

Full Title of the Project: Proposed diversion of 5.858 Ha. of Forest land for construction of 3rd Railway line between Titlagarh to Vizianagaram under East Coast Railway by RVNL

File No.: FP/0R/RAIL/35352/2018

Date of Proposal: 24/08/2018

CHECK LIST SERIAL NUMBER-18

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for Compensatory Afforestation to be carried out in lieu of 5.858 Ha. of forest area to be diverted for 3rd Railway line Project in between Lanjigarh – Rayagada in Rayagada District.

1. Details of degraded forest land / non-forest land :-

District: Rayagada Village: Padelpadar

Tehsil: Muniguda

Name of Forest Division: Rayagada Range: Muniguda

Block/Compartment/Survey No. BP-1 to BP-34

Area to be afforested: 4.906 Acre

Details of degraded forest land / non-forest land :-

District: Rayagada Village: Chitriguri Alies Majhihalama

Tehsil: Bissamcuttack

Name of Forest Division: Rayagada Range: Muniguda

Block/Compartment/Survey No. BP-35 to BP-81

Area to be afforested: 3.364 Acre

Details of degraded forest land / non-forest land :-

District: Rayagada Village: Brundabari

Tehsil: Bissamcuttack

Name of Forest Division: Rayagada Range: Muniguda

Block/Compartment/Survey No. BP-88 to BP-145

Area to be afforested: 3.621 Acre

Details of degraded forest land / non-forest land :-

District: Rayagada Village: Bhatapur

Tehsil: Bissamcuttack

Name of Forest Division: Rayagada Range: Muniguda

Block/Compartment/Survey No. BP-146 to BP-160

Area to be afforested: 1.749 Acre

Details of degraded forest land / non-forest land :-

District: Rayagada Village: Hirisamati

Tehsil: Bissamcuttack

Name of Forest Division: Rayagada Range: Muniguda

Block/Compartment/Survey No. BP-82 to BP-87

Area to be afforested: 0.588 Acre

Details of degraded forest land / non-forest land :-

District: Rayagada Village: Kurumpeta

Tehsil: Rayagada

Name of Forest Division: Rayagada Range: Rayagada

Block/Compartment/Survey No. BP-161 to BP-164

Area to be afforested: 0.250 Acre

2. Description of Area

- I) Whether the site selected for compensatory Afforestation is a land bank or not: Land Bank
- II) If the CA site is other than the land bank, reasons be given: NA
- III) In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Just to the boundary
- IV) Soil type: Clayey sandy soil
- V) Topography:
 - (a) Hilly / Undulating / Plain: Hilly
 - (b) Slope: Steep / Medium / Gentle: Medium

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VI) Whether the area is bearing any root stock of vegetation: No

3. Plantation Model :-

Copy of the approved Compensatory Afforestation Scheme / Model showing component wise physical and financial break up to be enclosed.

4. Schedule of Plantation Programme :-

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

Year	Area in Ha.	Rate / Ha.
0 th Year	12.0	1,54,455.00
1 st Year	12.0	1,15,727.85
2 nd Year	12.0	44,065.35
3 rd Year	12.0	26,322.45
4 th Year	12.0	24,036.60
5 th Year	12.0	8,816.85
6 th Year	12.0	8,816.85
7 th Year	12.0	8,816.85
8 th Year	12.0	8,816.85
9 th Year	12.0	8,816.85
10 th Year	12.0	8,816.85
Supervision Charge (Total Cost)	12.0	19,881.35
Total	12.0	4,17,508.35

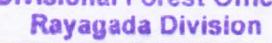
5. Technical details :-

Technical details of Compensatory Afforestation Scheme are as follows :-

- General Details: AR Block Plantation (BALD HILL)
- Spacing: 2.5M x 2.5M
- Species: Amla, Ambada, Bahada, Maha Neem, Kanchan, Khaira, Agasti, Sisso, Ritha, Sahada, Panasa, Gambhari, Arjuna, Neem, etc.
- Plantation Method: Manual
- Soil and moisture Conservation works :- Will be done in staggered trenches method
- Protection (Fencing, Watch man, People's Participation etc.) :- Bamboo fencing and by engaging watch & ward.
- Proposed Monitoring Mechanism :- To be maintained by the Forest Department.

Y. Q.
A.G.M./P/RVNL/WAT


V.C. Divisional Forest Officer
Rayagada Forest Division

Divisional Forest Officer
Office Seal  Rayagada Division

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**SCHEME FOR BALD HILL OVER 12.0 HA IN
BALIAKHANDA RF IN RAYAGADA DIVISION AGAINST
PROPOSED DIVERSION OF 5.858 HA. OF FOREST LAND
FOR CONSTRUCTION OF 3rd RAILWAY LINE BETWEEN
TITILAGARH TO VIZIANAGARAM UNDER EAST COAST
RAILWAYS BY RVNL (PROPOSAL NO.
FP/OR/RAIL/35352/2018)**



AT/PO: Office of the Chief Project Manager-II
New LIC Building, Thikkana Road,
R V N L / Waltair
(Vizianagaram-Titlagarh 3rd Line Project)
North block, 2nd floor,
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SCHEME FOR BALD HILL OVER 12.0 HA IN BALIAKHANDA RF AGAINST PROPOSED DIVERSION OF 5.858 HA. OF FOREST LAND FOR CONSTRUCTION OF 3rd RAILWAY LINE BETWEEN TITLAGARH TO VIZIANAGARAM UNDER EAST COAST RAILWAYS BY RVNL (PROPOSAL NO: FP/OR/RAIL/35352/2018)

● **INTRODUCTION: -**

- a) RVNL functions as an extended arm of the Ministry of Railways working for & on behalf of MoR (Ministry of Railway). It is empowered to act as an Umbrella SPV to undertake project development, resource mobilization etc. directly or by creating project specific SPVs or by any other financing structure found suitable. RVNL is a proud Mini-Ratna CPSE under the Ministry of Railways, Government of India.
- b) The proposed 3rd railway Line between Titlagarh- Vizianagaram for a length of 264.60 km was sanctioned in the year 2015-16. The project is passing through two states viz, Odisha & Andhra Pradesh and connecting 26 number of stations in two districts of Odisha & one district of Andhra Pradesh. Out of 264.6kms, diversion of forest land is required over 5.858 Hac. in a length of 92kms between Lanjigarh – Rayagada in Rayagada district and Rayagada Forest Division. The section between LANJIGARH ROAD AND RAYAGADA is proposed for commissioning starting from 2020 – 21 to 2022 – 23.
- c) Requisition for forest land diversion was submitted online on dt.13.03.2020 in the Parivesh Portal of the Ministry of Environment, Forest & Climate Change. Authentication of DGPS Survey by Orissa Space Application Centre was accorded in Feb 2020. The Hard Copies of the diversion proposal could not be submitted immediately for want of identification of double the extent of degraded forest land for Compensatory Afforestation, DGPS survey of the same, preparation of Compensatory Afforestation Proposal, which have been accomplished in the meantime and hence this CA Proposal is being submitted along with the hard copies of the proposal. Besides, tree enumeration in the proposed forest and non-forest land have been completed in the meantime and is being submitted herewith.
- d) Lanjigarh to Rayagada totally falls in Rayagada Forest Division in Rayagada District, Odisha. Basically, Rayagada district comprises of meadows, forests, waterfalls and terraced valleys, inhabited by many primitive tribal groups at various forested pockets. The population distribution in the district reflects unity in diversity of races, languages/dialects and culture. The district generates income mainly through agriculture-based activities.

● **PROJECT DETAILS: -**

Length of the Project	264.60 km (Odisha-163 km, AP-101.6 km)
Year of Sanction	2015-16 (DPR/DE sanctioned on 10-6-2016)
Total Forest diversion required	5.858 Hac.
Total CA Land Required & Identified	12.0 Ha (out of the Gross Area of 13.5 Ha) in Baliakhanda RF of Tikiri Range in Rayagada Forest Division.

● **SELECTION OF AREA:**

A degraded patch of forest land with a gross area to the extent of 13 Ha has been selected in Baliakhanda RF in Tikiri Range in Rayagada division which falls under Plantation Working Circle of the approved Working Scheme of Rayagada Division. Baliakhanda RF is mostly devoid of vegetation. The terrain is hilly with little soils and is covered with boulders. The site is found suitable for Bald Hill Plantation with green fencing, brushwood fencing and further reinforced with barbed wire fencing is being proposed to ensure total protection of the area during and after plantation with a ten year maintenance cycle. The net plantable area is 12.0 Ha. The site is near Pitajodi village. However the terrain is hilly and during rainy season it is difficult to approach the site in ordinary vehicle.

● **CHOICE OF SPECIES:**

The following indigenous species are proposed to be planted as per the site condition.

Sl. No.	Local Name.	Botanical Name.
1.	Amla.	Emblica officinalis
2.	Ambada.	Spondias dulcii.
3.	Behada	Terminalia bellirica
4.	Maha Neem	Genus Azadirachta
5.	Kanchan	Bauhinia purpurea.
6.	Khaira	Acacia catechu.
7.	Agasti	Sesbania grandiflora
8.	Sisoo	Dalbergia sissoo & Dalbergia latifolia
9.	Ritha	Sapindus mukorrossi.
10.	Sahada	Streblus asper.
11.	Panasa	Artocarpus heterophyllus
12.	Gambhari	Gmelina arborea
13.	Arjuna	Terminalia Arjuna
14.	Neem	Azadirachta Indica

15.	Mango	<i>Mangifera indica</i>
16.	Cashew	<i>Anacardium occidentale</i>
17.	Bamboo	<i>Dendrocalamus strictus & Bambusa bamboos</i>
18.	Others	Indigenous spp.

- **OBJECTIVES:**

The overall objectives of the project are as mentioned below: -

Maintaining and increasing green cover with indigenous species is the primary objective of the National Forest Policy. Due to proposed diversion of forest land there will be loss of bio-diversity when the project will be started. In order to compensate the loss, compensatory afforestation over double the extent in degraded forest land, preferably inside Rayagada forest division, is being contemplated. For this purpose, a gross area to the extent of 13 Ha has been selected in Baliakhanda RF in Tikiri Range in Rayagada division which falls under Plantation Working Circle of the approved Working Scheme of Rayagada Division. Baliakhanda RF is mostly devoid of vegetation. The terrain is hilly with little soils and is covered with boulders. Therefore, approach of Bald Hill Plantation with green fencing, brushwood fencing and further reinforced with barbed wire fencing is being proposed to ensure total protection of the area during and after plantation. Effort would be made to plant species in multi-tier such that benefits can be accrued throughout the year, ensuring maximum survival, growth and return therefrom. It is likely to develop a replicable and viable model of plantation with careful selection of species.

- **METHODOLOGY:**

The project would be implemented by Rayagada Forest Division considering the following conditions.

Project Components:

Plantation of 18 month old saplings of indigenous species suitable for the selected site would be taken up at a spacing of 2.5 Mtrs X 2.5 Mtrs. So, 19200 nos. of seedlings will be planted in an effective area of **12.000 ha**.

The cost norm has been taken to that of Block Plantation (**Annexure – I**) approved by the PCCF, Odisha for success of the plantation, maintenance has been provided for 10 years.

Site Development:

Before taking up the proposed plantation, the entire identified site shall be properly demarcated and cleaned. Apart from this, in the plantation area silvicultural operation like climber cutting, cutting of high stumps, cutting of diseased/malformed trees shall be completed before spring. It will encourage new shoots to come up. Care shall be taken to see that no permanent gap is created consequent upon cleaning operation.

Nursery:

Nursery to raise the required number of seedlings of indigenous species shall be started 18 months prior to the plantation so that healthy, well grown 18 month old saplings are available for plantation for better survival and growth. Good seeds from middle aged healthy plants shall be collected & whenever necessary treatment of seeds shall be done. Soil, Cow dung Manure and sand should be mixed properly and polythene bags should be filled carefully. In case of disease or insects attack, proper fungicide and insecticide should be applied in time. As far as possible bio-fertiliser, bio-insecticide shall be used. Watering shall be done judiciously. Weak seedlings shall be culled from the beginning to obtain plantable seedlings.

Digging of Pits:

Since planting will be done with 18 month old saplings, 45 cm X 45 cm X 45 cm size pits shall be dug before onset of monsoon, preferably between November and March. Soil on upper and lower portion of pits shall be put separately in a specific direction so that while planting, the pits will be filled with top soil first.

Plantation:

Planting will be done just before onset of monsoon. Polythene bags from the seedlings should be removed carefully without disturbing the ball of earth. After putting the seedlings carefully, the pits should be filled first with top soil mixed with bio-fertiliser and bio-insecticide and then bottom soil should be put in the pit and compacted properly. Planting site should be made saucer shaped in plains and in slopes half-moon trench shall be done. In case of mortality, casualty replacement shall be done as soon as possible.

Post-planting operation:

Weeding, Soil-working, application of bio-fertilizer etc. should be done in time properly. It can also be applied by making 3 holes with the help of crowbar. 1st weeding shall be carried out over the entire area of plantation and the 2nd weeding must be in strips.

Protection:

Plants planted on bald hill require more care & protection in comparison to other plantations. Therefore, the planting area shall be firmly protected from grazing, browsing, fire and from other biotic interference. Fire-line shall be cleared properly and timely executed. The plantation shall be protected through green fence, barbed wire fence as well as protection watchers for a period of 10 years till it is fully established with desired density as close to natural forests as possible.

Monitoring, Evaluation and Supervision:

In keeping with the prime objectives of compensatory afforestation, it is desirable to continuously monitor the plantation which is being contemplated in a difficult terrain to consistently evaluate all parameters to ensure its success in the short and long term. Monitoring & evaluation shall be done regularly as per CAMPA guidelines as well as through field functionaries of Rayagada division. To achieve this, it is required to regularly supervise the plantation by DFO, ACFs, Range Officer, Forester and Forest Guard. The selected terrain is a bald hill and the road communication is many times crippled due to bad road conditions. Therefore, a dependable vehicle with off-roader capability like a Jeep with 4WD or similar vehicle is very essential to enhance mobility of field staff for proper supervision, monitoring and evaluation on a regular basis. Hence, it is proposed to include provision for such a vehicle to be provided to Rayagada division by the User Agency in the shape of kind in this Compensatory Afforestation Proposal, the cost of which may be Rs. 20.0 lakhs with all accessories, road tax and insurance.

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A.G.M./P/RVNL/WAT

[Signature]
b. Divisional Forest Officer,
Rayagada Forest Division
DIVISIONAL FOREST OFFICER
Rayagada Division

**COST NORM FOR BALD HILL PLANTATION OVER 12 HA. OF FOREST LAND IN AR MODE AT
2.5 M x 2.5 M SPACING
(WAGE RATE Rs. 311/- PER DAY)**

1.	Type of the Plantation.	AR Block Plantation (BALD HILL)
2.	No. of seedlings to be planted.	1600 Nos. per hectare
3.	Spacing to be adopted.	2.5m x 2.5m
4.	Size of pits.	45cm x 45cm x 45cm
5.	Wage rate.	Rs.311.00/- per manday.
6.	Species to be planted.	Amla, Ambada, Bahada, Maha Neem, Kanchan, Khaira, Agasti, Sisso Ritha, Sahada, Panasa, Gambhari, Arjuna, Neem etc.
7.	The user agency will pay the additional wage rate as and when enhanced.	

Annexure-13

**COST NORM FOR BALD HILL PLANTATION @ 1600 PLANTS PER HECTARE
(Labour cost @ Rs.311/- per manday)**

Sl. No.	Item of Work	Preferable Period of execution	Manday	Labour Cost (Rs.311/day)	Material Cost (Rs.)	Total Cost in (Rs.)
PREPARATORY OPERATION (0th YEAR)						
1	Survey and demarcation	June	2	622	0	622
2	Fencing (i) For an average of 126 meters/ha @ Rs.76.19/- per meter for bamboo twigs and bamboo thorn fencing (L:M=40:60) (ii) To be strengthened by planting of bamboo and other seedlings in two rows Bamboo to be planted at 2 meters spacing in staggered manner on the two rows and the rest of the species to be planted at $\frac{1}{2}$ meter spacing along the two rows, the rows being 2m apart. Thus 500 plat (125 bamboo and 375 others) to vegetative fence	June-Sep t	19	5909	4280	10189
			11	3421	3391	6812

	(Bamboo seedlings @ Rs.12.43 per seeding x 125 = Rs.1553.75, Agave seeding @ Rs.4.90 per seeding x 375=Rs.1837.5)					
3	Pitting (1600 per ha) each pit-45cm3	Nov-Dec	128	39808	0	39808
4	Soil and water conservation measures (a) Staggered trench along the contour @ 300 per ha (2.5m x 0.5m x 0.5m0; digging of percolation pits @ 600 per ha in lieu of staggered trenches, gully plugging and Drainage line treatment, half moon trench on the uphill side of each planting pit (100 MD for staggered trench / percolation pits and 30 MD for gully plugging drainage line treatment and half-moon trench).	Sept-No v	130	40430	0	40430
	(b) Site clearance – 8 MD, alignment and stacking of contour lines on ground, planting pits, contour trenches / percolation pits and check dam sites, etc. – 2 MD	July-Aug	10	3110	0	3110
5	Raising of seedlings in poly bags of one year 6 month seedling @ Rs.38.00/- seeding in the 1st year upto month of march Rs.26/- (1760 seeding to be raised for one hectare)	Oct-Mar	123	38253	7876	46129
	TOTAL 0th Year		423	1,31,553	15,547	1,47,100
6	Monitoring & Supervision charge 5% of the total cost					7,355.00
	GRAND TOTAL		423	1,31,553	15,547	1,54,455.00

PLANTING OPERATION (1st YEAR)

1	Cost of sapling (balance) from April-June/July @ Rs.12.0 per seeding for 1760 seedlings	April-Jul y	55	17105	4180	21,285
2	Freshening of pits – 64 MD, filling with fertile with fertile soil and farm yard manure (FYM) – 24 MD, application of insecticide and planting of 60 cm tall saplings including carriage of plants – 21 MD	June-Jul y	109	33899	0	33899
3	Cost of Fertile Soil 0.25 cft @ Rs.8 per cft/FYM 0.25 cft @ Rs.15 per cft per pit		0	0	9200	9200
4	Sowing of seeds on dug out earth of trench	June	6	1866	200	2066
5	Carriage-6MD, Planting including Causality replacement – 6 MD, fertilizer application – 5 MD, 1 st weeding – 7MD, 2 nd weeding – 5 MD, soil working – 7 MD	July-Aug	36	11196	0	11196

6	Cost of Fertilizer and insecticide (Granular Insecticide @ 5 gms/Plant @ Rs.80/- per kg=rs.640.00. NPK 100 gms/Plant in two doses @ Rs.24 per kg=3840		0	0	4480	4480
7	Repair and maintenance of bamboo fence including material cost	Aug-Oct	15	4665	2540	7205
8	Maintenance of soil and Moisture Conservation measures (20% of Cost)	Oct-Dec	26	8086	0	8086
9	Closure to grazing fire and other biotic interference by engaging watch & ward.	April-Mar	30	9330	0	9330
10	Fire tracing and control display board construction painting/writing other miscellaneous cost.	Jan-Feb	10	3110	360	3470
TOTAL 1st Year			287	89,257	20,960	1,10,217
11	Monitoring & Supervision charge 5% of the total cost					5,510.85
GRAND TOTAL			287	89,257	20,960	1,15,727.85

MAINTENANCE OPERATION (2nd YEAR)

1	Casualty replacement – 6 MD including seeding cost @ Rs.12.43 per seedling and its transportation.	June-Jul y	10	3110	1989	5099
2	Soil working-7 MD 1st weeding-6 MD, 2nd weeding-6 MD and fertilizer application-4MD	Aug-Oct	23	7153	0	7153
3	Cost of fertilizer50 gms NPK per plant@ Rs. 24/- per kg for 1600 plants =Rs. 1920.00 Insecticide 5gm per plant for 150 nos of plants Rs 80 per KG = Rs. 64.00		0	0	1984	1984
4	Repair and maintenance of bamboo fence including material cost.	Aug-Oct	15	4665	2540	7205
5	Maintenance of Soil and Moisture Conservation measures (20% of cost).	Aug-Oct	26	8086	0	8086
6	Fire tracing and control and other miscellaneous cost.	Feb-Mar	10	3110	0	3470
7	Closure to grazing fire and other biotic interference by engaging watch and ward.	April-Mar	30	9330	0	9330
TOTAL 2nd Year			114	35,454	6513	41,967
8	Monitoring & Supervision charge 5% of the total cost.					2,098.35
GRAND TOTAL			114	35,454	6513	44,065.35

MAINTENANCE OPERATION (3rd YEAR)

1	Repair and maintenance of fence-15 MD/ (in case of barbed wire fencing Rs.9000/- for repair), SMC measures (Renovation)-26 MD and maintenance of plantation-14 MD as per requirement	April-Mar	55	17105	500	17605
2	Closure to grazing, fire and other biotic interference by engaging watch and ward	April-Mar	24	7464	0	7464
TOTAL 3rd Year			79	24,569	500	25,069
3	Monitoring & Supervision charge 5% of the total cost					1,253.45
GRAND TOTAL			79	24,569	500	26,322.45

MAINTENANCE OPERATION (4th YEAR)

1	Repair and maintenance of fence-13 MD/no. maintenance in case of barbed wire fencing. SMC measures 21 MD and maintenance of plantation-14 MD	April-Ma r	48	14928	500	15428
2	Closure to grazing, fire and other biotic interference by engaging watch and ward	April-Ma r	24	7464	0	7464
	TOTAL 4th Year		72	22,392	500	22,892
3	Monitoring & Supervision charge 5% of the total cost					1,144.60
	GRAND TOTAL		72	22,392	500	24,036.60

5th YEAR MAINTENANCE WORKS

1	Fire line Tracing (2 m wide fire line over 400 m length).		3	933	-	933
2	Watch & Ward.		24	7,464	-	7,464
	Sub Total		27	8,397	0	8397
3	Monitoring & Supervision Charge 5% of the total cost.		0	-	-	419.85
	Total 5th Year		27	8,397	0	8816.85

6th YEAR MAINTENANCE WORKS

1	Fire line Tracing (2 m wide fire line over 400 m length).		3	933	-	933
2	Watch & Ward.		24	7,464	-	7,464
3	Sub Total		27	8,397	0	8397
	Monitoring & Supervision Charge 5% of the total cost.		0	-	-	419.85
	Total 6th Year		27	8,397	0	8816.85

7th YEAR MAINTENANCE WORKS

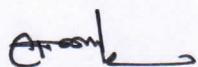
1	Fire line Tracing (2 m wide fire line over 400 m length).		3	933	-	933
2	Watch & Ward.		24	7,464	-	7,464
3	Sub Total		27	8,397	0	8397
	Monitoring & Supervision Charge 5% of the total cost.		0	-	-	419.85
	Total 7th Year		27	8,397	0	8816.85

8th YEAR MAINTENANCE WORKS

1	Fire line Tracing (2 m wide fire line over 400 m length).		3	933	-	933
2	Watch & Ward.		24	7,464	-	7,464
3	Sub Total		27	8,397	0	8397
	Monitoring & Supervision Charge 5% of the total cost.		0	-	-	419.85

	Total 8th Year	27	8,397	0	8816.85
9th YEAR MAINTENANCE WORKS					
1	Fire line Tracing (2 m wide fire line over 400 m length).	3	933	-	933
2	Watch & Ward.	24	7,464	-	7,464
3	Sub Total	27	8,397	0	8397
3	Monitoring & Supervision Charge 5% of the total cost.	0	-	-	419.85
	Total 9th Year	27	8,397	0	8816.85
10th YEAR MAINTENANCE WORKS					
1	Fire line Tracing (2 m wide fire line over 400 m length).	3	933	-	933
2	Watch & Ward.	24	7,464	-	7,464
3	Sub Total	27	8,397	0	8397
3	Monitoring & Supervision Charge 5% of the total cost.	0	-	-	419.85
	Total 10th Year	27	8,397	0	8816.85
	Grand Total	1137	3,53,607.00	44,020	4,17,508.35





K. C. Divisional Forest Officer,
Rayagada Forest Division,
Divisional Forest Officer
Rayagada Division

Annexure-II

A B S T R A C T
(Cost Norm for Bald-hill Plantation for one Hectare in Rupees)

Year	Person Days	Labour Cost (Rs.)	Material Cost (Rs.)	Total Cost (Rs.)	Monitoring & Supervision Charges @ 5% of the Total Cost (Rs.)	Grand Total
0th Yr	423	1,31,553	15,547	1,47,100	7,355.00	1,54,455.00
1st. Yr	287	89,257	20,960	1,10,217	5,510.85	1,15,727.85
2nd. Yr	114	35,454	6,513	41,967	2,098.35	44,065.35
3rd. Yr	79	24,569	500	25,069	1,253.45	26,322.45
4th Yr	72	22,392	500	22,892	1,144.60	24,036.60
5th Yr	27	8,397	0	8,397	419.85	8,816.85
6th Yr	27	8,397	0	8,397	419.85	8,816.85
7th Yr	27	8,397	0	8,397	419.85	8,816.85
8th Yr	27	8,397	0	8,397	419.85	8,816.85
9th Yr	27	8,397	0	8,397	419.85	8,816.85
10th Yr	27	8,397	0	8,397	419.85	8,816.85
Total	1,137	3,53,607.00	44,020.00	3,97,627.00	19,881.35	4,17,508.35

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 A.G.M./P/RVNL/WAT

Chandru
 1/c. Divisional Forest Officer
 Rayagada Division

Annexure - III

Sl. No.	ITEM OF WORK	TOTAL ESTIMATED COST IN Rs.
1.	Bald-hill plantation over 12.00 ha with maintenance for 10 years @ Rs4,17,508.35 per hectare.	50,10,100.20
	Sub-Total	50,10,100.20
	Add 20% escalation.	10,02,020.04
3.	Provision of an off-roader Jeep or similar vehicle with 4XWD facility for mobility of field staff in difficult terrain with all accessories, road tax and insurance, to be provided by the User Agency to the Divisional Forest Officer, Rayagada Division, in shape of kind.	25,00,000.00
	TOTAL	85,12,120.24

TOTAL PROJECT COST IN RUPEES

Say Rs 85,12,120.00 (Rupees Eighty -Five Lakh Twelve Thousand One Hundred Twenty) only.

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A.G.M./P/RVNL/WAT

Chhondi
1/c Divisional Forest Officer.
Rayagada Forest Division.
Divisional Forest Officer
Rayagada Division