

#### OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION

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Memo No. 2673 /6F-Mining-77/2017 Dated, Keonjhar the 21-04-/2018

To

The Regional Chief Conservator Forests,

Rourkela Circle, Rourkela

Sub:

Diversion of 232.438 ha (originally proposed 539.4047 ha) of forest land in Gandhamardan Block-B for 1<sup>st</sup> renewal of mining lease for iron mining in favour of M/s Orissa Mining Corporation Limited in Keonjhar District, Odisha.

X-Sub:

Submission of scheme for Bio-diversity Conservation Measures in the impact zone of Gandhamardan Block- A & B Iron Ore Mines of M/s OMC

Ltd.

Ref:

F. No. 5-ORA014/2005-BHU dated 18.10.2007 of ERO, MoEF, Govt. of India, Bhubaneswar, memo No. 5411/F&E dated 08.03.2018 of Special Secretary to Govt. F&E Department and memo No. 6092 dated 22.03.2018 of Addl. Principal Chief Conservator of Forests, Forest Diversion and Nodal Officer, FC Act, O/o the PCCF, Odisha, Bhubaneswar.

With reference to the above cited letters on the captioned subject, the scheme for Bio-diversity Conservation Measures in the impact zone of Gandhamardan Block- A & B Iron Ore Mines of M/s OMC Ltd at the present wage rate of Rs. 213.50 per MD with a financial outlay of Rs. 834.63 lakh (Rupees eight crores thirty-four lakh and sixty-three thousand) only is sent herewith in compliance with the additional condition No. 14 of the Stage-II approval dated 18.10.2007 of Eastern Regional Office, MoEF, Govt. of India, Bhubaneswar for favour of kind information and necessary approval.

#### Encl:- Scheme in Five sets

Divisional Forest Officer, Keonjhar Division

Memo No. 2674 /Dated 21-04-20/8

Copy submitted to the Addl. Principal Chief Conservator of Forests, Forest Diversion and Nodal Officer, FC Act, O/o the PCCF, Odisha, Bhubaneswar for favour of kind information and necessary action with reference to his memo No. 6091 dated 22.03.2018.

Divisional Forest Officer,

Keonjhar Division

#### FINANCIAL OUTLAY

# TOWARDS IMPLEMENTATION OF MITIGATIVE MEASURES

#### PRESCRIBED IN THE

# BIO-DIVERSITY CONSERVATION PLAN PREPARED BY NIT, ROURKELA IN THE IMPACT ZONE

**OF** 

GANDHAMARDAN BLOCK- A & B IRON ORE MINES

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M/S OMC LTD

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#### 1.0 INTRODUCTION

MoEF, Govt. of India vide letter F. No. 8-81/2005-FC dt. 17.08.2007 granted Stage-II Forest Clearance over 232.438 ha pertaining to Gandhamardan-B Iron Ore Mines of OMC subject to compliance of 12 conditions stipulated therein. Eastern Regional Office (ERO), MoEF, Govt. of India, Bhubaneswar vide letter no. 5-ORA014/2005-BHU dt. 18.10.2007 imposed additional three conditions. The condition no. 14, imposed by ERO, Bhubaneswar states that "An undertaking from the User Agency shall also be obtained to the effect that the required funds or proportionate contributions for Biodiversity Conservation Plan of the district/Zone shall be provided by the project authority to the Forest Department as per the requirement and as may be asked by the Forest Department."

In order to comply the above condition, the following steps were initiated:

- OMC requested APCCF (N) on dt 19.12.2015 to approve engagement of NIT, Rourkela for preparation of the Biodiversity Conservation Plan for Gandhamardan- A & B Mines including its impact area in BJP (Bhuyan-Juang-Pirha) Range of Keonjhar Forest Division.
- APCCF (N) requested the State Govt. vide letter no.8714, dt03.05.2016 to approve the name of NIT, Rourkela.
- State Govt. approved the proposal of APCCF (N) to engage NIT, Rourkela vide letter no.8904, dt 11.05.2016 and advised to get consent from them with terms of reference and cost estimate.
- As per the advice of APCCF (N)vide letter no.11272,dt 4.06.2016, OMC requested NIT, Rourkela to furnish terms of reference for preparation of the Biodiversity Conservation Plan vide letter no.8858, dt 08.06.2016.
- OMC forwarded the reply by NIT, Rourkela dt 20.07.2016 to APCCF (N) vide letter memo no.10702, dt 20.07.2016 for approval.
- Special Secretary to Govt. F&E Dept. approved the proposal vide letter no.15018, dt12.08.2016 submitted by APCCF (N) vide letter memo no.14493 dt 28.07.2016.
- OMC vide letter no.12604, dt. 30.08.2016 deposited the cost of preparation of Bio Diversity Conservation Plan by NIT, Rourkela and requested to expedite the study.

- NIT, Rourkela conducted the study and submitted the final report to State Govt. vide letter dt. 05.02.2018.
- Special Secretary to Govt. requested DFO, Keonjhar vide letter no. 5411 dt. 08.03.2018 to prepare a financial estimate for implementing the mitigative measures suggested in the final report of Biodiversity study submitted by NIT, Rourkela.
- APCCF (N), vide letter No. 6091, dt 20.03.2018 requested DFO, Keonjhar to complete the work and submit the report for necessary approval.
- Hence the current financial report is furnished for approval.

# 2.0 ACTIVITIES PRESCRIBED IN THE BIO-DIVERSITY CONSERVATION PLAN BY NIT, ROURKELA

# A. Mitigation measures for floral species

## 1. Revegetation/Regeneration:

Re-vegetation can play an important role in minimizing the impact of mining project on the floral diversity. It incorporates both landscaping and habitat rehabilitation. The objectives of these two forms are different and call for different techniques and plant selection.

Plant species used in landscaping will be mainly local native species but may also include various non-indigenous medicinal and ornamental species. However, no species which display characteristics of environmental weeds shall be used and preference shall be given to endemic natives in each case. The overall objective of habitat rehabilitation will be to restore or recreate vegetation the same as originally occurring in the project area.

An area over 300 ha has been proposed for ANR plantation with 200 no. plants/ha whereas an area over 150 ha has been proposed for bald hill block plantation over 150 ha in 13 forest blocks of Gandhamardan region.

# 2. Soil and Moisture Conservation Measures

Soil erosion on fragile steep hilly slope containing biodiversity may be alarming which may have siltation in surrounding nallas including in study area and streams which are tributary of river Baitarani. Therefore, soil conservation measures shall be taken up in the mining area to prevent siltation and thus restore the normal water flow.

Hence, intensive soil and moisture conservation measures in the degraded areas shall be taken up to prevent soil loss and to foster natural regeneration and improvement of existing growing stock for protection of bio-diversity and recharge of ground water table. This may be achieved through construction of check dams on seasonal nallas both by vegetative and masonry manner staggered trenching and contour bund on slope areas. Planting of Agave on the bank of the nala situated in the mining lease area shall also arrest soil from being washed away during torrential rain/surface runoff.

Staggered contour trench of  $2mtr \times 0.5$  mtr  $\times 0.5$  mtr size of 20000 nos will be constructed in different part of the forest area. Loose boulder check dams of 1m, 2m and 3m will be constructed to arrest siltation.

## B. Measures for faunal diversity.

# 3. Prevention of fall of wild animals into mining pit

- a. The mining site should be properly fenced to prevent any encroachment or crossing of both domestic and wild animals into the mining site. Proper demarcation of the mining area should be made which may be with solar fencing all around the mining area.
- b. Movement patterns of many wildlife species are often associated with drainage lines or can be modified with mesh fencing to encourage small vertebrate species and amphibians to cross through it.
- c. Mitigatory measures for the birds and other small reptiles may be adopted by building of nests in the electric posts and nearby bushes in core zone to provide alternative shelters to destitute avifauna. Nesting boxes can be installed in tall trees like Artocarpus heterophyllus, Delonixregia.
- d. General awareness programs should be conducted to create awareness among the local people on wild life and its conservation. The local must be motivated to participate in various awareness programmes on human-wildlife conflict. They must be advised not to explore the forests for collection of fuel-wood, bee hive, berry, bamboo, kendu leaves and other wild fruits.
- e. It is proposed that bird bath in sufficient number and with appropriate size to be created and maintained properly to avoid contamination to provide clean water. Water may be filled in the bath by a hand operated tube well, which should be installed adjunct to bird bath. Accordingly, the site should be selected where ground water is most likely to be available. The bird bath should be disinfected by addition of KMnO<sub>4</sub> solution soon after cleaning.

#### 4. FIRE MANAGEMENT

Fire affects seriously the ecological status of the wildlife habitats and biodiversity in general. It is anthropogenic in origin. Repeated forest fires burns the sub-surface flora, fauna, soil microbial population and sets in retrogation and deprives wildlife of their

cover and food. Burning of sub-surface flora also sets in soil erosion of different order over a period of time. Management of fire, is therefore assumes important consideration for the conservation of both floral & faunal diversity. Forest fires, that impacts bio-diversity are normally caused by local people in the process of collection of NTFP and shifting cultivation practices.

- a. <u>Creation of awareness:</u> It is important that awareness about the adverse effects of fire should be created amongst the local people. It is also necessary to involve them in preventing and controlling fires.
- b. <u>Incentive to local villagers:</u> The local villagers may be involved in fire fighting, prevention of grazing, shifting cultivation, poaching etc. Local people involved for this purpose will be given incentive, may be in terms of cash award on annual basis as informed by OMC.
- c. Deployment of fire protection squad: As proposed by OMC, a fire protection squad consisting of local young and energetic youths shall be constituted. They shall be provided with a hired vehicle, search lights, fire-fighting tools etc. to extinguish incidental fire as when and where required following guideline prescribed by CWLW, Odisha under the supervision of local forest staff.
- d. Provision for vehicle fitted with water tanker, pipes and fire blowers: As Gandhamardan Block B even other surrounding forest areas are encircled by human habitations, there is every chance of incidental fires. Therefore it is required to provide a vehicle fitted with water tanker, fire blower etc. to the fire protection squad to extinguish the forest fire without causing any damage to the biodiversity of the zone.
- e. <u>Deployment of biodiversity protection squad</u>: Similar to fire protection squad, a biodiversity protection squad shall be formed to protect the biodiversity of the study and its surrounding areas to act against any illegal activities like illicit felling, collection of uncontrolled fruits, flowers, leaves, burring of forest floor and more over shifting cultivation, that occurs in the biodiversity area by the local people.

# 5. CAPACITY BUILDING PROGRAM

The company shall provide appropriate capacity building program to the local villagers who are forest dependant. Some of the program is suggested as - honeybee keeping, mushroom and vegetable cultivation, press khalli preparation, involvement of SHG in incense stick preparation and other cottage industry activities. These will also reduce forest dependence of the local villagers and thereby further degradation floral and

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faunal diversity can be avoided. Some of the capacity building activities are narrated below:

## a. Vegetable and Mushroom cultivation:

Since the villages in the mining site are in proximity of Keonjhar town and Joda-Barbil mining belt, the above products shall be always in demand. The product can be profitably grown, if proper seeds and training are given to the people. In this context, company has confirmed to collaborate with Horticulture Department.

#### b. Honey Bee keeping:

The villagers are mostly tribal. Bee keeping shall be very much profitable to them, if they adopt such business. The District Small Scale Industries Centres may be requested to provide them necessary accessories, technical guidance and marketing facilities under some poverty eradication programme.

#### c. Poultry

Generally, there is good demand for poultry meat and eggs in mining and industrial areas. Some house hold poultry, broilers and layer bird farm may be set up by the local village people. For this, necessary training and support shall be provided by the District Animal Husbandry Department.

# d. Manufacture of sal and siali leaf plates.

This small scale industry is very much popular among the poor tribal by collecting leaves from the forests. Therefore, if financial and technical supports are provided to them under the guidance of Small Scale Industries Department, the local people will be benefited from this industry.

#### c. Self Help Group

Women Self Help Groups are being encouraged in the State of Odisha in a big way to make them self-reliant. Some SHG groups are functioning in BJP range, located in Gandhamardan region. They are engaged in vegetable cultivation, Poultry, Goatery, Fishery, Tamarind business etc. So the above activities and marketing of products shall be taken up through such groups. This will not reduce the forest dependence of the villagers but also uplift their economic status.

# f. Farm Forestry and Institutional Planting:

Indigenous plants can be planted on the farm bunds, village community land, avenues and different institutions existing in the proposed mining site. The species shall be fruit bearing like mango, panas, medicinal plants like Anla, Harida, Bahada, fodder species like Badachakunda, Sirisa, Barakoli, Babul etc. and small timber species like Acassia, Eucalyptus, Sunder kania bamboos etc. so that villagers in addition to improving the environment they can also meet their need of forest materials. This shall be encouraged with funds available with DRDA and funds from Orissa Forestry Sector development programme or from CAMPA as suggested by OMC.

#### g. Vaccination of cattle:

As the cattle of the area graze in the forest by tradition and come in contact with wild herbivores, any cattle born epidemic may affect wild animals. Hence, the cattle population should be immunized at regular intervals with the help of local veterinary Department. This will not only prevent spread of cattle borne diseases to wild animals but also raise the milk yielding capacity of the domestic cows.

# h. Live-stock grazing Control:

Awareness program shall be organized time to time to refrain from grazing of live-stock in the forest areas such practice. This will be done through the members of VSS (Van Sanrankshyan Samities) as informed by company (OMC).

# i. Monitoring, Evaluation Mechanism and Training:

A monitoring cell is to be created at the Division Hqrs. headed by one of the Assistant Conservator of Forests working in the Division office. He will be assisted by one computer data operator.

## 3.0 FINANCIAL OUTLAY

SI.	Activities	Financial break up (In Lakhs)	Remarks
No.	D 4: ID	Bald Hill plantation	Rs 136.90 lakhs have
	Regeneration/Revegetation:	over $150 \text{ ha} = \mathbf{Rs}$ .	already been deposited
	Plantation will be taken up in	381.78 lakh	for 204 ha against
	suitable area.		Gandhamardan-A and
		[Annexure- I] (Cost	250 ha against
		Norms with 10 years	Gandhamardan-B
		maintenance)	towards plantation in
			ANR mode as per the
			approved SSWLCP
			within zone of
			influence. Accordingly,
			ANR plantation is not
			suggested in this plan.
	· ·		Rs.58.90 lakh has been
2	Soil & Moisture	SCM with check dams,	deposited towards Soil
of St	conservation measures	gully plugging, contour	
		bund, staggered trench,	& Moisture Conservation Measures
		planting agave over	
		100 ha @ Rs.50000/-	in the approved
	4	per ha = Rs.50 lakh	SSWLCP for
		Staggered contour	Gandhamardan-A.
		trench in slope areas: 2	
		mtr x 0.5 mtr x 0.5 mtr	
	2	size 20000 nos @ Rs.	Ì
		56.20 each.= Rs. 11.24	
		lakh	
		Loose Boulder Check	I .
		Dams 1000 running	
		mtrs @ Rs 2561.10	
	*	(Annexure- II) = Rs.	
25		25.61 lakh	ā
2	*	Total = Rs. 86.85 lakh	
3	Measures for faunal diversit		Rs. 10 lakh has been
	Prevention of fall of wild	-	deposited by OMC a
a.	animals into mining pit		- N
	Mining site should be fenced		per the approved SSWCP towards solar
	with solar fencing		powered fencing
_			Gandhamardan B.
b.	Mess fencing across drainage		Gandhamardan D.
	line so that small vertebrate		
	and amphibians can pass	3	
	through it.	Service on the law of	
c.	Mitigatory measures for	Rs.10.0 lakh	
	birds and other small reptiles	5	
	by keeping artificial nests	•	

awareness among local people for wildlife conservation.  c. Construction of Bird Bath for protection of faunal species in summer  4 Fire management a Creation of awareness among local people b Incentive to local villagers  c. For hired vehicle for fire-fighting squad  d Deployment of Fire-fighting squad  d Deployment of Fire-fighting squad  Deployment of Fire-fighting squad  Deployment of Fire-fighting squad  Rs. 2.0 lakh Rs. 3.60 lakh has been deposited against Gandhamardan A.  Rs. 2.28 40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B. Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A Fire blower with maintenance Vehicle with water tanker to prevent forest fire  Rs. 2.0 lakh Rs. 2.0 lakh Rs. 2.1 lakh Rs. 2.1 lakh Rs. 2.2 lakh Rs. 2.2 lakh Rs. 2.2 lakh Rs. 2.2 lakh Rs. 2.1 lakh Rs. 2.2 lakh Rs. 2.3 lakh Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.	d.	Programme to creat		
people for wildlife conservation.    People for wildlife conservation.   Deal of Gandhamardan   A   Including training, awareness and management of interface between man and elephants.		creat	I LO. Z.V IAKII	Rs 27.50 lakh has beer
conservation.  Construction of Bird Bath for protection of faunal species in summer  Creation of awareness among local people  Rs. 16.0 lakh for 10 years for four months in a year @Rs. 40,000/month, @Rs. 1,60,000/year (Cost including fuel and driver)  Creation of awareness activity is earmarked in SSWLCP.  Rs. 3.60 lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Rs. 24.0 lakh  Rs. 24.0 lakh solved as per approved SSWLCP for Gandhamardan-A.  SWLCP for Gandhamardan A.  Rs. 24.0 lakh solved as per approved SSWLCP for Gandhamardan A.  Creation of suting the subject of t				pills 2000 000 000 000 000 000
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4 Fire management a Creation of awareness among local people b Incentive to local villagers c For hired vehicle for fire-fighting squad d Deployment of Fire-fighting squad  Deployment of Fire-fighting squad  Deployment of Fire-fighting squad  Rs. 16.0 lakh for 10 years for four months in a year @Rs. 40,000/ year (Cost including fuel and driver)  Rs. 228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Fire-fighting equipment  Rs. 5.0 lakh  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for persons for	ii.	protection of faunal species	Total Miking	-
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among local people  among local people  b Incentive to local villagers  c For hired vehicle for fire-fighting squad  d Deployment of Fire-fighting squad  d Deployment of Fire-fighting squad  c Fire-fighting equipment  c Fire-fighting equipment  c Fire-fighting equipment  c Fire-fighting equipment  d Rs.5.0 lakh  c Fire-fighting equipment  c Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent  Laves etc, and prevent  b Incentive to local villagers  Rs.16.0 lakh for 10 years for four months in a year @Rs. 40,000/month, @Rs. 1,60,000/month, @Rs. 1,60,000/month, @Rs. 228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs.5.0 lakh  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Rs.6.0 lakh  Rs. 44.0 lakh  raintenance  Vehicle with water tanker to prevent uncontrolled collection of fruits, flower, leaves etc, and prevent  among local people  Rs. 3.60 lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Rs. 4.0 lakh  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 4.5.0 lakh  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Rs. 4.5.0 lakh  Rs. 4.6.0 lakh lakh lakh lakh lakh lakh lakh lakh	4	Fire management		
among local people    Incentive to local villagers   Incentive to local villagers   Incentive to local villagers	a	Creation of awareness		
b Incentive to local villagers  c For hired vehicle for fire-fighting squad  d Deployment of Fire-fighting squad  d Deployment of Fire-fighting squad  c Fire-fighting equipment  Fire-fighting equipment  Rs.5.0 lakh  Rs. 3.60 lakhs has been deposited against Gandhamardan A.  Rs.228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent uncontrolled collection of fruits, flower, leaves etc, and prevent  Rs. 44.0 lakh  Rs. 145.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10		among local people	-	Provision for
b Incentive to local villagers  c For hired vehicle for fire-fighting squad  d Deployment of Fire-fighting squad  Deployment of Fire-fighting squad  Rs. 16.0 lakh for 10 years for four months in a year @Rs. 40,000/month, @Rs. 1,60,000/year (Cost including fuel and driver)  Rs. 228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment  Rs. 5.0 lakh  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent water for 10  Rs 145.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10		1-34-0		
b Incentive to local villagers  C For hired vehicle for fire-fighting squad  Deployment of Fire-fighting squad  Deployment of Fire-fighting squad  Deployment of Fire-fighting squad  Rs. 228.40 Lakhs has been deposited against Gandhamardan A.  Rs. 228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent uncontrolled collection of fruits, flower, leaves etc, and prevent water to manpower for 10  SSWLCP.  Rs. 3.60 lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 24.0 lakh  Rs. 24.0 lakh  Rs. 145.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10				
Rs 3.60 lakhs has been deposited against Candhamardan A.  For hired vehicle for fire-fighting squad  Deployment of Fire-fighting squad  Deployment of Fire-fighting squad  Rs.228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Fire-fighting equipment  Rs.5.0 lakh  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 45.0 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 45.0 Lakhs has been deposited towards engagement of persons for protection as per	b	Incentive to local -: 11-		SSWLCP.
Fire-fighting equipment  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent uncontrolled collection of fruits, flower, leaves etc, and prevent  Corporate of Fire-fighting squad  Rs. 16.0 lakh for 10 years for four months in a year @Rs. 40,000/month, @Rs. 1,60,000/year (Cost including fuel and driver)  Rs. 228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Rs. 6.0 lakh  Rs. 24.0 lakh  Rs. 145.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10	0	meentive to local villagers	_	
For hired vehicle for fire-fighting squad  Rs.16.0 lakh for 10 years for four months in a year @Rs. 40,000/month, @Rs. 1,60,000/year (Cost including fuel and driver)  Rs.228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent			ļ	
fighting squad    S.16.0 lakh for 10   years for four months in a year @Rs. 40,000/month, @Rs. 1,60,000/year (Cost including fuel and driver)    Deployment of Fire-fighting squad   Rs.228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.   Fire-fighting equipment   Rs.5.0 lakh   Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.    Fire blower with maintenance   Rs.6.0 lakh   Rs. 6.0 lakh   Rs. 24.0 l				Gandhamardan A
righting squad  years for four months in a year @Rs. 40,000/ month, @Rs. 1,60,000/ year (Cost including fuel and driver)  Rs.228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Fire-fighting equipment  Rs.5.0 lakh  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent uncontrolled collection of fruits, flower, leaves etc, and prevent wanpower for 10  years for four months in a year @Rs. 40,000/ month, @Rs. 145.0 (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10	C	For hired vehicle for fire-	Rs.16.0 lakh for 10	A.
in a year @Rs. 40,000/month, @Rs. 1,60,000/year (Cost including fuel and driver)  Deployment of Fire-fighting squad  Deployment of Fire-fighting squad  Rs.228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  in a year @Rs. 40,000/month, @Rs. 24.0 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Rs. 3.60 Lakh  Rs. 3.60 Lakh  Rs. 3.60 Lakh  Rs. 3.60 Lakh  Rs. 4.90 Lakh  Rs. 4.90 Lakh  Rs. 4.90 Lakh  Clincluding a vehicle with fuel and driver, skilled and un-skilled manpower for 10		fighting squad		
month, @Rs. 1,60,000/ year (Cost including fuel and driver)  Rs.228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  month, @Rs. 1,60,000/ year (Cost including a block) and driver)  Rs.228.40 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.			in a year @Rs 40,000/	*
Deployment of Fire-fighting squad  Deployment of Fire-fighting squad  Rs.228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent  Rs. 24.0 lakh  Rs. 24.0 lakh  Rs. 24.0 lakh  Rs. 24.0 lakh  Rs. 145.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10			month @Re 1 60 000/	
Deployment of Fire-fighting squad  Deployment of Fire-fighting squad  Rs.228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  fuel and driver)  Rs.228.40 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Rs. 4.0 lakh  Rs. 145.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10			Vear (Cost in aboding	
Rs.228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  Rs. 228.40 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 4.0 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 4.0 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 4.0 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 4.0 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 4.0 Lakhs has been deposited for procurement as per approved SSWLCP for Gandhamardan-A&B.  Rs. 4.0 Lakhs has been deposited for procurement as per approved SSWLCP for Gandhamardan-A&B.  Rs. 4.0 Lakhs has been deposited for procurement as per approved SSWLCP for Gandhamardan-A&B.  Rs. 4.0 Lakhs has been deposited for procurement as per approved SSWLCP for Gandhamardan-A&B.  Rs. 4.0 Lakhs has been deposited for procurement as per approved SSWLCP for Gandhamardan-A&B.			find and discovering	
Fire-fighting equipment  Rs.5.0 lakh  Rs. 3.60 Lakhs has been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  Rs. 24.0 lakh  Rs. 24.0 lakh  Rs. 145.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10	d	Deployment of Fire-fighting	ruer and driver)	
been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent  Livitic and prevent been deposited towards engagement of persons for protection as per approved SSWLCP for Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Rs. 4.0 lakh  Rs. 4.0 lakh  Rs. 4.15.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10		squad	***	Rs.228.40 Lakhs has
Fire-fighting equipment  Rs.5.0 lakh  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent uncontrolled collection of fruits, flower, leaves etc, and prevent  Life in the second of the protection as per approved SSWLCP for Gandhamardan A.  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Rs. 4.0 lakh  Rs. 24.0 lakh  Clincluding a vehicle with fuel and driver, skilled and un-skilled manpower for 10		-1		been deposited towards
Fire-fighting equipment  Rs.5.0 lakh  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan-A&B.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent  Rs. 5.0 lakh  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Rs. 6.0 lakh  Rs. 44.0 lakh  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10				engagement of persons
Fire-fighting equipment  Rs.5.0 lakh  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  Rs. 5.0 lakh  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Rs. 6.0 lakh  Rs. 4.0 lakh  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10				for protection as per
Fire-fighting equipment  Rs.5.0 lakh  Rs. 3.60 Lakhs has been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  Gandhamardan-A&B.  Rs. 3.60 Lakhs has been deposited for procurement as per approved SSWLCP Gandhamardan A.  Rs. 4.0 lakh  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10				approved SSWLCP for
Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent the state of		Di G		Gandhamardan A & P
been deposited for procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent skilled and un-skilled manpower for 10	2	Fire-fighting equipment	Rs.5.0 lakh	D 2 60
procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  procurement of firefighting equipment as per approved SSWLCP for Gandhamardan A.  Rs. 6.0 lakh  Rs. 24.0 lakh  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10				1 Daking mas
firefighting equipment as per approved SSWLCP for Gandhamardan A.  Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent  Rs. 24.0 lakh  Rs 145.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10				101
Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  Rs. 6.0 lakh  Rs. 24.0 lakh  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10			×.	
Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  SSWLCP for Gandhamardan A.  Rs. 6.0 lakh  Rs. 24.0 lakh  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10		, ,		
Fire blower with maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  Gandhamardan A.  Rs. 6.0 lakh  Rs. 24.0 lakh  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10		ł		Po. approved
Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  Rs. 6.0 lakh  Rs. 24.0 lakh  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10	j		·	
maintenance  Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  Rs. 6.0 lakh  Rs. 24.0 lakh  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10		Fire blower with		Gandhamardan A.
Vehicle with water tanker to prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  Rs. 24.0 lakh  Rs 145.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10		WILL!	Rs.6.0 lakh	_
prevent forest fire  Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  Rs. 24.0 lakh  Rs. 145.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10				
Biodiversity protection squad to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10  Rs 145.0  (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10	- 1	venicle with water tanker to	Rs. 24.0 lakh	
to prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10	$\rightarrow$			1
prevent illicit felling, prevent uncontrolled collection of fruits, flower, leaves etc, and prevent manpower for 10 (Including a vehicle with fuel and driver, skilled and un-skilled manpower for 10			Rs 145.0	
prevent uncontrolled collection of fruits, flower, leaves etc, and prevent with fuel and driver, skilled and un-skilled manpower for 10	į.			-
collection of fruits, flower, leaves etc, and prevent manpower for 10	25 0	prevent uncontrolled	with firel and driver	1
leaves etc, and prevent manpower for 10		collection of fruits. flower	skilled and un altitud	
hairpower for 10	İ			
years)(@14.5 lakhs		, many provent	manpower for 10	
	ĺ	and a section,	years)(@14.5 lakhs	· ·
	1			

5	Alternative livelihood/ Eco-sy:	stem development initiati	ve
ı. T	riomej eer marpa-e	(i) Rs 110000/-	-
1	Ollimiz Grand	(Training to 20	Ì
1	Centre may be requested	members + subsidize	
	provide necessary	equipment) per village	
	accessories, technical	for 30 villages =	
	guidance and marketing	Rs.33.0 lakh	74.
	facilities under some poverty	(ii) Refreshers training	
Ì	eradication programme.	for bee keeping =	ţ
		Rs.0.5 lakh per year for	ţ:
		10 years= <b>Rs. 5.0 lakh</b>	
		(iii)Building at Suakati	1
		for processing,	
		packaging & branding	
		honey = Rs.30.0 lakh	
		(iv)Recurring expenses,	
		unforeseen expenses =	ā
		Rs 15.0 lakh	
		Total=Rs 83.0 lakh	
b	Vegetable and mushroom	Rs 5.0 lakhs	=
	cultivation in collaboration		
	with Horticulture		
***	Department.		
С	Press khali preparation:	Rs 23.0 lakhs (10 lakhs	F
	Financial and technical	cluster godown, 5.0	
	support to be provided to	lakhs for electrification	
	them under the guidance of	and 8.0 lakhs for	
	Small Scale Industries	machineries) x 2	
	Department.	locations= Rs. 46.00	
		lakhs	
d	Poultry: Necessary training	Rs 2.0 lakhs	2 =
let.	and support to be provided		
	by Animal Husbandry		
	Department		
	Incense stick preparation etc		200 1111
e	Vaccination of cattle	Rs.5.0 lakh	Rs 2.0 lakhs was
	September (September 19		deposited for 13240
			cattle population as per
			SSWLCP of
	7		Gandhamardan-B.
6	Monitoring & Evaluation	Rs.5.0 lakh	-
1	Total	Rs. 834.63 lakh	

(Rupees eight crores thirty-four lakh and sixty-three thousand) only

Divisional Forest Officer Keonjhar Division CO

No

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C	OST NORM FOR BALD HILL PL Labour cost (				S PER HE	CTARE
01					Material	Total cost
the second	Item of work		Manday			TOTAL BY VENEZUE ZUZZAROWICZEST
No		period of		cost @	cost per hectare in	per
		execution		Rs		100-00
				213.50	Rs	Rs.
	(oth vz			per day		
Pre	paratory operation (0th Year)	T		407.00	0	407.00
1.	Survey and demarcation	June	2	CONTRACTOR CONTRACTOR	0	
2.	Pitting (1600 pits per ha.)- each pit 45cm <sup>3</sup>		128	27328.00	0	27328.00
3.	Soil and water conservation					
	measures	Sept-Nov	130	27755.00	0	27755.00
	(a) Staggered trench along the					
	contour @ 300 per ha					
	(2.5mx0.5mx0.5m), 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	1				
	trench/ percolation pits and 30		1			
	MD for gully plugging, drainage	1				
	line treatment and half moon					
85	trench)					
	(b) Site clearance-8 MD. Alignment	July-Aug	10	2135.00	0	2135.00
	and staking of contour lines on			The second second second second	~	
	ground, planting pits, contour					
	trenches/ percolation pits and					
	check dam sites etc2 MD				15	
4	Raising of seedlings in poly bags	October-	44	9394.00	2939.00	12333.00
T.	(minimum 60 cm high) @ Rs 9.45	March		207		
	per seedling (Rs 6.67 in 0 <sup>th</sup> year)	- 1 - 1 - 1 - 1				
	Part (1760 saplings to be raised for		1			
	one hectare from January-March @					
	Rs 11739/-					
To	tal 0 <sup>th</sup> year		314	67039.00	2939.00	69978.00
10	Planting	Operation (			2257100	0331000
1	Cost of sapling (balance) from April-		21.5		593.00	5183.25
1	June/July @ Rs 2.78 per seedling for	J. chora 2017	2,			
	1760 seedlings = Rs.4893/-					
2	Freshening of pits-64 MD, filling	June-July	100	23271.50	0	23271.50
12	with fertile soil and farm yard	s and sury	10)	1.50		25271.50
			1			
	manure (FYM)-24 MD, application					
	of insecticide and planting of 60 cm					
	tall saplings including carriage of					
2	plants-21MD	(37) F 2 (14) (32) (33)			0200.00	9200.00
3	Cost of fertile soil 0.25 cft @ Rs 6		0	0	9200.00	9200.00
	per cft/ FYM 0.25 cft @ Rs 15 per					5
	cft per pit		L			

4	Sowing of seeds on dug out earth of	June	6	1281.00	200.00	1481.00
	trench	333				18
5	Carriage-6 MD. Planting including casualty replacement-6 MD, fertilizer application-5 MD, 1 <sup>st</sup> weeding-7 MD, 2 <sup>nd</sup> weeding-5 MD, soil working-7 MD.	July- August	36	7686.00	0	7686.00
6	Cost of fertilizer and insecticide (Granular insecticide @ 5gms/plant @Rs 80/- per kg = Rs 640.00, NPK 100 gms/plant in two doses @ Rs 24 per kg = Rs 3840.00		C	0	4480.00	4480.00
7	Maintenance of Soil and Moisture Conservation measures (20% of cost)	October- December	26	5551.00	0	5551.00
8	Closure to grazing, fire and other biotic interference by engaging watch & ward	April- March	30	6405.00	0	6405.00
9	Fire tracing and control, display board construction, painting/writing, other miscellaneous cost	Jan-Feb	10	2135.00	360.00	2495.00
To	tal (1 <sup>st</sup> year)			50919.75	14833.00	65752.75
	Maintenand	ce Operation	1 (2 <sup>nd</sup> Yo	ar)		
1	Casualty replacement-6 MD including seedling cost @ Rs 9.45 per seedling and its transportation	June-July	10	2135.00	1512.00	3647.00
2	Soil working-7 MD, 1 <sup>st</sup> weeding-6 MD, 2 <sup>nd</sup> weeding-6 MD and fertilizer application-4 MD	August- October	23	4910.50	0	4910.50
3	Cost of fertilizer @ 50 gms NPK per plant @ Rs 24/- per kg for 1600 plants = Rs 1920.00. Insecticide @ 5 gm per plant for 160 nos of plants @ Rs 80 per kg = Rs 64.00		0	.0	1984.00	1984.00
4	Maintenance of Soil and Moisture Conservation measures (20% of cost)	August- October	26	5551.00	0	5551.00
5	Fire tracing and control, and other miscellaneous cost	Feb-March	10	2135.00	0	2135.00
6	Closure to grazing, fire and other biotic interference by engaging watch & ward	April- March	30	6405.00	0	9405.00
	Total 2 <sup>nd</sup> Year			21136.50	3496.00	24632.50
500	Maintenanc					
1.	S.M.C measures (Renovation)	April- March	26	5551.00	0	5551.00
2	Maintenance of plantation	Apr-Mar	14	2989.00	0	2989.00
3	Closure to grazing, fire and other biotic interference by engaging watch & ward	April- March	30	6405.00	0	6405.00
	Total 3 <sup>rd</sup> Year		70	1.40.45.00		14045 00
	IUIAI 3 Year		70	14945.00	0	14945.00

1 S m 2 C b v v T

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Γ	Maintenar	ice Operatio	n (4th Ve			
1	S.M.C measures- 21MD, and	April-	35		0	7472.50
1	maintenance of plantation – 14 MD	March		7-172.50		7472.50
2	Closure to grazing, fire and other	April-	18	3843.00	0	3843.00
	biotic interference by engaging	March	10	30-13.00	U	3043.00
	watch & ward	1 vici on				
-	Total 4th Year		53	11315.50	0	11315.50
		ce Operatio	n (5 <sup>th</sup> V	ar)		11313.30
1	S.M.C measures- 21MD, and	April-	35		0	7472.50
-	maintenance of plantation – 14 MD	March		7-772.50	0	1412.30
2	Closure to grazing, fire and other	April-	18	3843.00	0	3843.00
	biotic interference by engaging	March		3043.00	U	2042.00
	watch & ward	ivital Cit				
	Total 5th Year		53	11315.50	0	11315.50
0.0		ce Operatio			<u> </u>	11313.30
1	S.M.C measures- 21MD, and	April-	35		0	7472.50
	maintenance of plantation – 14 MD	March	33	7472.30	V	7472.30
2	Closure to grazing, fire and other	April-	18	3843.00	0	3843.00
+	biotic interference by engaging	March	10	3843.00	٧	3643.00
	watch & ward	Maich				
	Total 6 <sup>th</sup> Year		52	11215 50		11215 50
		ce Operatio		11315.50	O	11315.50
1	S.M.C measures- 21MD, and	April-	<del>-,</del>	7472.50		7472.50
±	maintenance of plantation – 14 MD	March	33	7472.30	0	7472.50
2	Closure to grazing, fire and other		10	2042.00		2042.00
2	biotic interference by engaging	April- March	18	3843.00	0	3843.00
	watch & ward	March				
	Total 7 <sup>th</sup> Year			11215 50		11215 50
		as Onevetis		11315.50	0	11315.50
1	S.M.C measures- 21MD, and	ce Operatio		ar)		7470.50
1	maintenance of plantation – 14 MD	April-	35	7472.50	0	7472.50
2	Closure to grazing, fire and other		10	2042.00		2042.00
<b>Z</b>	biotic interference by engaging	April-	18	3843.00	. 0	3843.00
	watch & ward	March			100	
ari 10	Total 8 <sup>th</sup> Year			11215.50		1101==0
		1	(oth 3/	11315.50	0	11315.50
1		ce Operatio			<u>.</u>	7.470.50
1	S.M.C measures- 21MD, and	April-	35	7472.50	0	7472.50
2	maintenance of plantation – 14 MD	March	10	2012.00		20.40.00
2	Closure to grazing, fire and other	April-	18	3843.00	0	3843.00
	biotic interference by engaging	March			30	
	watch & ward			11015 50		
	Total 9 <sup>th</sup> Year	1		11315.50	0	11315.50
1	Maintenance 21MD and			ar)		7470 70
1	S.M.C measures- 21MD, and	April-	35	7472.50	0	7472.50
	maintenance of plantation – 14 MD	March		2012.00		
2	Closure to grazing, fire and other	April-	18	3843.00	0	3843.00
	biotic interference by engaging	March				
	watch & ward					Name of the State
	Total 10 <sup>th</sup> Year		53	11315.50	0	11315.50

#### ABSTRACT

Gra	ind Total	1092.5	233248.75	21268.00	254516.7
11	10 <sup>th</sup> year	53	11315.50	0	11315.5
10	9 <sup>th</sup> year	53	11315.50	0	11315.5
9	8 <sup>th</sup> year	53	11315.50	0	11315.5
8	7 <sup>th</sup> year	53	11315.50	0	11315.5
7	6 <sup>th</sup> year	53	11315.50	0	11315.50
6	5 <sup>th</sup> year	53	11315.50	0	11315.50
5	4 <sup>th</sup> year	53	11315.50	0	11315.50
4	3 <sup>rd</sup> year	70	14945.00	0	14945.00
3	2 <sup>nd</sup> year	99	21136.50	3496.00	24632.50
2	1 <sup>st</sup> year	238.5	50919.75	14833.00	65752.7
1	0 <sup>th</sup> year	314	67039.00	2939.00	69978.00
Sl	Year	Mandays	Labour cost (Rs.)	Material cost (Rs.)	Total (Rs.)

Divisional Forest Officer Keonjhar Division

#### Annexure-II

#### LOOSE BOULDER CHECK DAM

5 16

(A) Size 10° x 10° x 5°

(i) Requirement of boulder (Procured from quarry)

2/10" 4") x 10" x 5" = 350 cft or 9.90 cmm

Cost of Boulder @ Rs. 199 - per cum for 9.9 cum - Rs. (.970.00/-

tir) Labour for construction of LBCD for a cum

Mulia

1.04 No. \ 213.50 | 222.04

Mason special

0.17No. s 273 50 4649

Stone packer -

0.35No. v 253 Su 81 52

Total

350.25

For 9.90 cum

9,90 × 350,23

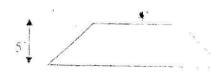
Rs. 3467.47/-

Rs. 5437.47/-

(Rounded to Rs 5438/-)

Rate for Leum Rs. 549.25 per cum or Rs. 550 per cum

#### LOOSE BOULDER CHECK DAM



10

(A) Size- $10^{\circ} \times 10^{\circ} \times 5^{\circ}$ 

(i) Requirement of boulder

Requirement of boulder (Picked up and broken)

15 (10° ± 4°) x 10° x 5° 350 cm or v.90cum

a Rs. 1857- per cum

Rs. 1.831.50/-

(ii) Labour for construction of I (3C1) for Leam

Mulia

1.04 No x 213.50 = 222.04

Mason special

0.17No, x 273.50 = 46.49

Stone packer -

0.35No. x 233.50 - 81.72

Total

350.25

For 9.90 cum

9.90 x 350.25 =

Rs. 3467.47/-

Rs. 5298.97/-

(Rounded to Rs 5300/-)

For 1 cum Rs.535.25/ cum or Rs. 535/- per Cum

N.B. The cost of transportation with a lead of 5 Kms- Rs.156.40/cum.

LNO.	ITEM	REMARKS
********	Loose Boulder Check Dam(LBCD) Constructed from the boulder procured from the quarry	Rs. 550/Cum
2	In- situ collected, broken and utilized for construction of LBCD	Rs 535/Cum
3*	Cost of transportation within a lead of 5 Kms	Rs. 156.40/ Cum

<sup>\*</sup> Rate will be proportionately enhanced for lead more than 5 km in specific cases.

felm?