00	0.00	259.00	161616.00	0.00	161616.00
2	As per Model	Misc and unforeseen expences including (Repair of structures,subsidiary silvicultural operations and frost protection etc )	118	ha	460.00	128.40	588.40	54280.00	15151.20	69431.20
		TOTAL YEAR 10						215896	15151	231047.20
		Say Total								231047
		<b>Grand Total</b>								19908011
		0 Year	10123733							
		1 year	4584720							

  
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2 year	2534243
3 year	639516
4 year	639516
5 year	231047
6 year	231047
7 year	231047
8 year	231047
9 year	231047
10 year	231047
<b>Total</b>	<b>19908011</b>

Technically checked

  
Asst. Conservator of Forest  
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(दीपक कुमार गुप्ता)  
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