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# Rungta Mines Limited

MAIN ROAD, BARBIL - 758 035, DIST. - KENDUJHAR, ODISHA, INDIA

Telefax : 06767 - 276651, E-mail : bbloffice@runtamines.com

Ref: RML/BBL/GEO/2024-25/ 178

Date:03.09.2024

To,  
The Divisional Forest Officer,  
Bonai Forest Division,  
Bonai,  
Dist: Sundargarh, Odisha.

Sub: Submission of compliance of conditions stipulated in Stage-I approval letter of MoEF&CC, Govt. of India vide F.No.5-ORC627/2024-BHU dt.25.01.2024 for diversion of 13.077 ha. of forest land for construction of approach road from Jumka-pathiriposhi Pahar Iron Ore Block to existing Koira-Belkudar-Patamunda Road in Bonai Forest Division of M/s. Rungta Mines Ltd. in Sundargarh District, Odisha.

Sir,

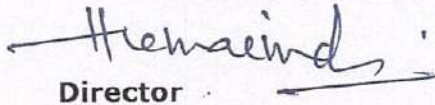
With reference to the subject cited above, we are submitting herewith the compliance report in respect of conditions stipulated in Stage-I approval letter of MoEF&CC, Govt. of India vide F.No.5-ORC627/2024-BHU dt.25.01.2024 for diversion of 13.077 ha. of forest land for construction of approach road from Jumka-pathiriposhi Pahar Iron Ore Block to existing Koira-Belkudar-Patamunda Road in Bonai Forest Division of M/s. Rungta Mines Ltd. in Sundargarh District, Odisha., in Five (5) sets.

We request your good self to kindly take necessary action for Stage-II (Final) forest clearance of our aforesaid project.

An early action in the matter is highly solicited.

Thanking you,

Yours faithfully,  
**For Rungta Mines Ltd.**

  
Director

Encl: As above.

Received  
@Bhishan  
05-9-24



# Rungta Mines Limited

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Telefax : 06767 - 276651, E-mail : bbloffice@rungtamines.com

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**For Rungta Mines Ltd.**

  
**Director**

Encl: As above.



## **APPROACH ROAD**

**PROPOSAL NO : FP/OR/ROAD/154639/2022**

**STATE SERIAL NO: OR-035/2022**

**DATED 07.05.2022**

### **COMPLIANCE TO**

**THE CONDITIONS STIPULATED  
IN STAGE-I APPROVAL LETTER OF  
MINISTRY OF ENVIRONMENT, FOREST &  
CLIMATE CHANGE, (REGIONAL OFFICE),  
BHUBANESWAR, GOVERNMENT OF INDIA,  
VIDE F. NO 5-ORC627/2024-BHU DATED  
25.01.2024**

### **FOR**

**DIVERSION OF 13.077 HA. FOREST LAND  
FOR CONSTRUCTION OF APPROACH  
ROAD FROM JUMKA -PATHIRIPOSHI  
PAHAR IRON ORE BLOCK TO EXISTING  
KOIRA -BELKUDAR-PATAMUNDA ROAD OF  
M/S RUNGTA MINES LIMITED IN KOIRA  
TAHASIL OF BONAI FOREST DIVISION OF  
SUNDARGARH DISTRICT, ODISHA.**

### **SUBMITTED BY**

**M/S. RUNGTA MINES LTD.  
BARBIL, DIST.-KEONJHAR, ODISHA**



Compliance to the Conditions stipulated in Stage-I approval letter of Ministry of Environment, Forest & Climate Change, Integrated Regional Office, Bhubaneswar, vide F. No 5-ORC627/2024-BHU dated 25.01.2024 for diversion of 13.077 Ha of forest land for construction of approach road from Jumka-Pathiriposhi Pahar Iron Ore Block to existing Koira-Belkudar-Patamunda road in Bonai Forest Division of Sundargarh District, Odisha by M/s Rungta Mines Limited.

[Proposal No.- FP/OR/ROAD/154639/2022]

**2.A: Conditions which need to be complied prior to handing over of forest land by the State Forest Department .**

| Sl. No. | Conditions   | Compliance   |
|---------|--|--|
| i)      | The user agency shall transfer online, the Net Present Value (NPV) of 13.077 Ha forest land being diverted under this proposal, as per the Orders of Hon'ble Supreme Court of India dated 28.03.2008, 24.04.2008 and 09.05.2008 in Writ Petition (Civil) No.202/1995 and the guidelines issued by this Ministry vide its letter No. 5-3/2011-FC (Vol-I) dated 06.01.2022 and 19.01.2022. The requisite funds shall be transferred through online portal in CAMPA account of the State concerned. | As per the demand raised by the Divisional Forest Officer, Bonai, vide his letter no.4403/6F(Mg) dated 04.05.2024, the user agency has deposited an amount of Rs.1,87,87,334/- (13.077ha.x Rs.14,36,670/-) towards Net Present Value (NPV) of 13.077 ha. of forest land through RTGS (UTR No.CNRBR52024051480309978) dated 14.05.2024 in State CAMPA fund.<br>Copy of the RTGS slip is enclosed as <b>Annexure-2.</b>  |
| ii)     | The identified non-forest land of 13.319 Ha for raising compensatory afforestation shall be transferred and mutated in the name of Forest Department and notified as RF/PF prior to Stage-II approval.   | The non-forest land over 13.319 Ha identified for compensatory afforestation in village Talabarada under Banspal Tahasil of Keonjhar District has already been mutated and transferred in favour of the Forest Dept. Copy of RoR is enclosed as <b>Annexure-3.</b><br>Regarding the PF notification of the said land over 13.319 ha.,the D.F.O Keonjhar vide his Memo no.6834 ,Dtd.28.08.2024 has sent the draft PF Notification to the PCCF (Nodal) for declaration of PF notification by the Government of Odisha. |
| iii)    | The land identified for the purpose of Compensatory Afforestation shall be clearly depicted on a Survey of India Topo sheet of 1: 50,000 scale.  | The allotted Govt. non-forest land over 13.319Ha. in village Talabarada under Banspal Tehsil identified for compensatory afforestation has been clearly depicted on survey of India (Topo sheet No F45N2) at 1:50,000 scale and the same has been certified by the competent authority.<br>(Copy enclosed as <b>Annexure-4</b> )   |

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| iv) | The State Govt. shall revisit the SSWLCP prepared as per the stage-I/In-principle approval given for diversion of 156.978 ha. of Forest land pertaining to Jumka-Pathiriposhi Pahar Iron Ore Block including the impact area because of road as well as transmission line. | <p>The instant proposal is a linear project associated with Jumka-Pathiriposhi Pahar Iron Ore Block along with 11Kv transmission line from Jaldihi Village to Jumka Pathiriposhi Pahar Iron Ore Block.</p> <p>The composite Site specific Wild life conservation plan in respect of Jumka-Pathiriposhi Pahar Iron Ore Block including the proposals of 11KV transmission line and approach road for ore transportation addressing the long term mitigating strategy plan and monitoring mechanism with respect to wild animals and specially Human-Elephant conflict (HEC) in the region has been approved by the PCCF (Wildlife) and CWLW for a financial outlay of <b>Rs.9,04,44,000/-</b> (Rupees Nine Crore Four lakh Forty Four Thousand only) for implementation of activities in the Zone of influence (ZOI) i.e.(Rs.715.80lakh+Rs.29.04lakh) in <b>Bonai Division</b> and Rs.159.60lakh in <b>Keonjhar Division</b>). The user agency as per the demand received from the DFO, Bonai vide his letter no.4364 dated 03.05.2024 has deposited an amount of Rs.9,04,44,000/- through RTGS (UTR. NO.CNRBR52024050879953412) dated 08.05.2024 in the state CAMPA Fund. Copy of the RTGS slip and the revised approved SSWLCP is enclosed as <b>Annexure-5&amp; 5A.</b></p> |
| v)  | The user agency shall pay for the Regional Wildlife management Plan approved by the State Govt. covering the entire mining belt of Bonai and Keonjhar forest Division as per the prescribed cost norm.   | <p>As per the demand raised by the Divisional Forest Officer, Bonai Forest Division vide his letter no.4403 dated 04.05.2024,the user agency has deposited an amount of <b>Rs.13,65,560/-</b> (Rs. 1,03,100/- x 13.245 Ha.)towards cost of Regional Wildlife Management Plan (RWLMP) through RTGS (UTR No.CNRBR52024051480309978) dated 14.05.2024. Copy of the RTGS slip is enclosed as <b>Annexure-6.</b></p>   |
| vi) | The KML files of the area to be diverted and the CA/Addl. CA areas shall be uploaded on the e-Green  | The KML files of the area to be diverted and the CA/ Addl. CA areas have been uploaded on the e-Green   |





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|       | watch portal with all requisite details before issuing working permission towards linear project or submitting compliance report for seeking Stage-II approval, as the case may be.  | watch portal.   |
| vii)  | The user agency shall transfer the cost of raising and maintaining the compensatory afforestation at the current wage rate in consultation with State Forest Department in the account of CAMPA of the concerned State through online portal. The Scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years. | As per the demand raised by the Divisional Forest Officer, Bonai Forest Division, vide his letter no.4360 dated 03.05.2024, the user agency has deposited an amount of Rs. <b>1,47,07,700/-</b> towards cost of raising and maintaining the compensatory afforestation through RTGS (UTR No-CNRBR52024051480309978) dated 14.05.2024 in State CAMPA fund. The scheme has the provision for anticipated cost increase for 10 years. Copy of the RTGS slip is enclosed as <b>Annexure- 7.</b> |
| viii) | All the funds received from the user agency under the project shall be transferred/deposited in CAMPA account only through e-portal ( <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> ). Amount deposited through other mode will not be accepted as compliance of the Stage-I clearance.  | All the requisite funds have been transferred /deposited in CAMPA fund through e-portal. The details are enclosed as <b>Annexure-8.</b>   |
| ix)   | The compliance report of the Stage-I approval shall be uploaded on e-portal ( <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> ).   | We had uploaded the compliance report of Stage-I approval in Parivesh. nic.in Portal.   |
| x)    | The complete compliance of the FRA, 2006 shall be ensured by way of prescribed certificates from the concerned District Collector.   | The Collector, Sundargarh District has issued the required certificate under Forest Right Act, 2006 in prescribed format (Form-I) for diversion of 13.077 Ha. forest land vide letter no-1324/ITDA(FRA)on dated 04.05.2023. Copy of FRA certificate is enclosed as <b>Annexure-9.</b>   |
| xi)   | The boundary of the proposed forest land for diversion, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates.  | The boundary of the proposed forest land for diversion, has been demarcated on ground by erecting 4 feet high reinforced cement concrete pillars, each pillar has been inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates. Photographs are attached as <b>Annexure-10.</b>   |

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**B: Conditions which need to be strictly complied on field after handing over of forest land to the user agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approval.**

| Sl. No. | Conditions  | Compliance  |
|---------|---|---|
| i)      | Legal status of forest land proposed for diversion shall remain unchanged   | Legal status of the diverted forest land shall remain unchanged.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b>   |
| ii)     | Compensatory afforestation shall be raised over 13.319 ha of non forest land identified in village Talabarada under Banspal Tahasil of Keonjhar District of Keonjhar Forest Division within two years from the date of Stage-II Clearance and maintained thereafter by the State Forest Department, at the cost of user agency.                                   | The PCCF(FD & Nodal Officer , FC Act) Bhubaneswar, vide memo. No.8437 dated 22.04.2024 has technically approved the scheme for Compensatory afforestation over 13.319 ha Non-forest Govt. land identified in village-Talabarada under Banspal Tahasil of Keonjhar district with a maintenance period of 10 years for a total financial outlay of <b>Rs.1,47,07,700/-</b> .<br>Compensatory Afforestation will be taken up in the identified site by the Keonjhar Forest Division.<br>Copy of the approved financial outlay is attached as <b>Annexure-11.</b> |
| iii)    | Additional Compensatory afforestation shall be raised over 4.00 Ha. of degraded forest land identified in Dhenkiam RF of Bonai Forest Division within two year from the date of Stage-II Clearance and maintained thereafter by the State Forest department , at the cost of user agency.   | The PCCF(FD & Nodal Officer , FC Act) Bhubaneswar, vide memo. No.8437 dated 22.04.2024 has technically approved the scheme for Additional Compensatory afforestation over 4.00 ha. of degraded forest land identified in Dhenkiam RF under Tamra Range of Bonai Forest Division of Sundargarh District to accommodate plantation of 1758 nos. of seedlings with a maintenance period of 10 years for a total financial outlay of <b>Rs.16,47,857/-</b> .<br>Copy of the approved financial outlay is attached as <b>Annexure-12.</b>                          |
| iv)     | The species to be planted in the CA/ Additional CA scheme shall be of native species of the area. At least 18 month old seedlings should be planted. Intensive monitoring of the plantation needs to be done and documented using Geo tagging so that the increase of canopy density and survival and growth of plantation can be evaluated at regular intervals. | As per approved schemes it has been proposed to take up AR model@1000 saplings per ha. over 11.319 Ha. with soil moisture conservation measures over 13.319 Ha. for 10 years maintenance along with provision of Angle Iron and Chain Link fencing around the plantation area with a total financial outlay of Rs. <b>1,47,07,700 /-.</b> The indigenous  |

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|     |   | <p>species selected for plantation are:</p> <ol style="list-style-type: none"> <li>1) <i>Sizyzium cumini</i> (Jamu)</li> <li>2) <i>Azadirachta indica</i> (Neem)</li> <li>3) <i>Emblica officinalis</i> (Amla)</li> <li>4) <i>Adina cardifolia</i> (Kuruma)</li> <li>5) <i>Dalbergia sissoo</i> (Sisoo)</li> <li>6) <i>Artocarpus integrifolia</i> (Panasa)</li> <li>7) <i>Anogeissus latifolia</i> ( Dhaura)</li> <li>8) <i>Pongamia pinnata</i> ( Karanja)</li> </ol> <p>, etc.</p> <p>The approved CA scheme will be implemented and maintained by Divisional Forest Office, Keonjhar Forest Division.</p>   |
| v)  | At the time of payment of Net Present Value (NPV) at the then prevailing rate, the user agency shall furnish an undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India. | <p>The user agency will abide by the condition.</p> <p>An undertaking to this effect is enclosed as <b>Annexure-1</b>.</p>  |
| vi) | The State Govt. shall explore possibility for transportation of Iron Ore through alternative other than road as per the recommendation in the CSIR-NEERI report.  | <p>Jumka Pathiriposhi Pahar Iron Ore Block is located in an isolated place and difficult to access. The public Railway sidings are located at far distances in various directions with very high ground level difference. For laying conveyor belts in different direction to connect various railway sidings for effective dispatch of mineral, acquisition of private ST land is not allowed in Odisha under LARR Act, 2013 for a mine or its ancillary activities, Govt. land including forest land, NOC from other lessee through whose lease area the conveyor belt will pass, hilly terrain and lots of other issues are to be resolved which is not possible.</p> <p>Thus, considering the bottlenecks in multi-directional laying of conveyor belts and for a smooth and uninterrupted transport of iron ore from the mines to different Railway sidings/destinations, the user agency has applied the Forest diversion proposal over an area of 13.077 ha. (virgin forest land) outside the mining lease.</p> <p>The details are attached as <b>Annexure-13</b>.</p> |

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| vii)  | Soil and moisture conservation measures shall be undertaken on both sides of the proposed forest land vulnerable to soil erosion at the project cost.   | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b> |
| viii) | The user agency shall take up Avenue Plantation on either side of the alignment of the road at the project cost in consultation with the DFO. In this regard State Govt. shall adhere to the Ministry's letter No.7-12/2022-ROHQ dated 01.09.2022.                                    | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b> |
| ix)   | The user agency shall explore the possibility of successful transplantation of maximum number of trees identified to be felled and shall ensure that any tree felling shall be done only when it is unavoidable and that too under strict supervision of the State Forest Department. | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b> |
| x)    | The user agency shall use fly ash for the road construction and for filling up void created due to soil borrows which will be followed by compaction and spreading of top soil over it as per Fly Ash Notification No.S.O.254(E) dated 25.01.2016.                                    | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b> |
| xi)   | The reclamation of quarry should be done under the supervision of the State Forest Department. The quarry shall be reclaimed and afforested completely before the project is closed.  | Not applicable ,as it is a linear project.  |
| xii)  | Overburden shall not be dumped outside the width of the road. The muck generated in the earth cuttings will be disposed of at the designed dumping sites and in no case the muck /debris will be allowed to roll down the hill slopes.  | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b> |
| xiii) | The user agency will provide retaining wall, breast walls and drainage as per requirement to make the slope stable.   | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b> |
| xiv)  | Wherever possible and technically feasible, the user agency shall undertake afforestation measures along the roads within the area diverted under this approval, in consultation with the State Forest Department at the project cost.  | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b> |

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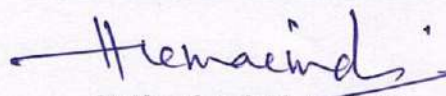
|               |  |   |
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| <b>xv)</b>    | The user agency shall submit an undertaking to ensure that flanks of roads should be filled by transported soil and not with soil Dug from the side of the roads.  | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1</b> .  |
| <b>xvi)</b>   | The designing of new culverts/bridges and redesigning the existing ones over the natural streams/ rivers/canals should be done in such a manner that it does not hamper the natural course of water, does not hamper movement of wild animals including fishes and amphibians migration. | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1</b> .  |
| <b>xvii)</b>  | Speed regulating signage will be erected along the road at regular intervals in the protected areas/Forest areas.  | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1</b> .  |
| <b>xviii)</b> | The user agency shall obtain Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if applicable.   | As per EIA Notification dated 14.09.2006 ,Environmental Clearance is not required for linear projects.  |
| <b>xix)</b>   | No labour camp shall be established on the forest land and the user agency shall provide fuels preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas.  | No labour camp will be established on the forest land. The user agency will provide fuels to the labourers and the staff working at the site.<br>An undertaking to this effect is enclosed as <b>Annexure-1</b> . |
| <b>xx)</b>    | No additional or new path will be constructed inside the forest area for any activity related to the project work.   | No additional or new path will be constructed inside the forest area for any activity related to the project work.<br>An undertaking to this effect is enclosed as <b>Annexure-1</b> .                            |
| <b>xxi)</b>   | The user agency while executing works, shall not fell any tree or damage forest growth in the surrounding forest area in any manner.   | While executing works the user agency will not fell any tree or damage forest growth in the surrounding forest area in any manner.<br>An undertaking to this effect is enclosed as <b>Annexure-1</b> .            |
| <b>xxii)</b>  | The layout plan of the proposed forest land shall not be changed without the prior approval of Ministry of Environment, Forest & Climate Change.   | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1</b> .  |
| <b>xxiii)</b> | The forest land shall not be used for any purpose other than that specified in the proposal.   | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1</b> .  |
| <b>xxiv)</b>  | The forest land proposed to be diverted shall under no circumstance be   | The user agency will abide by the condition.  |

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|                | transferred to any other user agency, department or person without the prior approval of Ministry of Environment, Forest & Climate Change.  | An undertaking to this effect is enclosed as <b>Annexure-1.</b>   |
| <b>xxv)</b>    | No damage to the flora and fauna of the adjoining area shall be caused.   | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b>                         |
| <b>xxvi)</b>   | The concerned Divisional Forest Officer, will monitor and take necessary mitigative measures to ensure that there is no adverse impact on the forests in the surrounding area.  | The user agency will co-ordinate with Divisional Forest Officer of Bonai Forest Division as and when required for necessary compliance. |
| <b>xxvii)</b>  | The user agency shall submit annual self monitoring report on compliance of stipulated conditions to the Nodal Officer (FCA) of the State and concerned Integrated Regional Office of this Ministry by the end of March every year.   | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b>                         |
| <b>xxviii)</b> | Any other conditions that the Ministry of Environment, Forests & Climate Change may impose from time to time in the interest of afforestation, conservation and management of flora and fauna in the area ,shall be complied by the user agency.  | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b>                         |
| <b>xxix)</b>   | The State Govt. and user agency shall ensure compliance to provisions of the all Acts, Rules, Regulations, Guidelines, NGT Order (s) & Hon'ble Court Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project.   | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b>                         |
| <b>xxx)</b>    | Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in Para 1.16 of Consolidated Guidelines and Clarification issued under Van (Sanrakshan Evam Samvardhan) Adhiniyam,1980 and Van( Sanrakshan Evam Samvardhan )Rules ,2023 vide Ministry's letter dated 29.12.2023. | The user agency will abide by the condition.<br>An undertaking to this effect is enclosed as <b>Annexure-1.</b>                         |

**For Rungta Mines Limited**

  
**Authorised Signatory**





# Rungta Mines Limited

MAIN ROAD, BARBIL - 758 035, DIST. - KENDUJHAR, ODISHA, INDIA  
Telefax : 06767 - 276651, E-mail : bbloffice@runtamines.com

ANNEXURE- 1

## UNDERTAKING

### Condition No.2:A (ix)

We do hereby undertake that the stage-I compliance report will be uploaded on e-portal (<https://parivesh.nic.in>) of MoEF & CC, Govt. of India.

### Condition No.2:B (i)

We do hereby undertake that the legal status of the diverted forest land shall remain unchanged.

### Condition No.2:B (v)

We do hereby undertake to pay the additional amount of the NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India.

### Condition No.2:B (vii)

We will implement the Soil and moisture conservation measures on both sides of the proposed forest land vulnerable to soil erosion at the project cost.

### Condition No.2:B (viii)

We do hereby undertake to take up Avenue Plantation on either side of the alignment of the road at the project cost in consultation with the Divisional forest officer, Bonai.

### Condition No.2:B (ix)

We do hereby undertake to explore the possibility of successful transplantation of maximum number of trees identified to be felled and shall ensure that any tree felling shall be done only when it is unavoidable and that too under strict supervision of the State Forest Department.

### Condition No.2:B (x)

We do hereby undertake to use fly ash for the road construction and for filling up void created due to soil borrows which will be followed by compaction and spreading of top soil over it as per Fly Ash Notification No.S.O.254(E) dated 25.01.2016.

For Rungta Mines Limited

  
Director





# Rungta Mines Limited

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ANNEXURE- 1

## UNDERTAKING

### Condition No.2:B (xii)

We do hereby undertake that overburden shall not be dumped outside the width of the road. The muck generated in the earth cuttings will be disposed of at the designed dumping sites and in no case the muck/debris will be allowed to roll down the hill slopes.

### Condition No.2:B (xiii)

We do hereby undertake to provide retaining wall, breast walls and drainage as per requirement to make the slope stable.

### Condition No.2:B (xiv)

We do hereby under take that wherever possible and technically feasible, the user agency shall undertake afforestation measures along the roads within the area diverted under this approval, in consultation with the State Forest Department at the project cost.

### Condition No.2:B (xv)

We do hereby undertake that flanks of roads will be filled by transported soil and not with soil Dug from the side of the roads.

### Condition No.2:B (xvi)

We do hereby undertake that the designing of new culverts/bridges and redesigning the existing ones over the natural streams/ rivers/canals would be done in such a manner that it will not hamper the natural course of water and also will not give rise to water logging so that, movement of wild animals including fishes and amphibians migration is not hampered.

For Rungta Mines Limited

  
Director





# Rungta Mines Limited

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Telefax : 06767 - 276651, E-mail : bbloffice@runtamines.com

ANNEXURE- 1

## UNDERTAKING

### Condition No.2:B (xvii)

We do hereby undertake that speed regulating signage will be erected along the road at regular intervals in the protected areas/Forest areas.

### Condition No.2:B (xix)

We do hereby undertake that no labour camp will be established on the forest land and the user agency will provide fuels preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas.

### Condition No.2:B (xx)

We do hereby undertake that no additional or new path will be constructed inside the forest area for any activity related to the project work.

### Condition No.2:B (xxi)

We do hereby undertake that the user agency while executing works, will not fell any tree or damage forest growth in the surrounding forest area in any manner.

### Condition No.2:B (xxii)

We do hereby undertake that the layout plan of the proposed forest land will not be changed without the prior approval of Ministry of Environment, Forest & Climate Change.

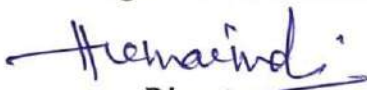
### Condition No.2:B (xxiii)

We do hereby undertake that the forest land will not be used for any purpose other than that specified in the proposal.

### Condition No.2:B (xxiv)

We do hereby undertake that the forest land proposed to be diverted will under no circumstances be transferred to any other user agency, department or person without the prior approval of Ministry of Environment, Forest & Climate Change.

For Rungta Mines Limited

  
Director





# Rungta Mines Limited

MAIN ROAD, BARBIL - 758 035, DIST. - KENDUJHAR, ODISHA, INDIA  
Telefax : 06767 - 276651, E-mail : bbloffice@runtamines.com

ANNEXURE- 1

## UNDERTAKING

### Condition No.2:B (xxv)

We do hereby undertake that no damage to the flora and fauna of the adjoining area shall be caused by the User Agency.

### Condition No.2:B (xxvii)

We do hereby undertake to submit annual self-monitoring report on compliance of stipulated conditions to the Nodal Officer (FCA) of the State and concerned Integrated Regional Office of this Ministry by the end of March every year.

### Condition No.2:B (xxviii)

We do hereby undertake that any other conditions that the Ministry of Environment, Forests & Climate Change may impose from time to time in the interest of afforestation, conservation and management of flora and fauna in the area, will be complied by the User Agency.

### Condition No.2:B (xxix)

We do hereby undertake to comply all the provisions of all the Acts, Rules, Regulations, Guidelines NGT order (s) , and Hon'ble Court Order(s) pertaining to this Project, if any, for the time being in force, as would be applicable to the project.

### Condition No.2:B (xxi)

We do hereby undertake that, we shall ensure compliance of Forest (Conservation) Act, 1980 and in Para 1.16 of Consolidated Guidelines and Clarification issued under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and Van (Sanrakshan Evam Samvardhan) Rules, 2023 vide Ministry's letter dated 29.12.2023.

For Rungta Mines Limited

  
Director



A/c No - 0247257007043  
IFSC Code - CNRB0000247

ANNEXURE-2

5/14/24, 11:48 AM

NEFT RTGS CHALLAN

AGENCY COPY

यूनियन बैंक Union Bank OF INDIA

NEFT / RTGS CHALLAN for CAMPA Funds  
Date : 14-05-2024

|                  |  |
|------------------|--|
| Agency Name.     | RUNGTA MINES LTD   |
| Application No.  | 61154639990  |
| MoEF/SG File No. | 5-ORC627/2024-BHU  |
| Location.        | ORRISA   |
| Address.         | Rungta Office, Main Road,<br>At/PO: Barbil,<br>Odisha/Keonjhar |
| Amount(in Rs)    | 36508494/-   |

Amount in Words: Three Crore Sixty-Five Lakh Eight Thousand Four Hundred and Ninety-Four Rupees Only

NEFT/RTGS to be made as per following details;

|                      |  |
|----------------------|--|
| Beneficiary Name:    | ORRISA CAMPA   |
| IFSC Code:           | UBIN0996335  |
| Pay to Account No.   | 1508261154639990<br>Valid only for this challan amount.  |
| Bank Name & Address: | Union Bank Of India<br>FCS Centre, 21/1, III Floor,<br>Jelitta Towers, Mission<br>Road, Bengaluru-560027 |

This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY

यूनियन बैंक Union Bank OF INDIA

NEFT / RTGS CHALLAN for CAMPA Funds  
Date : 14-05-2024

|                  |  |
|------------------|--|
| Agency Name.     | RUNGTA MINES LTD   |
| Application No.  | 61154639990  |
| MoEF/SG File No. | 5-ORC627/2024-BHU  |
| Location.        | ORRISA   |
| Address:         | Rungta Office, Main Road,<br>At/PO: Barbil, Odisha<br>Keonjhar |
| Amount(in Rs)    | 36508494/-   |

Amount in Words: Three Crore Sixty-Five Lakh Eight Thousand Four Hundred and Ninety-Four Rupees Only

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| Bank Name & Address: | Union Bank Of India<br>FCS Centre, 21/1, III Floor,<br>Jelitta Towers, Mission<br>Road, Bengaluru-560027 |

This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank, epurse@unionbankofindia.bank, ubin0903710@unionbankofindia.bank

Print

Back

Approach Road Demand Details

- ① CA = Rs 1,47,07,700/-
- ② ACA = Rs 16,47,900/-
- ③ NPV = Rs 1,87,87,334/-
- ④ Rwp = Rs 13,65,560/-
- Total Rs = 3,65,08,494/-

CNRBR52024051480309978

RUNGTA MINES LIMITED

(Authorized Signatory)

(Authorized Signatory)





Schedule I Form No.39-A

ଖତିୟାନ

ANNEXURE- 3

ମୌଜା : ଚକବରଡ଼ା

ତହସିଲ : ବାଂଶପାଳ

ଥାନା : ନୟାଗୋଟ

ତହସିଲ ନମ୍ବର : 05

ଥାନା ନମ୍ବର : 5

ଚିତ୍ରା : କେନ୍ଦୁଝର

ଖତିୟାନର କ୍ରମିକ ନଂ : 24/1

|  |   |
|--|---|
| ଜମିଦାରଙ୍କ ନାମ ଓ ଖେତ୍ତାଟ<br>ବା ଖତିୟାନର କ୍ରମିକ ନମ୍ବର | ଓଡ଼ିଶା ସରକାର ପ୍ରଥମ ଭାଗ ଖେତ୍ତାଟ ନମ୍ବର 1                    |
| ୧) ଖତିୟାନର କ୍ରମିକ ନଂ                               | 24/1  |
| ୨) ପ୍ରକାର ନାମ, ପିତାଙ୍କ<br>ନାମ, ଜାତି ଓ ବାସସ୍ଥାନ     | ରାଜ୍ୟ ଜଙ୍ଗଲ, ପରିବେଶ ଏବଂ ଜଳବାୟୁ ପରିବର୍ତ୍ତନ ବିଭାଗ, ଓଡ଼ିଶା । |

୩) ସ୍ୱତ୍ୱ

| ୪) ବେଢ଼ା | ଜମିଦାର | ଖତିୟାନ | ସେସ  | ନିସ୍ତାର ସେସ<br>ଓ ଅନ୍ୟାନ୍ୟ<br>ସେସ ଯଦି<br>କିଛି ଥାଏ | ମୋଟ  | ୫) କ୍ରମବର୍ଦ୍ଧନଶୀଳ ଖତିୟାନ ବିବରଣୀ |
|----------|--------|--------|------|--|------|---------------------------------|
|          |        | 0.00   | 0.00 | 0.00   | 0.00 |                                 |

୬) ବିଶେଷ ଅନୁବନ୍ଧ  
ଦି କିଛି ଥାଏ

Alienation Case No. 17/2023 (ଦା.ଖା କେଶ ନଂ 2195/2023) ହୁ.ମୁ ପୁଟ ନଂ 10/129 ରକବା ହେ 0.8660, ପୁଟ ନଂ 11/130 ରକବା ହେ 7.6270, ପୁଟ ନଂ 12/131 ରକବା ହେ 13.2790, ପୁଟ ନଂ 13/132 ରକବା ହେ 1.8300, ପୁଟ ନଂ 36/133 ରକବା ହେ 13.7080, ପୁଟ ନଂ 40/134 ରକବା ହେ 4.2440, ପୁଟ ନଂ 41/135 ରକବା ହେ 5.3720, ପୁଟ ନଂ 42/136 ରକବା ହେ 4.4810, ପୁଟ ନଂ 43/137 ରକବା ହେ 14.6620, ପୁଟ ନଂ 45/138 ରକବା ହେ 6.5120, ପୁଟ ନଂ 68/139 ରକବା ହେ 11.0210 ଖା.ଖା. 24 ରୁ । Alienation Case No. 5/2024 (ଦା.ଖା କେଶ ନଂ 65/2024) ହୁ.ମୁ ପୁଟ ନଂ 7/140 ରକବା ହେ 3.3860, ପୁଟ ନଂ 9/141 ରକବା ହେ 1.6140 ଖା.ଖା. 24 ରୁ । Alienation Case No. 06/2024 (ଦା.ଖା କେଶ ନଂ 117/2024) ଓ ଜିଲ୍ଲାପାଳ, କେନ୍ଦୁଝରଙ୍କ ଆଦେଶ ସଂଖ୍ୟା 1453/Rev.Dt. 02.08.2024 ହୁ.ମୁ ପୁଟ ନଂ 2/142 ରକବା ହେ 0.0280, ପୁଟ ନଂ 7/143 ରକବା ହେ 5.4530, ପୁଟ ନଂ 8/144 ରକବା ହେ 0.5540, ପୁଟ ନଂ 9/145 ରକବା ହେ 5.5920, ପୁଟ ନଂ 14/146 ରକବା ହେ 1.6920 ଖା.ଖା. 24 ରୁ ।

BLANK SPACE FOR STAMPING

ଅତିରିକ୍ତ ପ୍ରକାଶନ ତାରିଖ : 17/09/1980

ଖତିୟାନ ଧାର୍ଯ୍ୟ ତାରିଖ :



23/09/2024  
ADDL. TAHASILDAR  
BANSPAL



| ଖରିଦାହାର କ୍ରମିକ ନଂ : 24/1 |                  | ମୌଜା : ଚଳବରଡ଼ା                 |        | ଜିଲ୍ଲା : କେନ୍ଦୁଝର |          |   |
|---------------------------|------------------|--------------------------------|--------|-------------------|----------|---|
| ପୁର ନମ୍ବର ଓ ଉତ୍ତର ନାମ     | କିସମ ଓ ପୁରର ଖଜଣା | କିସମର ବିସ୍ତାରିତ ବିବରଣୀ ଓ ଚୌହଦି | ରାଜସ୍ୱ |                   |          | ମାତ୍ରା  |
|                           |                  |                                | ଏକର    | ଡି                | ହେକ୍ଟର   |   |
| ୭                         | ୮                | ୯                              | ୧୦     | ୧୧                | ୧୨       |   |
| 10/129                    | ପର୍ବତ ଏକ         |                                | 2      | 1399              | 0.8660   |   |
| 11/130                    | ପର୍ବତ ଏକ         |                                | 18     | 846               | 7.6270   |   |
| 12/131                    | ପର୍ବତ ଏକ         |                                | 32     | 813               | 13.2790  |   |
| 13/132                    | ପର୍ବତ ଏକ         |                                | 4      | 522               | 1.8300   |   |
| 36/133                    | ପର୍ବତ ଏକ         |                                | 33     | 873               | 13.7080  |   |
| 40/134                    | ପର୍ବତ ଏକ         |                                | 10     | 487               | 4.2440   |   |
| 41/135                    | ପର୍ବତ ଏକ         |                                | 13     | 274               | 5.3720   |   |
| 42/136                    | ପର୍ବତ ଏକ         |                                | 11     | 072               | 4.4810   |   |
| 43/137                    | ପର୍ବତ ଏକ         |                                | 36     | 230               | 14.6620  |   |
| 45/138                    | ପର୍ବତ ଏକ         |                                | 16     | 091               | 6.5120   |   |
| 68/139                    | ପର୍ବତ ଏକ         |                                | 27     | 233               | 11.0210  |   |
| 7/140                     | ପର୍ବତ ଏକ         |                                | 8      | 367               | 3.3860   |   |
| 9/141                     | ପର୍ବତ ଏକ         |                                | 3      | 9883              | 1.6140   |   |
| 2/142                     | ପର୍ବତ ଏକ         |                                | 0      | 0692              | 0.0280   |   |
| 7/143                     | ପର୍ବତ ଏକ         |                                | 13     | 474               | 5.4530   |   |
| 8/144                     | ପର୍ବତ ଏକ         |                                | 1      | 369               | 0.5540   |   |
| 9/145                     | ପର୍ବତ ଏକ         |                                | 13     | 818               | 5.5920   |   |
| 14/146                    | ପର୍ବତ ଏକ         |                                | 4      | 181               | 1.6920   |   |
| 18 ପୂର୍ବ                  |                  |                                | 251    | 8474              | 101.9210 |   |
|                           |                  |                                |        |                   |          | <div>23/08/20</div> <div>ADDL. TAHASILDAR<br/>BANSPAL</div> |

23/08/20  
ADDL. TAHASILDAR  
BANSAL

ଆସ୍ଥାୟୀ ସୂଚନା ବିଜ୍ଞାନ କେନ୍ଦ୍ର, ଓଡ଼ିଶା

ପ୍ରମୁଖ ମାମୁଳା (ସମ୍ପର୍କ)

23/08/2



## AGENCY COPY

यूनियन बैंक Union Bank of India



## NEFT / RTGS CHALLAN for CAMPA Funds

Date : 08-05-2024

|                  |   |
|------------------|---|
| Agency Name.     | RUNGTA MINES LTD  |
| Application No.  | 58150048639   |
| MoEF/SG File No. | 8-08/2023-FC  |
| Location.        | ORRISA  |
| Address.         | Rungta Office, Main Road,<br>At/PO: Barbil,<br>OdishaKeonjhar |
| Amount(in Rs)    | 90444000/-  |

Amount in Words :Nine Crore Four Lakh Forty-Four Thousand Rupees Only

NEFT/RTGS to be made as per following details;

|                      |  |
|----------------------|--|
| Beneficiary Name:    | ORRISA CAMPA   |
| IFSC Code:           | UBIN0996335  |
| Pay to Account No.   | 1508258150048639<br>Valid only for this<br>challan amount.   |
| Bank Name & Address: | Union Bank Of India<br>FCS Centre, 21/1, III Floor,<br>Jelitta Towers, Mission<br>Road, Bengaluru-560027 |

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

## BANK COPY

यूनियन बैंक Union Bank of India



## NEFT / RTGS CHALLAN for CAMPA Funds

Date : 08-05-2024

|                  |  |
|------------------|--|
| Agency Name.     | RUNGTA MINES LTD   |
| Application No.  | 58150048639  |
| MoEF/SG File No. | 8-08/2023-FC   |
| Location.        | ORRISA   |
| Address:         | Rungta Office, Main Road,<br>At/PO: Barbil, Odisha<br>Keonjhar |
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**Note:**After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank , epurse@unionbankofindia.bank, ubin0903710@unionbankofindia.bank

RUNGTA MINES LIMITED

*(Signature)* *(Signature)*  
(Authorised Signatory) (Authorised Signatory)

UTR - CNRBRS2024050879953412







### STATE WILDLIFE HEADQUARTERS

OFFICE OF THE PRINCIPAL CCF (WILDLIFE) & CHIEF WILDLIFE WARDEN, ODISHA  
PRAKRUTI BHAWAN, PLOT NO.1459, SAHEED NAGAR, BHUBANESWAR- 751007

Website: [www.wildlife.odisha.gov.in](http://www.wildlife.odisha.gov.in), Email: [odishawildlife@gmail.com](mailto:odishawildlife@gmail.com)

Memo No. 4707 /CWLW-FDWC-MISC-0027-2023

Dated, Bhubaneswar, the 25 April 2024

To

The Regional Chief Conservator of Forests  
Rourkela Circle, Rourkela

- Sub:**
- 1. Proposal for seeking prior approval under Section 2 (ii) of the Forest (Conservation) Act, 1980 in favour of M/s Rungta Mines Ltd. for non-forestry use of 156.978 ha of forest land (147.803 ha in Bonai Forest Division & 9.175 ha in Keonjhar Forest Division) for Iron Ore Mining and ancillary activities within Jumka Pathiriposhi Pahar Iron Ore Block under Bonai and Keonjhar Forest Division of Sundargarh & Keonjhar District, Odisha – (Online Proposal No.FP/OR/MIN/150048/2021) reg.**
  - 2. Diversion of 3.104 ha of forest land of construction of 11 KV over head Transmission line from Jaldihi village of Jumka-Pathiriposhi Pahar Iron Block of M/s Rungta Mines Ltd. in Sundargarh District, Odisha.**
  - 3. Diversion of 13.077 ha of forest land for construction of approach road from Jumka-Pathiriposi Pahar Iron Ore Block of M/s Rungta Mines Ltd. to existing Koira-Belkudar Patamunda Road in Sundargarh District, Odisha.**

- Ref:**
- (i) This office Memo. No.4752 dated 15<sup>th</sup> April, 2023
  - (ii) Your office Memo. No.1374 dated 27<sup>th</sup> March 2024

With reference to the above cited correspondences on the captioned subject, I am directed to convey approval of the Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Odisha of the revisited Site Specific Wildlife Conservation Plan as detailed below:

- (1) The Site Specific Wildlife Conservation Plan in respect of diversion of 156.978 ha of forest land has been approved and communicated to you vide this office Memo. No.4752



dated 15<sup>th</sup> April 2023 with financial outlay of ₹875.40 lakh (Bonai Forest Division – ₹715.80 lakh and Keonjhar Forest Division – ₹159.60 lakhs), besides, activities to be carried out by the Project Proponent (**Annexure-I**).

(2) Additional approved interventions to be carried out by the project proponent and DFOs, Bonai and Keonjhar Forest Divisions after revisiting of the aforesaid Plan as per the stipulated condition of the diversion proposals mentioned at Sl. No.2 & 3 on the captioned subject along with financial outlay of ₹29.04 lakh in Bonai Forest Division is at **Annexure-II**.

(3) Thus, the revised financial outlay of the Plan is ₹904.44 lakh (Bonai Forest Division – ₹744.84 lakh and Keonjhar Forest Division – ₹159.60 lakhs).

(4) The Project Proponent may please be informed to deposit the additional amount of ₹29.04 lakh in the State CAMPA fund only through e-portal (<https://parivesh.nic.in>) for implementation of various activities within the project impact area by the Forest Department through concerned DFO.

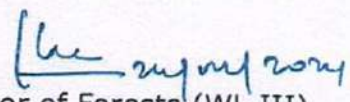
(5) Activities in the project area as per Chapter-4 & 5 of the Plan already approved (Annexure-I & Annexure-II) will be executed by the project proponent under the guidance of DFO, Bonai and Keonjhar Forest Divisions.

(6) The Plan period is five years and will be revisited by concerned DFOs at least one year before expiry of its implementation. The User Agency will bear the cost of such Plan on its approval. Further, the User Agency will bear



additional cost, if any, towards enhancement of wage rate and escalation of price of materials at the time of implementation of this Plan. In case of any deviation, it will be dealt as per law for violations of Forest (Conservation) Act 1980, Environment (Protection) Act 1986 and Wildlife (Protection) Act 1972.

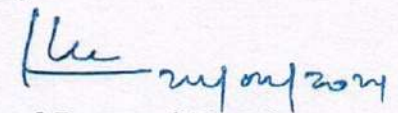
Encl: As above.

  
Chief Conservator of Forests (WL-III)

Memo. No. 4708 /Dt. 25 April 2024

Copy forwarded for information & necessary action to the: -

1. OSD-cum-Special Secretary to Government of Odisha, forest, Environment & Climate Change Department, Bhubaneswar with reference to this office Memo No.4752 dated 15<sup>th</sup> April 2023.
2. Principal CCF (FD&NO, FC Act), Aranya Bhawan, Bhubaneswar.
3. Deputy Conservator of Forests (CAMPA), O/o PCCF (WL) & CWLW, Odisha, Bhubaneswar along with enclosures (**Annexure-I & II**).
4. Divisional Forest Officers, Bonai Forest Division/ Keonjhar Forest Division along with enclosures (**Annexure-I & II**).
5. Director, M/s Rungta Mines Ltd. At/ Po: Barbil, Keonjhar – 758035, Odisha along with enclosures (**Annexure-I & II**).

  
Chief Conservator of Forests (WL-III)





Annexure-1

(89)

**OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS (WILDLIFE)  
& CHIEF WILDLIFE WARDEN, ODISHA**

**Government of Odisha, Forest, Environment & Climate Change Department**

PRAKRUTI BHAWAN, PLOT NO.1459, SAHEED NAGAR, BHUBANESWAR- 751007

Phone: 0674-2602250, Website: [www.wildlife.odisha.gov.in](http://www.wildlife.odisha.gov.in), Email: [odishawildlife@gmail.com](mailto:odishawildlife@gmail.com)

No. 475 / CWLW-FDWC-FD-0055-2022  
Bhubaneswar, Dated the 15 April, 2023

To

M/s Rungta Mines Ltd.  
At/PO- Barbil  
Dist.- Keonjhar

Sub: Proposal for diversion of 156.978 ha of forest land (147.803 ha in Bonai Forest Division & 9.175 ha in Keonjhar Forest Division) in respect of Jumka Pathiriposhi Pahar Iron Ore Block of M/s Rungta Mines Ltd. of Bonai Forest Division & Keonjhar forest Division under Sundargarh & Keonjhar District - Approval of Site Specific Wildlife Conservation Plan

Sir,

I am directed to convey the approval of PCCF (WL) & CWLW, Odisha for the Site Specific Wildlife Conservation Plan at financial outlay of ₹875.40 lakh (Rupees eight crore seventy-five lakh forty thousand) only as per the details of activities mentioned in Chapter-4 and 5 of the Plan in compliance to the ToR under Environmental Clearance and conditional recommendation by State Government under Forest Clearance.

|        |   |              |
|--------|---|--------------|
| (a)    | In project impact area in Bonai Division    | ₹715.80 lakh |
| (b)    | In project impact area in Keonjhar Division | ₹159.60 lakh |
| Total: |   | ₹875.40 lakh |

A sum of ₹875.40 lakh (Rupees eight crore seventy-five lakh forty thousand) only shall be deposited in State CAMPA fund only through e-portal (<https://parivesh.nic.in>) for implementation of various activities within the project impact area by the Forest Department through concerned DFOs.

2. Activities in the project area as per Chapter-4 & 5 of the Plan will be executed by the project proponent under the guidance of DFO, Bonai Division.

3. The Plan period is five years and will be revisited by concerned DFOs at least one year before expiry of its implementation. The User Agency will bear the cost of such Plan on its approval. Further, the User Agency will bear additional cost, if any, towards enhancement of wage rate and escalation of price of materials at the time of implementation of this Plan. In case of any deviation, it will be dealt as per law for violations of Forest (Conservation) Act 1980, Environment (Protection) Act 1986 and Wildlife (Protection) Act 1972.

Encl: Copy of approved SSWLCP

Yours faithfully

Conservator of Forests (ET)

P.T.O.





188 ✓  
Memo No. 6752 /dt 15/04/2023

Copy forwarded for information and necessary action to the -

1. OSD-cum-Special Secretary to Government of Odisha, FE&CC Department, Bhubaneswar with reference to Memo No.4134/FE&CC dt 03.03.2023
2. PCCF (FD & NO, FC Act), O/o PCCF & HoFF, Odisha, Bhubaneswar
3. Regional Chief Conservator of Forests, Rourkela Circle alongwith copy of the approved SSWLCP with reference to his office Memo No.637 dt 23.02.2023 and Memo No.1039 dt 28.03.2023
4. Divisional Forest Officer, Bonai/ Keonjhar Division alongwith copy of the approved SSWLCP

(Signature) 15/04/2023  
Conservator of Forests (ET)



**Annexure – II**

**Interventions to be implemented by the Project Proponent in consultation with concerned DFOs**

(For construction of approach road for Jhumka-Pathiriposhi Pahar Iron Ore Block and 11kv over head transmission line from Jaldihi village to Jhumka-Pathiriposhi Pahar Iron Ore Block)

| Sl. No. | Management Interventions  | Area in ha./Unit in No./ RKM | Remarks                           |
|---------|---|------------------------------|-----------------------------------|
| 1       | Provision of reptile underpass at appropriate locations in the proposed road  | 10 Nos.                      | Bonai & Keonjhar Forest Divisions |
| 2       | Provision of safe elephant passes at the appropriate location   | 04 Nos.                      |                                   |
| 3       | Promotion of awareness regarding protection as well as safe passage of wildlife through digital signage on both side of road and along transmission line and barricades to control the traffic as well as movement of vehicles.           | 10 Nos.                      |                                   |
| 4       | The user agency will ensure use of insulated conductors in the Transmission line passing through the entire stretch of the same to prevent illegal hooking causing death of wild animal.  | Entire length                |                                   |
| 5       | Provision of anti-climbing device and barricading in and around all the towers and poles in the transmission line.  | All towers and Poles         |                                   |
| 6       | Provision of Bird deflectors/marker to increase the vision of birds to avoid bird collision in the portions of the span of the all the towers/poles   | All towers and Poles         |                                   |
| 7       | Provision of Distance protection system and regular cleaning of the under growth in the RoW of the transmission line under supervision of Forest staff.   | Entire length                |                                   |
| 8       | An Integrated Unit (Office cum-residential Building) for Rapid Response Team (RRT), WTI Veterinary Unit, Wildlife Biologist and Sociologist, MTS of RRT Team, Strong Room for Ammunition & equipments at Division Head Quarter, Keonjhar. |                              | Keonjhar Forest Division          |

Approved

  
PCCF (WL) & CWLW, Odisha



**Interventions in Zone of Influence to be implemented by  
Bonai Forest Division**

| Sl. No.  | Management Interventions   | Area in ha./Unit in No./ RKM | Unit cost (Rs. in Lakh) | Total Amount (Rs. in Lakh) |
|----------|--|------------------------------|-------------------------|----------------------------|
| <b>1</b> | <b>Wildlife Habitat Management</b>   |                              |                         |                            |
|          | Eradication of invasive weeds  | 20 ha.                       | 0.11                    | 2.20                       |
| <b>2</b> | <b>Wildlife Monitoring</b>   |                              |                         |                            |
|          | (a) Procurement of Anti depredation-cum-wildlife monitoring Kits (Binoculars, Compass, Range Finders, Tents, sleeping bag, water bottle, all terrain shoes, carry bag, torch, uniforms for rapid response team etc.) | 20 Nos.                      | 0.60                    | 12.00                      |
|          | (b) Survey, inventory, documentation and mapping of flora & fauna in respect of Bonai Forest Division by engagement of a Research Scholar/ Wildlife Biologist  |                              |                         | 10.00                      |
|          | <b>Total</b>   |                              |                         | <b>24.20</b>               |
|          | <b>20% Escalation</b>  |                              |                         | <b>04.84</b>               |
|          | <b>Grand Total</b>   |                              |                         | <b>29.04</b>               |

Approved



PCCF (WL) & CWLW, Odisha



A/c NO - 0247257007043  
IFSC code - CNRB00000247

ANNEXURE - 6

5/14/24, 11:48 AM

NEFT RTGS CHALLAN

**AGENCY COPY**

**यूनियन बैंक Union Bank of India**

**NEFT / RTGS CHALLAN for CAMPA Funds**  
Date : 14-05-2024

|                  |  |
|------------------|--|
| Agency Name.     | RUNGTA MINES LTD   |
| Application No.  | 61154639990  |
| MoEF/SG File No. | 5-ORC627/2024-BHU  |
| Location.        | ORRISA   |
| Address.         | Rungta Office, Main Road,<br>At/PO: Barbil,<br>Odisha/Keonjhar |
| Amount(in Rs)    | 36508494/-   |

Amount in Words: Three Crore Sixty-Five Lakh Eight Thousand Four Hundred and Ninety-Four Rupees. Only

**NEFT/RTGS to be made as per following details;**

|                      |  |
|----------------------|--|
| Beneficiary Name:    | ORRISA CAMPA   |
| IFSC Code:           | UBIN0996335  |
| Pay to Account No.   | 1508261154639990<br><i>Valid only for this challan amount.</i>   |
| Bank Name & Address: | Union Bank Of India<br>FCS Centre, 21/1, III Floor,<br>Jelitta Towers, Mission<br>Road, Bengaluru-560027 |

\* This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

**BANK COPY**

**यूनियन बैंक Union Bank of India**

**NEFT / RTGS CHALLAN for CAMPA Funds**  
Date : 14-05-2024

|                  |  |
|------------------|--|
| Agency Name.     | RUNGTA MINES LTD   |
| Application No.  | 61154639990  |
| MoEF/SG File No. | 5-ORC627/2024-BHU  |
| Location.        | ORRISA   |
| Address:         | Rungta Office, Main Road,<br>At/PO: Barbil, Odisha<br>Keonjhar |
| Amount(in Rs)    | 36508494/-   |

Amount in Words: Three Crore Sixty-Five Lakh Eight Thousand Four Hundred and Ninety-Four Rupees. Only

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\* This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

**Note:** After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank, epurse@unionbankofindia.bank, ubin0903710@unionbankofindia.bank

Print

Back

Approach Road Demand Details

- ① CA = Rs. 1,47,07,700/-
- ② ACA = Rs 16,47,900/-
- ③ NPV = Rs 1,87,87,334/-
- ④ Rwp = Rs 13,65,560/-
- Total Rs = 3,65,08,494/-

CNRBR 5202405148030 99 78

**RUNGTA MINES LIMITED**

*[Signature]*  
(Authorized Signatory)

*[Signature]*  
(Authorized Signatory)





A/c NO - 0247257007043  
IFSC code - CNRB0000247

ANNEXURE-7

5/14/24, 11:48 AM

NEFT RTGS CHALLAN

**AGENCY COPY**

**यूनियन बैंक Union Bank of India**

**NEFT / RTGS CHALLAN for CAMPA Funds**  
Date : 14-05-2024

|                  |  |
|------------------|--|
| Agency Name.     | RUNGTA MINES LTD   |
| Application No.  | 61154639990  |
| MoEF/SG File No. | 5-ORC627/2024-BHU  |
| Location.        | ORRISA   |
| Address.         | Rungta Office, Main Road,<br>At/PO: Barbil,<br>Odisha Keonjhar |
| Amount(in Rs)    | 36508494/-   |

Amount in Words: Three Crore Sixty-Five Lakh Eight Thousand Four Hundred and Ninety-Four Rupees Only

**NEFT/RTGS to be made as per following details;**

|                      |  |
|----------------------|--|
| Beneficiary Name:    | ORRISA CAMPA   |
| IFSC Code:           | UBIN0996335  |
| Pay to Account No.   | 1508261154639990<br><i>Valid only for this challan amount.</i>   |
| Bank Name & Address: | Union Bank Of India<br>FCS Centre, 21/1, III Floor,<br>Jelitta Towers, Mission<br>Road, Bengaluru-560027 |

• This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

**BANK COPY**

**यूनियन बैंक Union Bank of India**

**NEFT / RTGS CHALLAN for CAMPA Funds**  
Date : 14-05-2024

|                  |  |
|------------------|--|
| Agency Name.     | RUNGTA MINES LTD   |
| Application No.  | 61154639990  |
| MoEF/SG File No. | 5-ORC627/2024-BHU  |
| Location.        | ORRISA   |
| Address:         | Rungta Office, Main Road,<br>At/PO: Barbil, Odisha<br>Keonjhar |
| Amount(in Rs)    | 36508494/-   |

Amount in Words: Three Crore Sixty-Five Lakh Eight Thousand Four Hundred and Ninety-Four Rupees Only

**NEFT/RTGS to be made as per following details;**

|                      |  |
|----------------------|--|
| Beneficiary Name:    | ORRISA CAMPA   |
| IFSC Code:           | UBIN0996335  |
| Pay to Account No.   | 1508261154639990<br><i>Valid only for this challan amount.</i>   |
| Bank Name & Address: | Union Bank Of India<br>FCS Centre, 21/1, III Floor,<br>Jelitta Towers, Mission<br>Road, Bengaluru-560027 |

• This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

**Note:** After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank, epurse@unionbankofindia.bank, ubin0903710@unionbankofindia.bank

Print

Back

Approach Road Demand Details

① CA = Rs 1,47,07,700/-

② ACA = Rs 16,47,900/-

③ NPV = Rs 1,87,87,334/-

④ Rwp = Rs 13,65,560/-

Total Rs = 3,65,08,494/-

CNRBR 5202405148030 99 78

RUNGTA MINES LIMITED

*[Signature]*  
(Authorised Signatory)

*[Signature]*  
(Authorised Signatory)



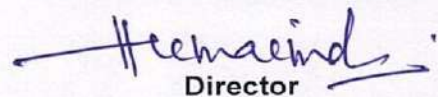


## ANNEXURE- 8

The details of payment are given below for Diversion of 13.077 ha of forest land for construction of approach road from existing Koira-Belkudar-Patamunda Road to Jumka Pathiriposhi Pahar Iron Ore Block of M/s Rungta Mines Limited under Bonai Forest Division of Sundargarh District.

| Sl. No.      | Condition No.       | In Account of                                     | UTR NO.                    | Date of Payment | Amount                                  |
|--------------|---------------------|---|----------------------------|-----------------|---|
| 1.           | Condition No.A(vii) | Compensatory Afforestation (CA)                   | CNRBR520240<br>51480309978 | 14.05.2024      | 1,47,07,700.00                          |
| 2.           | Condition No.B(iii) | Additional Compensatory Afforestation (ACA)       |                            |                 | 16,47,900.00                            |
| 3.           | Condition No.A(i)   | Net Present Value(NPV)                            |                            |                 | 1,87,87,334.00                          |
| 4.           | Condition No.A(v)   | Regional Wildlife Management Plan (RWLMP)         |                            |                 | 13,65,560.00                            |
| Total Amount |                     |   |                            |                 | 3,65,08,494.00                          |
| 5            | Condition No.A(iv)  | Site specific Wildlife Conservation Plan (SSWLCP) | CNRBR520240<br>50879953412 | 08.05.2024      | 9,04,44,000.00<br>(715.80+29.04+159.60) |

For Rungta Mines Limited

  
Director





## ସମନ୍ୱିତ ଆଦିବାସୀ ଉନ୍ନୟନ ସଂସ୍ଥା, ସୁନ୍ଦରଗଡ଼

INTEGRATED TRIBAL DEVELOPMENT AGENCY, SUNDARGARH

Tel.No. - 06622-273057, Fax - 273057, e-mail- itdasng@nic.in

No. ...1394.../ITDA

Date: ...11/5/23

To

The Divisional Forest Officer,  
Bonai Forest Division, Bonai.

Sub:

Diversion proposal of 13.077 ha. (12.257 ha. under Koira Tahasil &amp; 0.820 ha. under Lahunipara Tahasil) of forest land for non-forest purpose under Koida and Lahunipara Tahasil for construction of transportation road from Jhumka Pathiriposhi Pahar Iron Ore Block of M/s Rungta Mines Ltd. to the existing Koira- Belkudar- Patmunda road at village Belkudar (Linear Project)

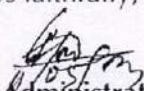
Sir,

With reference to the letter on the subject cited above, I am to furnish herewith the certificates regarding compliance of Scheduled Tribes and other traditional forest dwellers (Recognition of Forest Right) Act, 2006 in respect of Diversion proposal of 13.077 ha. (12.257 ha. under Koira Tahasil & 0.820 ha. under Lahunipara Tahasil) of forest land for non-forest purpose under Koida and Lahunipara Tahasil for construction of transportation road from Jhumka Pathiriposhi Pahar Iron Ore Block of M/s Rungta Mines Ltd. to the existing Koira- Belkudar- Patmunda road at village Belkudar (Linear Project) for taking further course of action at this end.

Enclosure:-

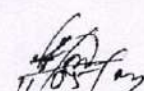
1. FRA Certificate in Form No. I along with land schedule.
2. Report of Tahasildar, Koida & Lahunipara
3. SDLC Proceedings.
4. DLC Proceedings.

Yours faithfully,

  
Project Administrator,  
ITDA, Sundargarh.

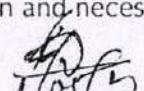
Memo No...1395.../ITDA Date: ...11/5/23.....

Copy submitted to the Additional District Magistrate, Sundargarh for favour of kind information.

  
Project Administrator,  
ITDA, Sundargarh.

Memo No...1396.../ITDA Date: ...11/5/23.....

Copy to M/s Rungta Mines Limited for information and necessary action.

  
Project Administrator,  
ITDA, Sundargarh.



**Form-I**

(For linear projects other than Plantations)

[Rule 6 (3) (e) of Forest (Conservation) Rules 2003 as amended up to date]

Government of Odisha

**OFFICE OF THE DISTRICT COLLECTOR, SUNDARGARH**

No. 1324.../ITDA(FRA) Dated: 4/4/23

**TO WHOM SO EVER IT MAY CONCERN**

In compliance of the Rule 6 (3) (e) of Forest (Conservation) Rules 2003 [as amended vide the Forest (Conservation) second Amendment Rules 2014; and Forest (Conservation) Amendment Rules 2016] it is certified that **13.077 hectares** of forest land proposed to be diverted in favour of **M/s Rungta Mines Limited, Barbil** for **construction of transportation road from Jhumka Pathiriposhi Pahar Iron Ore Block** in the district falls within the jurisdiction of **Koira & Lahunipara Tahasil**. It is further certified that:

(a) the complete process of recognition and vesting of forest rights under the FRA has been carried out for the entire **13.077 hectares** of forest land proposed for diversion. A copy of records of all consultations and meetings of the Forest Rights Committee (s), Gram Sabha (s), Sub-Division Level Committee (s) and the District Level Committee are enclosed as **Annexure-I & II**

(b) the diversion of forest land for facilities managed by the Government as required under section 3 (2) of the FRA, 2006 have been completed and the Gram Sabhas have given their consent to it;

(c) the proposed area does not involve recognised rights of Primitive Tribal Groups and Pre-Agricultural Communities.

Encl: As above.

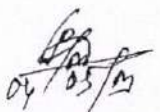


(Dr. Gavali Parag Harshad, IAS)  
COLLECTOR,  
SUNDARGARH  
COLLECTOR  
SUNDARGARH



**LAND SCHEDULED OF PROPOSED LAND FOR DIVERSION  
UNDER LAHUNIPARA TAHASIL**

| Sl. No. | Village | Khata No. | Plot No. | Hal Kisam    | Area in Ha   |
|---------|---------|-----------|----------|--------------|--------------|
| 1       | Kensara | 10        | 91       | Pahad        | 0.161        |
| 2       | Kensara | 10        | 95       | Pahad        | 0.142        |
| 3       | Kensara | 10        | 94       | Pahad        | 0.222        |
| 4       | Kensara | 10        | 90       | Pahad        | 0.109        |
|         |         |           |          |              | 0.186        |
|         |         |           |          | <b>Total</b> | <b>0.820</b> |

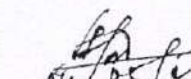
  
 04/05/23  
 Project Administrator  
 ITDA, Sundargarh

  
 COLLECTOR,  
 SUNDARGARH  
 COLLECTOR  
 SUNDARGARH



**LAND SCHEDULED OF PROPOSED LAND FOR DIVERSION  
UNDER KOIRA TAHASIL**

| Sl. No. | Village   | Khata No. | Plot No. | Hal Kisam    | Area in Ha    |
|---------|-----------|-----------|----------|--------------|---------------|
| 1       | Jaldihi   | 18        | 153      | Pahad        | 0.262         |
| 2       | Jaldihi   | 18        | 154      | Pahad        | 0.619         |
| 3       | Jaldihi   | 18        | 157      | Pahad        | 0.232         |
| 4       | Jaldihi   | 18        | 158      | Pahad        | 0.361         |
| 5       | Jaldihi   | 18        | 160      | Pahad        | 0.325         |
| 6       | Tantigram | 15        | 77       | Pahad        | 0.372         |
| 7       | Tantigram | 15        | 76       | Pahad        | 0.485         |
| 8       | Tantigram | 15        | 80       | Pahad        | 0.053         |
| 9       | Tantigram | 15        | 75       | Pahad        | 0.066         |
| 10      | Tantigram | 15        | 75       | Pahad        | 0.191         |
| 11      | Tantigram | 15        | 7        | Pahad        | 0.503         |
| 12      | Tantigram | 15        | 11       | Pahad        | 0.004         |
| 13      | Tantigram | 15        | 74       | Pahad        | 0.051         |
| 14      | Tantigram | 15        | 81       | Pahad        | 0.247         |
| 15      | Tantigram | 15        | 70       | Pahad        | 0.386         |
| 16      | Tantigram | 15        | 73       | Pahad        | 2.157         |
| 17      | Tantigram | 15        | 72       | Pahad        | 0.361         |
| 18      | Tantigram | 15        | 71       | Pahad        | 0.420         |
| 19      | Tantigram | 15        | 6        | Pahad        | 0.112         |
| 20      | Tantigram | 15        | 18       | Pahad        | 0.169         |
| 21      | Tantigram | 15        | 16       | Pahad        | 0.026         |
| 22      | Tantigram | 15        | 10       | Pahad        | 0.416         |
| 23      | Tantigram | 14        | 20/87    | Goda-II      | 0.021         |
| 24      | Tantigram | 14        | 22       | Goda-II      | 0.067         |
| 25      | Tantigram | 14        | 23       | Goda-II      | 0.050         |
| 26      | Tantigram | 12        | 19/93    | Bastijogya   | 0.033         |
| 27      | Tantigram | 12        | 21       | Gochar       | 0.127         |
| 28      | Baldihi   | 68        | 13/541   | Pahad        | 0.198         |
| 29      | Baldihi   | 68        | 1        | Nala         | 0.110         |
| 30      | Baldihi   | 68        | 13/543   | Pahad        | 0.157         |
| 31      | Baldihi   | 68        | 13/543   | Pahad        | 0.052         |
| 32      | Kalamanga | 12        | 76       | Jungle       | 0.093         |
| 33      | Kalamanga | 12        | 76       | Jungle       | 0.080         |
| 34      | Kalamanga | 13        | 5        | Pahad        | 0.254         |
| 35      | Kalamanga | 13        | 4        | Pahad        | 0.005         |
| 36      | Kalamanga | 13        | 4        | Pahad        | 0.023         |
| 37      | Kalamanga | 13        | 80       | Pahad        | 0.514         |
| 38      | Kalamanga | 13        | 77       | Pahad        | 0.221         |
| 39      | Kalamanga | 13        | 78/82    | Nala         | 0.072         |
| 40      | Teherei   | 54        | 332      | Bad Jungle   | 0.797         |
| 41      | Teherei   | 54        | 332      | Bad Jungle   | 0.102         |
| 42      | Teherei   | 56        | 393      | Patra Jungle | 0.020         |
| 43      | Teherei   | 57        | 375      | Pahad        | 0.124         |
| 44      | Teherei   | 57        | 376      | Pahad        | 0.612         |
| 45      | Teherei   | 57        | 376      | Pahad        | 0.134         |
| 46      | Teherei   | 57        | 370      | Dunguri      | 0.320         |
| 47      | Teherei   | 57        | 370      | Dunguri      | 0.252         |
|         |           |           |          | <b>Total</b> | <b>12.257</b> |

  
Project Administrator  
ITDA, Sundargarh

  
COLLECTOR  
SUNDARGARH



The photographs of some of the pillars of the proposed forest land for diversion over 13.077 ha. of forest land for construction of approach road from Jumka Pathiriposhi Pahar Iron Ore Block to existing Koira-Belkudar-Patmunda road of M/s Rungta Mines Ltd.











STATE FOREST HEADQUARTERS, ODISHA  
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS & HOFF  
PLOT NO. GD-2/12, ARANYA BHAWAN, CHANDRASEKHARPUR  
BHUBANESWAR-751023

E-mail: [nodal.pccfhoff@odisha.gov.in](mailto:nodal.pccfhoff@odisha.gov.in) / [nodal.pccfodisha@gmail.com](mailto:nodal.pccfodisha@gmail.com)

Memo No. 8437 /9F (Road) - 61/2023

Dated, Bhubaneswar the 22nd April 2024

To

The Divisional Forest Officer  
Bonai Forest Division

Sub: Diversion of 13.077 ha of forest land for construction of approach road from Jureka-Pathiriposhi Pahar Iron Ore Block of M/s Rungta Mines Ltd. to existing Koira-Belkudar-Patamunda road in Bonai Forest Division of Sundargarh District, Odisha - Revised financial outlay of CA and Addl. CA regarding

Ref: This Office Memo No. 2065 dated 02.02.2024

In Inviting a reference to the memo cited above on the captioned subject, please find enclosed herewith a copy of the revised financial outlay for Compensatory Afforestation Scheme over an area of 13.319 ha of Non-Forest land identified in village Talabarada under Banspal Tahasil of BIP Range in Keonjhar Forest Division pertaining to the above project which has been approved by PCCF (FD & Nodal Officer, FC Act) as per approved One-time cost norm for Rs 1,47,07,700/- (Rupees one crore forty seven lakhs seven thousand and seven hundred) only.

Further, the financial outlay for Additional Compensatory Afforestation Scheme over an area of 4.0 ha of Degraded Forest land identified in Dhenkiam RF under Tamra Forest Range in Bonai Forest Division to accommodate the plantation of 1758 nos. pertaining to the above project has been approved by PCCF (FD & Nodal Officer, FC Act) as per approved One-time cost norm for Rs 16,47,900/- (Rupees sixteen lakhs forty seven thousand and nine hundred) only which is enclosed.

In this context, I am directed to request you to raise demand on the user agency for payment of compensatory levies through web portal of MoEF & CC and submit the deposit particulars of the amount paid in prescribed CAMPA format alongwith the Stage-I compliance.

Encl-As above

22/4/2024  
Chief Conservator of Forests (Nodal)



Memo No. 8438 Dt 22.04.2024

Copy forwarded to the RCCF, Rourkela Circle for information & necessary action with reference to this office Memo No. 2067 dated 02.02.2024.

22/4/2024  
Chief Conservator of Forests (Nodal)

Memo No. 8439 Dt 22.04.2024

Copy alongwith the financial outlay over 13.319 ha of Non-Forest land forwarded to the DFO, Keonjhar Forest Division for information & necessary action with reference to this office Memo No. 2068 dated 02.02.2024.

22/4/2024  
Chief Conservator of Forests (Nodal)

Memo No. 8440 Dt 22.04.2024

Copy alongwith its enclosure forwarded to the Director, M/s Rungta Mines Ltd., At/Po: Barbil, Dist: Keonjhar-758035, Odisha for information and necessary action with reference to this office Memo No. 2069 dated 02.02.2024.

22/4/2024  
Chief Conservator of Forests (Nodal)

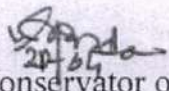


Financial Outlay for **Compensatory Afforestation Scheme** over an area of **13.319 ha** of **Non-Forest land** identified in **Village Talabarada under Banspal Tahasil of BJP Range in Keonjhar Forest Division** in respect of forest land to be diverted for proposed approach road from **Jumka-Patheriposhi Pahar Iron Ore Block of M/s Rungta Mines Ltd.** as per approved One-time Cost Norm

| Sl. No.            | Description  | Amount (Rs.)   |
|--------------------|--|--|
| 1.                 | Cost of AR Plantation @ 1000 Plants per ha over 11.319 ha @ Rs.2,71,716/- per ha with 10 years maintenance   | 30,75,553.00   |
| 2.                 | Cost of Angle Iron & Chain link wire mesh fencing over 2480 RMT @ Rs.4,85,432/- per 250 RMT/ ha with 10 years maintenance (As proposed by DFO, Keonjhar Forest Division)   | 48,15,485.00   |
| 3.                 | Cost of SMC activities like staggered trenches, percolation pits, contour trench, graded earthen bund, LBCD, wire mesh LBCD, Sub-Surface Dyke and WHS as per the slope and site requirement @ Rs.41,248/- per ha over 13.319 ha with 5 years maintenance | 5,49,382.00  |
| 4.                 | Watering by Diesel Pump Set fitted with borewell for 11319 plants @ Rs.5,53,688/- per 1000 plants (As proposed by DFO, Keonjhar Forest Division)   | 62,67,194.00   |
| <b>Grand Total</b> |  | <b>1,47,07,614.00</b><br><b>or rounded off to</b><br><b>1,47,07,700.00</b> |

(Rupees One Crore Forty Seven Lakhs Seven Thousand and Seven hundred) only

Approved

  
Principal Chief Conservator of Forests  
Forest Diversion & Nodal Officer, FC Act

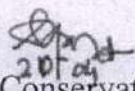


Financial Outlay for **Additional Compensatory Afforestation Scheme** over an area of **4.0 ha** of **Degraded Forest land** identified in **Dhenkiam RF under Tamra Range in Bonai Forest Division** to accommodate plantation of 1758 nos. seedlings in respect of forest land to be diverted for proposed approach road from **Jumka-Patheriposhi Pahar Iron Ore Block of M/s Rungta Mines Ltd.** as per approved One-time Cost Norm

| Sl. No.            | Description   | Amount (Rs.)   |
|--------------------|---|--|
| 1.                 | Cost of ANR Plantation @ 500 Plants per ha over 4.0 ha @ Rs.1,57,554/- per ha with 10 years maintenance   | 6,30,216.00  |
| 2.                 | Cost of Bamboo Twig and Thorn fencing over 830 RMT with 5 years maintenance @ Rs.1,15,725/- per 250 RMT/ ha (As proposed by DFO, Bonai Division)  | 3,84,207.00  |
| 3.                 | Cost of SMC activities like staggered trenches, percolation pits, contour trench, graded earthen bund, LBCD, wire mesh LBCD, Sub-Surface Dyke and WHS as per the slope and site requirement @ Rs.41,248/- per ha over 4.0 ha with 5 years maintenance | 1,64,992.00  |
| 4.                 | Watering by Solar Borewell fitted with Drip System for 2000 plants @ Rs.2,34,221/- per 1000 plants (As proposed by DFO, Bonai Division)   | 4,68,442.00  |
| <b>Grand Total</b> |   | <b>16,47,857.00</b><br><b>or rounded off to</b><br><b>16,47,900.00</b> |

(Rupees Sixteen Lakhs Forty Seven Thousand and Nine Hundred) only

Approved

  
Principal Chief Conservator of Forests  
Forest Diversion & Nodal Officer, FC Act



**SCHEME FOR COMPENSATORY  
AFFORESTATION OVER 13.319 HA OF  
NON-FOREST GOVT. LAND IDENTIFIED  
IN VILLAGE TALABARADA UNDER  
BANSAPAL TAHASIL OF B.J.P. RANGE OF  
KEONJHAR FOREST DIVISION AGAINST  
PROPOSED APPROACH ROAD FROM  
JUMKA PATHIRIPOSHI PAHAR IRON ORE  
BLOCK  
OF  
M/S RUNGTA MINES LIMITED**

{Onetime cost norm provided by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021 on Base Norm for the year 2023-24) with maintenance period of 20 (twenty) years}



**ELEMENTS OF THE SCHEME FOR COMPENSATORY  
AFFORESTATION**

| <b>CHAPTER</b> | <b>PARTICULARS</b>   | <b>PAGE<br/>NUMBER</b> |
|----------------|--|------------------------|
| <b>I</b>       | <b>BRIEF NOTE ON THE PROPOSED FOREST<br/>DIVERSION PROPOSAL</b>                  | <b>01 to 01</b>        |
| <b>II</b>      | <b>DETAILS OF LAND IDENTIFIED FOR<br/>COMPENSATORY AFFORESTATION</b>             | <b>02 to 03</b>        |
| <b>III</b>     | <b>DELINEATION OF PROPOSED AREA ON<br/>SUITABLE MAP</b>                          | <b>03 to 03</b>        |
| <b>IV</b>      | <b>AGENCY RESPONSIBLE FOR<br/>COMPENSATORY AFFORESTATION</b>                     | <b>03 to 03</b>        |
| <b>V</b>       | <b>DETAILS OF WORK SCHEDULED<br/>PROPOSED FOR COMPENSATORY<br/>AFFORESTATION</b> | <b>04 to 05</b>        |
| <b>VI</b>      | <b>COST STRUCTURE OF PLANTATION,<br/>PROVISION OF FUNDS AND UTILIZATION</b>      | <b>06 to 17</b>        |
| <b>VII</b>     | <b>DETAILS OF PROPOSED MONITORING<br/>MECHANISM</b>                              | <b>18 to 18</b>        |



## CHAPTER-I

### **BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL**

M/s Rungta Mines Ltd has been declared as preferred bidder for grant of Mining Lease of Jumka Pathiriposhi Pahad Iron ore block. The Letter of Intent has also been issued by Government of Odisha, Steel & Mines Department vide No. 8716/SM, Bhubaneswar, dated 28.10.2021. The Validity of LOI is for a period of 3 (three) years from the date of its issuance. According to this process calendar for grant of mining lease the last date of execution of mining lease deed will be 27.10.2024 i.e.3 years from date of issuance of letter of intent (LOI).

As per the data provided by Directorate of Mines, Steel & Mines Department, Government of Odisha, the total mining lease DGPS surveyed area is 158.509 Ha (156.978 Ha forest + 1.531 Ha Non-forest). Total Iron Ore Resources of All grades are 140.28 MT. Mining plan has been approved by Indian Bureau of Mines, Bhubaneswar vide letter No. MP/A/18-ORI/BHU/2021-22 dated 24.11.2021. Terms of Reference (ToR) has been issued by Ministry of Environment, Forest and Climate Change, Impact Assessment Division vide No: IA-J-11015/2/2022-IA-II (NCM) dated 18.02.2022 with production capacity of 3.35 Million TPA iron ore with a total excavation of 3.98 MTPA.

Further, the user agency has applied through online for diversion of the forest land under section-2(ii) of the Forest Conservation Act, 1980, for approval of the Central Government. The proposal number is (FP/OR/ MIN / 150048 /2021, State serial No-OR-098/2021 dated 22.12.2021).

The iron ore will be supplied to different steel plant, sponge iron plant, pellet plants etc. for ultimate production of Steel and also for export to earn foreign exchange for development of our country. Transportation shall be made through public railway siding, as well as through trucks directly to destination.

There is no transportation road through which iron ore will be supplied to the different destinations including Kamanda Steel plant of M/s Rungta Mines Limited. The nearby available existing roads are passing through village habitations and through the existing leases of Jaldihi Mine and Kanther Koira Mine. The existing road is also not suitable for heavy Traffic density.

Now, the User Agency has proposed to construct a dedicated separate road from Jumka Pathiriposhi Pahar Iron block of M/s Rungta Mines Limited to the existing Koira-Belakudar- Patamunda road, at village Belakudar over a distance of 12.291 Km (12.135 Km in Forest area + 0.156 Km in Non-forest area) for transportation of Iron ore to the desired destination. The average width of the road will be 10.776 mt. 13.077 Ha Forest land and 0.168 Ha Non-Forest land land will be involved in the instant proposal. Without the proposed transportation route, the mining activities cannot be carried out in the above said block.

The present Compensatory Afforestation scheme is so prepared to compensate the non-forest land for non-forestry use at the Non-forest Govt. land identified in village Talabarada under BJP Range of Banspal Tahasil allotted for the said purpose vide letter No. 505/Rev dt. 27.02.2023 of Collector, Keonjhar. The CA scheme is prepared at present prevailing wages rate i.e. @Rs. 345.00 per man days (As per onetime cost norm provided by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021 on Base Norm for the year 2023-24) over 13.319 ha with maintenance period of 20 (twenty) years.



**CHAPTER- II**  
**DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION**

**A. LAND IDENTIFICATION AND JOINT VERIFICATION OF THE IDENTIFIED SITE.**

The site for Compensatory Afforestation has been identified in village Talabarada under Bansapal Tahasil in B.J.P. Range of Keonjhar Forest Division over 13.319 ha in two patches and has been jointly verified by the Tahasildar, Bansapal, Revenue Inspector, Taramakanta, Range Officer, B.J.P. Range and Forest Section Officer, Suakati and found suitable for compensatory afforestation.

**B. INFORMATION ON NON-ENCROACHMENT AND NON-ENCUMBRANCE.**

The Tahasildar, Bansapal has given certificate of non-encroachment and non-encumbrance in respect of the non-forest Govt. land identified and allotted for Compensatory Afforestation over 13.319 ha in respect of proposed approach road from Jumka Pathiriposhi Pahar iron ore block of M/s Rungta Mines Limited.

**C. INFORMATION ON LAND STATUS.**

The land scheduled and land status identified and allotted for Compensatory Afforestation is furnished hereunder:-

| Tahasil  | Village    | Khata No. | Plot No.     | Area(in Ha)   | Kissam.   |
|----------|------------|-----------|--------------|---------------|-----------|
| Bansapal | Talabarada | 26(AAA)   | 02(P)        | 0.028         | Parbat- I |
|          |            |           | 07(P)        | 5.453         | Parbat- I |
|          |            |           | 08(P)        | 0.554         | Parbat- I |
|          |            |           | 09(P)        | 5.592         | Parbat- I |
|          |            |           | 14(P)        | 1.692         | Parbat- I |
|          |            |           | <b>Total</b> | <b>13.319</b> |           |

**D. SUITABILITY OF IDENTIFIED SITE FOR COMPENSATORY AFFORESTATION.**

The identified land is free from encroachment and encumbrance. This land is neither covered under Section-4 of Orissa Forest Act, 1972 nor included in DLC report.

The non-forest Govt. land identified in village Talabarada is in one patch situated on upland with gentle slope is suitable for Compensatory Afforestation. As per the report of the Range Officer, BJP Range vide his memo No 208 dt. 17.02.2023 (Copy enclosed).



### CHAPTER-III

#### DELINEATION OF PROPOSED AREA ON SUITABLE MAP

##### III(1) GPS COORDINATES AND GPS MAP OF THE COMPENSATORY AFFORESTATION SITE

The area has been demarcated through DGPS survey and 26 nos of 4' height RCC pillars have been posted around the identified area. The DGPS survey data showing latitude & Longitude of each point and their chainage with bearing has been depicted in the village sheet map (Map Enclosed). One durable sign boards has been erected at the identified site at a conspicuous location with name of the project, year of allotment, name of the scheme, details of plots etc. depicted there on.

##### Decision Support System of Non-Forest Govt. land identified in village Talabarada under Banspal Tahasil

| Name of the site   | Area identified for plantation (in ha) | MDF (in Sq. Km) | Non-forest (in Sq. Km) | Open Forest (in Sq. Km) |
|--------------------|--|-----------------|------------------------|-------------------------|
| Village-Talabarada | 13.319                                 | 0.02            | 0.02                   | 0.09                    |

### CHAPTER- IV

#### AGENCY RESPONSIBLE FOR COMPENSATORY AFFORESTATION

##### IV(1) AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS

The user agency shall provide funds for raising Compensatory Afforestation as per the approved scheme.

##### IV(2) AGENCY RESPONSIBLE FOR EXECUTION OF COMPENSATORY AFFORESTATION

The Territorial Wing of the Forest Department i.e. Divisional Forest Officer, Keonjhar Division will be assigned with the task for execution of Compensatory Afforestation.



## CHAPTER- V

### **DETAILS OF WORK SCHEDULE PROPOSED FOR COMPENSATORY AFFORESTATION**

#### **A. PLANTING PLAN**

Planting Plan reflects the species specific treatment of the identified site. Choice of species is based on the geo-morphology of the site, soil-texture, structure, fertility and depth, proneness of the site to water logging etc. Specific treatment of the site in terms of soil and moisture conservation intervention will be depicted in the treatment map. A treatment map will invariably be prepared for Species to be planted and treatments to be applied to the different patches shown in the treatment map and planting plan. This plan will be followed when actual planting is carried out. The Range Officer, BJP Range has submitted verification report vide his memo No. 208 dt. 17.02.2023. The report of GIS based DSS is enclosed herewith.

#### **Species to be planted:-**

1. *Syzgium cumini* (Jamu)
2. *Adina cardifolia* (Kuruma)
3. *Anogeissus latifolia* (Dhaura)
4. *Dalbergia sissoo* (Sissoo)
5. *Azadirachta indica* (Neem)
6. *Gmelina arborea* (Gambar)
7. *Pongamia pinnata* (Karanja)
8. *Emblica officinalis* (Amla)
9. *Artocarpus integrifolia* (Panasa)

#### **B. PRE-PLANTING OPERATION**

##### **B(I)-RAISING OF PLANTATION STOCK- NURSERY-**

Nursery will be raised @1100 seedlings per ha over 11.319 including seedlings for 10% casualty replacement.

##### **B(II)-SURVEY, DEMARCATION & PILLAR POSTING, GPS READING WITH MAPPING-**

The planting area has been surveyed and demarcated through DGPS survey and 26 nos of 4' height RCC pillars have been posted (as per the direction of forest Range Officer, BJP Range) with GPS co-ordinates, forward and backward bearing, pillar No. and distance between pillars inscribed in it. A DGPS map in the scale of 1:4000 has been prepared along with DGPS co-ordinates forward and backward bearing, pillar No. and distance between pillars reflected in the map. One durable sign boards have been erected at a conspicuous location with name of the site, scheme, area etc. depicted on it.

##### **B(III)-SITE PREPARATION AND SILVICULTURAL OPERATION INCLUDING CLEARANCE OF WEED, CLIMBER CUTTING, HIGH STUMP CUTTING, SINGLING OF SHOOTS-**

The clearing of the site involving removal of invasive weeds, bushes, climbers, high stumps and singling of shoots will be taken up preferably by the end of February and latest by the end of March. Pits of the dimension 45cm<sup>3</sup> will be dug AR model @1000 seedlings/ ha over 11.319 ha preferably 2 months before or at least a month before planting of seedlings.



### **C. PLANTING OPERATION**

Planting of seedlings will be taken up in the month of July. The polythene {(size 12 x 10) (300 gauge)} covering of the balls of earth will be carefully removed before planting. Care will be taken to see that the ball of earth is not broken while doing so. The seedling with the ball of earth will then be placed firmly in the pit and buried at such a depth that the root collar is well below the surface of the soil. The soil around the plant will be well compacted with the heel as a final step so that there is a proper bond between the ball and the surrounding soil. The earth close to the collar will be slightly elevated so that rain water does not accumulate very close to the plant.

### **D. POST PLANTING OPERATION**

#### **D(1)-CASUALTY REPLACEMENT**

The entire area will be gone over in the same order as plantation was carried out and casualties, if any, will be replaced as soon as the main plantation operation is over.

#### **D(2)-WEEDING AND SOIL WORKING**

Regular and efficient weeding will start immediately after sprouting of the stumps is complete or after the seedlings have started throwing up new buds.

#### **D(3)-MANURING AND INSECTICIDE APPLICATION**

On degraded sites urban compost or farmyard manure, wherever available, will be added to the soil while refilling the pits. As regards artificial fertilizers, the minerals required and dosage @ 50 gms of patent mixtures like 'Gromor' or N.P.K. (2:2:1) will be applied in two split doses one in August and the other in September.

#### **D(4)-SOIL MOISTURE CONSERVATION MEASURES**

Special Soil Moisture Conservation Measures will be taken up through construction of LBCD structures of dimension 10' x 10' x 5' to the tune of 13 nos. over the entire plantation site.

#### **D(5)-WATERING PROVISION**

2 Nos. Diesel pump set with borewell (1 Pump set + Borewell for 5 ha plantation) for 11.319 ha plantation.

#### **D(6)-PROTECTION AGAINST FIRE AND BIOTIC INTERFERENCE**

It is proposed to protect the CA plantation from grazing by domestic animals using GI Chain Link Mesh Fencing. The total length of such GI Chain Link Mesh Fencing for the patch which comes to 2.48 KM or 2480 meter. Fire line tracing will be ensured to protect the plantation from fire and watch & ward will be provided as per the approved norm for protecting the plantation from grazing with involvement of Kadakala VSS.



## CHAPTER- VI

### COST STRUCTURE OF PLANTATION, PROVISION OF FUNDS AND UTILIZATION

Base Cost Norm for AR Plantation @1000 seedlings per ha (18 months old seedlings)  
@Rs.345.00/- Mandays as per revised wage rate by Labour Commissioner, Odisha,  
Bhubaneswar vide Notification No. 2500/LC dated 05.04.2023. Onetime cost norm provided by  
the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021.

| Sl. No   | Items of work  | Preferable Period of Execution | No of Mandays | Labour Cost (In Rs.) | Material Cost (In Rs.) | Total cost (In Rs.) |
|--|--|--------------------------------|---------------|----------------------|------------------------|---------------------|
| 1  | 2  | 3                              | 4             | 5                    | 6                      | 7                   |
| <b>0th Year (Advance work) Per- Plantation Operation</b> |  |                                |               |                      |                        |                     |
| 1  | Survey, Demarcation and Pillar posting   | Nov/Dec                        | 2             | 690                  | 0                      | 690                 |
| 2  | Preparation of Treatment Map (Digital Map)   | Nov/Dec                        | 1             | 345                  | 100                    | 445                 |
| 3  | Site preparation (Cleaning & removal of debris)  | Nov/Dec                        | 12            | 4140                 | 0                      | 4140                |
| 4  | Creation of 4.00 mt wide Inspection Path   | Feb/Mar                        | 1             | 345                  | 0                      | 345                 |
| 5  | Alignment and stacking of pits   | Feb/Mar                        | 1             | 345                  | 0                      | 345                 |
| 6  | Digging of pits (45 cm x 45 cm x 45 cm) in hard and gravelly soil  | Feb/Mar                        | 40            | 13800                | 0                      | 13800               |
| 7  | Construction of Temporary labour Shed, Drinking water facility and First-Aid etc.  | Jan/Mar                        | 0             | 0                    | 3500                   | 3500                |
|  | <b>Total</b>   |                                | <b>57</b>     | <b>19665</b>         | <b>3600</b>            | <b>23265</b>        |
| <b>1st Year /Plantation Year</b>                         |  |                                |               |                      |                        |                     |
| 1  | Refilling of pits by altering the dugout soil of the pits, application of organic compounds/ CDM/FYM & mixing the same properly.   | Jun/Jul                        | 7.5           | 2587.5               | 5000                   | 7587.5              |
| 2  | Transportation of 18 months old polythin bag seedlings in hired truck /tractor from the Permanent /Mega nursery to planting site including loading & unloading. (Average load of 10 Rkm) & stacking the seedling @ Rs. 6/- per Seedling.(1100 nos.)                                  | Jul/Aug                        | 0             | 0                    | 6600                   | 6600                |
| 3  | Watering poly pot seedlings at planting site.  | Jul/Aug                        | 2             | 690                  | 0                      | 690                 |
| 4  | Conveyance of poly pot seedling on head load from the stacking site to individual dugout pits within the planting site, applying insecticide, fertilizers & planting after scoping the soil with other applied materials & pressing the soil perfectly around the planted seedlings. | Jul/Aug                        | 22.5          | 7762.5               | 0                      | 7762.5              |
| 5  | <u>Cost of Fertilizer &amp; Insecticide</u><br>(a) NPK/Bin-fertilizer @ 50 gms/plant as basal dose=50kg@ Rs.30/-per kg= Rs. 1500.00<br>(b) Urea/Vermicompost/Mo Khata/any other fertilizer in two subsequent dose @ Rs. 750.00<br>©Insecticide/ Bio-pesticide @ 5                    | Jul/Aug                        | 0             | 0                    | 3000                   | 3000                |



|                             |  |           |             |                |              |                |
|-----------------------------|--|-----------|-------------|----------------|--------------|----------------|
|                             | gms/plant=5 kg @ Rs.15/- per kg=Rs. 750.00   |           |             |                |              |                |
| 6                           | Casualty Replacement @ 10th (100 nos)  | Jul/Aug   | 2.5         | 862.5          | 0            | 862.5          |
| 7                           | 1st weeding & Manuring   | Aug/Sep   | 12          | 4140           | 0            | 4140           |
| 8                           | 2nd Weeding , Soil working (1 mt. diameter around the plants) & Manuring   | Oct/Nov   | 15          | 5175           | 0            | 5175           |
| 9                           | Fire line tracing (2 m. wide fire line over 400m long) including maintenance of inspection path.   | Feb/Mar   | 3           | 1035           | 0            | 1035           |
| 10                          | Watch & Ward including watering as per requirement   | Aug/Mar   | 12          | 4140           | 0            | 4140           |
|                             | <b>Total</b>   |           | <b>76.5</b> | <b>26392.5</b> | <b>14600</b> | <b>40992.5</b> |
| <b>2nd Year Maintenance</b> |  |           |             |                |              |                |
| 1                           | Transportation of 100 seedlings from Nursery to plantation site Including loading, unloading & conveyance by Tractor @ Rs. 6/- per seedling  | Jul       | 0           | 0              | 600          | 600            |
| 2                           | Casualty replacement-10%   | Jul       | 2.5         | 862.5          | 0            | 862.5          |
| 3                           | Cost of Fertilizer & Insecticide<br>(a) Cost of Insecticide/ Bio-pesticide @ gms/ plant=0.5 kg @ Rs.150/- per kg=Rs.75/-<br>(b) Urea/NPK/Bio-fertilizer/Vermicompost/Mo Khata/any other fertilizer@ Rs. 2800/- | Jul/Aug   | 0           | 0              | 2875         | 2875           |
| 4                           | Weeding ( Complete weeding), manuring & Soil working, (1 m. diameter around the plants)  | Sep/Oct   | 15          | 5175           | 0            | 5175           |
| 5                           | Fire line tracing (2 m. wide fire line over 400m long) including maintenance of inspection path.   | Feb/Mar   | 3           | 1035           | 0            | 1035           |
| 6                           | Watch & Ward including watering as per requirement   | April/Mar | 18          | 6210           | 0            | 6210           |
| 7                           | Maintenance of Temporary Labour Shed, Drinking water facility and Fist Aid etc.  | April/Mar |             | 0              | 1000         | 1000           |
|                             | <b>Total</b>   |           | <b>38.5</b> | <b>13282.5</b> | <b>4475</b>  | <b>17757.5</b> |
| <b>3rd Year Maintenance</b> |  |           |             |                |              |                |
| 1                           | Cost of fertilizer(Urea/NPK/Bio-fertilizer/Vernicompost/Mo Khata/any other fertilizer  | Jul/Aug   | 0           | 0              | 2800         | 2800           |
| 2                           | Weeding ( Complete weeding), Manuring & Soil working, (1 m. diameter around the plants)  | Sep/Oct   | 15          | 5175           | 0            | 5175           |
| 3                           | Fire line tracing (2 m. wide fire line over 400m long) including maintenance of inspection path.   | Feb/Mar   | 3           | 1035           | 0            | 1035           |
| 4                           | Watch & Ward including watering as per requirement   | April/Mar | 18          | 6210           | 0            | 6210           |
| 5                           | Maintenance of Temporary Labour Shed, Drinking water facility and Fist Aid etc.  | April/Mar | 0           | 0              | 1000         | 1000           |
|                             | <b>Total</b>   |           | <b>36</b>   | <b>12420</b>   | <b>3800</b>  | <b>16220</b>   |
| <b>4th Year Maintenance</b> |  |           |             |                |              |                |
| 1                           | Fire line tracing (2 m. wide fire line over 400m long) including maintenance   | Feb/Mar   | 3           | 1035           | 0            | 1035           |



|                              |  |           |           |             |          |             |
|------------------------------|--|-----------|-----------|-------------|----------|-------------|
|                              | of inspection path.                                      |           |           |             |          |             |
| 2                            | Watch & Ward including maintenance of vegetative fencing | April/Mar | 18        | 6210        | 0        | 6210        |
|                              | <b>Total</b>   |           | <b>21</b> | <b>7245</b> | <b>0</b> | <b>7245</b> |
| <b>5th Year Maintenance</b>  |  |           |           |             |          |             |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3         | 1035        | 0        | 1035        |
| 2                            | Watch & Ward   | April/Mar | 18        | 6210        | 0        | 6210        |
|                              | <b>Total</b>   |           | <b>21</b> | <b>7245</b> | <b>0</b> | <b>7245</b> |
| <b>6th Year Maintenance</b>  |  |           |           |             |          |             |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3         | 1035        | 0        | 1035        |
| 2                            | Pruning of branches, Singling out of multiple shots      | Jan/Mar   | 3         | 1035        | 0        | 1035        |
| 3                            | Watch & Ward   | April/Mar | 18        | 6210        | 0        | 6210        |
|                              | <b>Total</b>   |           | <b>24</b> | <b>8280</b> | <b>0</b> | <b>8280</b> |
| <b>7th Year Maintenance</b>  |  |           |           |             |          |             |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3         | 1035        | 0        | 1035        |
| 2                            | Watch & Ward   | April/Mar | 18        | 6210        | 0        | 6210        |
|                              | <b>Total</b>   |           | <b>21</b> | <b>7245</b> | <b>0</b> | <b>7245</b> |
| <b>8th Year Maintenance</b>  |  |           |           |             |          |             |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3         | 1035        | 0        | 1035        |
| 2                            | Watch & Ward   | April/Mar | 18        | 6210        | 0        | 6210        |
|                              | <b>Total</b>   |           | <b>21</b> | <b>7245</b> | <b>0</b> | <b>7245</b> |
| <b>9th Year Maintenance</b>  |  |           |           |             |          |             |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3         | 1035        | 0        | 1035        |
| 2                            | Watch & Ward   | April/Mar | 18        | 6210        | 0        | 6210        |
|                              | <b>Total</b>   |           | <b>21</b> | <b>7245</b> | <b>0</b> | <b>7245</b> |
| <b>10th Year Maintenance</b> |  |           |           |             |          |             |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3         | 1035        | 0        | 1035        |
| 2                            | Watch & Ward   | April/Mar | 18        | 6210        | 0        | 6210        |
|                              | <b>Total</b>   |           | <b>21</b> | <b>7245</b> | <b>0</b> | <b>7245</b> |
| <b>11th Year Maintenance</b> |  |           |           |             |          |             |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3         | 1035        | 0        | 1035        |
| 2                            | Watch & Ward   | April/Mar | 18        | 6210        | 0        | 6210        |
|                              | <b>Total</b>   |           | <b>21</b> | <b>7245</b> | <b>0</b> | <b>7245</b> |
| <b>12th Year Maintenance</b> |  |           |           |             |          |             |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3         | 1035        | 0        | 1035        |
| 2                            | Watch & Ward   | April/Mar | 18        | 6210        | 0        | 6210        |
|                              | <b>Total</b>   |           | <b>21</b> | <b>7245</b> | <b>0</b> | <b>7245</b> |
| <b>13th Year Maintenance</b> |  |           |           |             |          |             |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3         | 1035        | 0        | 1035        |



|                              |  |           |    |      |   |      |
|------------------------------|--|-----------|----|------|---|------|
| 2                            | Watch & Ward   | April/Mar | 18 | 6210 | 0 | 6210 |
|                              | Total  |           | 21 | 7245 | 0 | 7245 |
| <b>14th Year Maintenance</b> |  |           |    |      |   |      |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3  | 1035 | 0 | 1035 |
| 2                            | Watch & Ward   | April/Mar | 18 | 6210 | 0 | 6210 |
|                              | Total  |           | 21 | 7245 | 0 | 7245 |
| <b>15th Year Maintenance</b> |  |           |    |      |   |      |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3  | 1035 | 0 | 1035 |
| 2                            | Watch & Ward   | April/Mar | 18 | 6210 | 0 | 6210 |
|                              | Total  |           | 21 | 7245 | 0 | 7245 |
| <b>16th Year Maintenance</b> |  |           |    |      |   |      |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3  | 1035 | 0 | 1035 |
| 2                            | Watch & Ward   | April/Mar | 18 | 6210 | 0 | 6210 |
|                              | Total  |           | 21 | 7245 | 0 | 7245 |
| <b>17th Year Maintenance</b> |  |           |    |      |   |      |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3  | 1035 | 0 | 1035 |
| 2                            | Watch & Ward   | April/Mar | 18 | 6210 | 0 | 6210 |
|                              | Total  |           | 21 | 7245 | 0 | 7245 |
| <b>18th Year Maintenance</b> |  |           |    |      |   |      |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3  | 1035 | 0 | 1035 |
| 2                            | Watch & Ward   | April/Mar | 18 | 6210 | 0 | 6210 |
|                              | Total  |           | 21 | 7245 | 0 | 7245 |
| <b>19th Year Maintenance</b> |  |           |    |      |   |      |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3  | 1035 | 0 | 1035 |
| 2                            | Watch & Ward   | April/Mar | 18 | 6210 | 0 | 6210 |
|                              | Total  |           | 21 | 7245 | 0 | 7245 |
| <b>20th Year Maintenance</b> |  |           |    |      |   |      |
| 1                            | Fire line tracing (2 m. wide fire line over 400m length) | Feb/Mar   | 3  | 1035 | 0 | 1035 |
| 2                            | Watch & Ward   | April/Mar | 18 | 6210 | 0 | 6210 |
|                              | Total  |           | 21 | 7245 | 0 | 7245 |



**Year wise Abstract of Cost Norm (showing seedling cost separately)**

| Sl. No | Year         | No. of Mandays | Labour cost (In Rs) | Material Cost(In Rs.) | Monitoring, Evaluation, Learning, Documentation and Other Contingency (5%) of (4+5) | Cost of Seedlings @ Rs. 54.54 per seedlings | Total Cost (In Rs.) |
|--------|--------------|----------------|---------------------|-----------------------|---|---|---------------------|
| 1      | 2            | 3              | 4                   | 5                     | 6   | 7   | 8                   |
| 1      | 0th year     | 57             | 19665               | 3600                  | 1163.25   | 0   | 24428.25            |
| 2      | 1st year     | 76.5           | 26392.5             | 14600                 | 2049.625  | 54542.6                                     | 97584.725           |
| 3      | 2nd year     | 38.5           | 13282.5             | 4475                  | 887.875   | 5454.2                                      | 24099.575           |
| 4      | 3rd year     | 36             | 12420               | 3800                  | 811.00  | 0   | 17031.00            |
| 5      | 4th year     | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 6      | 5th year     | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 7      | 6th year     | 24             | 8280                | 0                     | 414.00  | 0   | 8694.00             |
| 8      | 7th year     | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 9      | 8th year     | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 10     | 9th year     | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 11     | 10th year    | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 12     | 11th year    | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 13     | 12th year    | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 14     | 13th year    | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 15     | 14th year    | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 16     | 15th year    | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 17     | 16th year    | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 18     | 17th year    | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 19     | 18th year    | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 20     | 19th year    | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
| 21     | 20th year    | 21             | 7245                | 0                     | 362.25  | 0   | 7607.25             |
|        | <b>Total</b> | <b>568</b>     | <b>195960</b>       | <b>26475</b>          | <b>11121.75</b>   | <b>59996.8</b>                              | <b>293553.55</b>    |

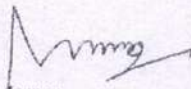


**Cost Norms for Creation of Compensatory Afforestation with Stabilization of Soil  
Moisture Conservation (SMC)**

| Annexure-11  |   |                                |            |
|--|---|--------------------------------|------------|
| Cost Norms for creation of Compensatory Afforestation with Stabilization of Soil & Conservation of Moisture (1000) |   |                                |            |
| WAGE RATE Rs-311/- PER DAY   |   |                                |            |
| Sl.No  | Item of Works   | Preferable Period of Execution | Total Cost |
| 0th Year (Pre-Planting Operation)  |   |                                |            |
| 1  | Nil   |                                | 0          |
| 1st Year   |   |                                |            |
| 2  | Soil Conservation measure structures like Staggered Trench, Percolation pit, Contour trench, Graded earthen bund, LBCD, Wire mesh LBCD, Sub surface Dyke & WIS as per the slope & site requirement on I.S | Apr/Sep/L                      | 20,215     |
| 2nd Year   |   |                                |            |
| 3  | Maintenance of SMC structures @ 15 % of initial year cost   | Apr/Jul                        | 3,032      |
| 3rd Year   |   |                                |            |
| 4  | Maintenance of SMC structures @ 15 % of initial year cost   | Apr/Jul                        | 3,032      |
| 4th Year   |   |                                |            |
| 5  | Maintenance of SMC structures @ 15 % of initial year cost   | Apr/Jul                        | 3,032      |
| 5th Year   |   |                                |            |
| 6  | Maintenance of SMC structures @ 15 % of initial year cost   | Apr/Jul                        | 3,032      |
| Total  |   |                                | 32,343.0   |

| Abstract |          |                 |                                 |               |                  |
|----------|----------|-----------------|---------------------------------|---------------|------------------|
| Sl. No   | Year     | No. person days | Labour cost @ Rs. 311/- per day | Material Cost | Total cost [Rs.] |
| 1        | 0th year | 0.0             | 0.0                             | 0.0           | 0.0              |
| 2        | 1st year | 0.0             | 0.0                             | 20,215.0      | 20,215.00        |
| 3        | 2nd year | 0.0             | 0.0                             | 3,032.00      | 3,032.00         |
| 4        | 3rd year | 0.0             | 0.0                             | 3,032.00      | 3,032.00         |
| 5        | 4th year | 0.0             | 0.0                             | 3,032.00      | 3,032.00         |
| 6        | 5th year | 0.0             | 0.0                             | 3,032.00      | 3,032.00         |
| Total    |          | 0.00            | 0.00                            | 32,343.0      | 32,343.0         |

Different types of SMC structures may be taken up as per the scope & requirements of the plantation site out of the design & specification of different structures annexed along this document.

  
A.P.C.C.F. (Forest Officer & Nil, FC Art)



# Matrix for (SMC)

## Matrix for (SMC)

| Sl. NO. | Commencement Year | I | II    | III   | IV    | V     | VI    | VII   | VIII  | IX    | X     | XI   | XII  | XIII | XIV  | XV | XVI | Total Cost |
|---------|-------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|----|-----|------------|
|         | Base Norm         | 0 | 20215 | 3052  | 3032  | 3032  | 3032  |       |       |       |       |      |      |      |      |    |     |            |
| 1       | 2021-22           | 0 | 21216 | 3342  | 3510  | 3655  | 3870  |       |       |       |       |      |      |      |      |    |     | 35633      |
| 2       | 2022-23           |   | 0     | 22287 | 3509  | 3655  | 3869  | 4054  |       |       |       |      |      |      |      |    |     | 37415      |
| 3       | 2023-24           |   |       | 0     | 23601 | 3684  | 3870  | 4052  | 4257  |       |       |      |      |      |      |    |     | 39284      |
| 4       | 2024-25           |   |       |       | 0     | 24571 | 3868  | 4054  | 4255  | 4480  |       |      |      |      |      |    |     | 41245      |
| 5       | 2025-26           |   |       |       | 0     | 25800 | 4051  | 4251  | 4457  | 4675  | 4701  |      |      |      |      |    |     | 43310      |
| 6       | 2026-27           |   |       |       |       | 0     | 27000 | 4251  | 4457  | 4680  | 4701  | 4930 |      |      |      |    |     | 45475      |
| 7       | 2027-28           |   |       |       |       |       | 0     | 28443 | 4477  | 4701  | 4701  | 4937 | 5155 |      |      |    |     | 47749      |
| 8       | 2028-29           |   |       |       |       |       |       | 0     | 29857 | 4701  | 4701  | 4939 | 5184 | 5445 |      |    |     | 50135      |
| 9       | 2029-30           |   |       |       |       |       |       |       | 0     | 31350 | 4935  | 5185 | 5441 | 5717 |      |    |     | 52642      |
| 10      | 2030-31           |   |       |       |       |       |       |       |       | 0     | 32918 | 5183 | 5445 | 5715 | 6023 |    |     | 55274      |

In Rupees

APCCF (Forest Diversion & NO, FC Act)



## Fencing Model F-II

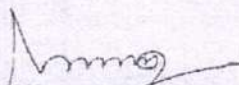
### Fencing for Compensatory Plantation raised outside the Forest Areas using Angle Iron & Chain Link Fencing

| Fencing Model-F-II  |  |                                |             |               |                     |                          |
|---|--|--------------------------------|-------------|---------------|---------------------|--------------------------|
| Fencing for Compensatory Plantation raised outside the Forest Areas using Angle Iron & Chain Link wire mesh<br>(250 Rmt/ Ha.) |  |                                |             |               |                     |                          |
| WAGE RATE Rs. 311/- PER DAY   |  |                                |             |               |                     |                          |
| Sl. No.   | Items of work  | Preferable Period of Execution | Man days    | Wages         | Material cost (Rs.) | Total Cost (Rs. per Ha.) |
| 0th Year (PPO)  |  |                                |             |               |                     |                          |
| 1   | Earth work (excavation of hole) 16 Bar 300 at a distance 3 mt. 0.40m x 0.40m x 0.10m = 0.064 x 84 = 5.376 cum @ Rs. 140/ cum = Rs. 753         |                                | 2.42        | 752.62        | 0.0                 | 752.6                    |
| 2   | Render concrete (1:4:10) using 40 mm BFG mesh 84 x 0.40m x 0.40m x 0.10m = 1.344 @ 3755.94/cum   |                                | 0           | 0             | 5047.4              | 5047.4                   |
| 3   | Angle iron pole of size 50 mm x 50 mm x 6 mm of height 2.40 mt. 84 x 2.40 = 201.60 Sqmt. @ 4.50/kg/ Sqmt. = 907.20 kg @ 69.50 per kg           |                                |             |               | 63050.0             | 63050.0                  |
| 4   | Render of concrete (1:4:10) for lining the iron angle pole using 12mm BFG Chips 84 x 0.40m x 0.40m x 0.30m = 4.032 cum @ 5406.77/cum           |                                |             |               | 22123.0             | 22123.0                  |
| 5   | Cost of Chain link mesh using 4 mm Dia GI wire having gap size 50 mm x 50 mm 250 Rmt x 2.10 mt. = 525 Sq.mt @ 331/Sqmt = Rs. 1,73,775          |                                |             |               | 1,73,775.0          | 1,73,775.0               |
| 6   | Double coat painting of iron angle pole over a coat of primer using good quality enamel paint 84 x 2.10 x 0.20 = 35.28 sqmt. @ Rs. 108.00/Sqmt |                                |             |               | 3830.0              | 3830.0                   |
| 7   | Painting of GI chain link mesh 250 x 2.10 x 2 = 1050/10 = 105 Sqmt. @ Rs. 108.00/Sqmt.   |                                |             |               | 11424.0             | 11424.0                  |
| 8   | Transportation of Chain link mesh, Iron angle, Strapping & tying of chain link mesh etc. @ 2% of the total cost.                               |                                |             |               | 5600.0              | 5600.0                   |
|   | <b>TOTAL</b>   |                                | <b>2.42</b> | <b>752.62</b> | <b>2,84,857.4</b>   | <b>2,85,610.0</b>        |
| Rate per running mt. 2,85,610/ 250 = Rs. 1142/Rmt   |  |                                |             |               |                     |                          |
| 1st Year Maintenance  |  |                                |             |               |                     |                          |
| 1   | No Maintenance is required.  | Sept./Oct.                     | 0           | 0             | 0                   | 0                        |
| 2nd Year Maintenance  |  |                                |             |               |                     |                          |
| 1   | Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11                                | Sept./Oct.                     | 0           | 0             | 11000               | 11000                    |
| 3rd Year Maintenance  |  |                                |             |               |                     |                          |
| 1   | Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11                                | Sept./Oct.                     | 0           | 0             | 11000               | 11000                    |
| 4th Year Maintenance  |  |                                |             |               |                     |                          |
| 1   | Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11                                | Sept./Oct.                     | 0           | 0             | 11000               | 11000                    |
| 5th Year Maintenance  |  |                                |             |               |                     |                          |
| 1   | Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11                                | Sept./Oct.                     | 0           | 0             | 11000               | 11000                    |
| 6th Year Maintenance  |  |                                |             |               |                     |                          |
| 1   | Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11                                | Sept./Oct.                     | 0           | 0             | 11000               | 11000                    |
| 7th Year Maintenance  |  |                                |             |               |                     |                          |
| 1   | Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11                                | Sept./Oct.                     | 0           | 0             | 11000               | 11000                    |
| 8th Year Maintenance  |  |                                |             |               |                     |                          |
| 1   | Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11                                | Sept./Oct.                     | 0           | 0             | 11000               | 11000                    |
| 9th Year Maintenance  |  |                                |             |               |                     |                          |
| 1   | Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr. 1142x 1% = 11.42 say Rs. 11                                | Sept./Oct.                     | 0           | 0             | 11000               | 11000                    |
| 10th Year Maintenance   |  |                                |             |               |                     |                          |



| Sl. No | Items of work  | Preferable Period of Execution | Man days | Wages | Material cost (Rs) | Total Cost (Rs. per Ha.) |
|--------|--|--------------------------------|----------|-------|--------------------|--------------------------|
| 1      | Maintenance of wire mesh fence @ 1% per running mt. cost of installation in 1st yr.<br>1142x 1% = 11.42 say Rs. 11 | Sept./Oct                      | 0        | 0     | 11000              | 11000                    |

| Abstract |           |                 |                                  |               |                  |
|----------|-----------|-----------------|----------------------------------|---------------|------------------|
| Sl. No   | Year      | No. person days | Labour cost @ Rs. 31 1/- per day | Material Cost | Total cost (Rs.) |
| 1        | 0th year  |                 |                                  |               |                  |
| 2        | 1st year  | 2.42            | 752.6                            | 284857.4      | 285610.0         |
| 3        | 2nd year  | 0.0             | 0.0                              | 0.0           | 0.0              |
| 4        | 3rd year  | 0.0             | 0.0                              | 11000.0       | 11000.0          |
| 5        | 4th year  | 0.0             | 0.0                              | 11000.0       | 11000.0          |
| 6        | 5th year  | 0.0             | 0.0                              | 11000.0       | 11000.0          |
| 7        | 6th year  | 0.0             | 0.0                              | 11000.0       | 11000.0          |
| 8        | 7th year  | 0.0             | 0.0                              | 11000.0       | 11000.0          |
| 9        | 8th year  | 0.0             | 0.0                              | 11000.0       | 11000.0          |
| 10       | 9th year  | 0.0             | 0.0                              | 11000.0       | 11000.0          |
| 11       | 10th year | 0.0             | 0.0                              | 11000.0       | 11000.0          |
| Total:   |           | 2.42            | 752.62                           | 383857.4      | 3,84,610.0       |

  
APC&F (Forest Diversion & NO, FC Act)



**Matrix for Model-F-II Fencing (Angle Iron & Chain Link Fencing)**

Matrix for Fencing Model-F- II (Iron angle with Chainlink wire mesh)

| Sl. No. | Common Name | I      | II     | III    | IV     | V      | VI     | VII    | VIII   | IX     | X      | XI    | XII   | XIII  | XIV   | XV    | XVI   | XVII  | XVIII | XIX   | XX    | XXI   | Total Cost |
|---------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|
| 1       | 2021-22     | 285610 | 0      | 11000  | 11000  | 11000  | 11000  | 11000  | 11000  | 11000  | 11000  | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 419311     |
| 2       | 2022-23     |        | 285610 | 0      | 11000  | 11000  | 11000  | 11000  | 11000  | 11000  | 11000  | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 440239     |
| 3       | 2023-24     |        |        | 285610 | 0      | 11000  | 11000  | 11000  | 11000  | 11000  | 11000  | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 452315     |
| 4       | 2024-25     |        |        |        | 285610 | 0      | 11000  | 11000  | 11000  | 11000  | 11000  | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 464391     |
| 5       | 2025-26     |        |        |        |        | 285610 | 0      | 11000  | 11000  | 11000  | 11000  | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 476467     |
| 6       | 2026-27     |        |        |        |        |        | 285610 | 0      | 11000  | 11000  | 11000  | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 488543     |
| 7       | 2027-28     |        |        |        |        |        |        | 285610 | 0      | 11000  | 11000  | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 500619     |
| 8       | 2028-29     |        |        |        |        |        |        |        | 285610 | 0      | 11000  | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 512695     |
| 9       | 2029-30     |        |        |        |        |        |        |        |        | 285610 | 0      | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 524771     |
| 10      | 2030-31     |        |        |        |        |        |        |        |        |        | 285610 | 0     | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 11000 | 536847     |

In Rupees

AtCCF (Forest Division & NO. FC Act)



## Watering Model – W-II

### Watering Provision to CA Plantation

| Watering Model-W-II   |   |                 |                                 |               |                  |
|---|---|-----------------|---------------------------------|---------------|------------------|
| Watering provision to CA Plantation   |   |                 |                                 |               |                  |
| Diesel pump set with Bore well (1 pump set + Bore well for 5 Ha Plantation). Wage rate @ Rs.311/- |   |                 |                                 |               |                  |
| Year of Installation (0th Year)   |   |                 |                                 |               |                  |
| 1   | Cost of Borewell  | 1,50,000        |                                 |               |                  |
| 2   | Cost of Diesel pump set 5HP   | 60,000          |                                 |               |                  |
| 3   | Diesel pump set & accessories like commander, Pipes, etc.                                   | 30,000          |                                 |               |                  |
| 4   | Water Storage Tanks/Flexible pipes  | 15,000          |                                 |               |                  |
|   |   | 2,55,000        |                                 |               |                  |
| Cost of Water per Plant (2,55,000/ 5000) = Rs. 51/-   |   |                 |                                 |               |                  |
| Cost of Water per Ha. = Rs. 51,000/-  |   |                 | 51,000                          |               |                  |
| 1st Year Watering   |   |                 |                                 |               |                  |
| 1   | Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water -21 x 1000=     |                 | 21,000                          |               |                  |
| 2   | Watering 1000 Plants (Nov-Mar.) @ 200 plants/MD with 7 days rotation                        |                 | 31,100                          |               |                  |
|   | 20 MD x 5 months = 100 MD x 311 =   |                 |                                 |               |                  |
|   |   |                 | Total 52,100                    |               |                  |
| 2nd Year Watering   |   |                 |                                 |               |                  |
| 1   | Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water -21 x 1000=     |                 | 21,000                          |               |                  |
|   | Maintenance Diesel pump set etc. @ 15 % of the installation cost.                           |                 | 7,650                           |               |                  |
| 2   | Watering 1000 Plants (April- June & Nov-Mar. 8 months) @ 200 plants/MD with 7 days rotation |                 | 49,760                          |               |                  |
|   | 20 MD x 8 months = 160 MD x 311 =   |                 |                                 |               |                  |
|   |   |                 | Total 78,410                    |               |                  |
| 3rd Year Watering   |   |                 |                                 |               |                  |
| 1   | Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water -21 x 1000=     |                 | 21,000                          |               |                  |
|   | Maintenance Diesel pump set etc. @ 15 % of the installation cost.                           |                 | 7,650                           |               |                  |
| 2   | Watering 1000 Plants (April- June & Nov-Mar. 8 months) @ 200 plants/MD with 7 days rotation |                 | 49,760                          |               |                  |
|   | 20 MD x 8 months = 160 MD x 311 =   |                 |                                 |               |                  |
|   |   |                 | Total 78,410                    |               |                  |
| 4th Year Watering   |   |                 |                                 |               |                  |
| 1   | Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water -21 x 1000=     |                 | 21,000                          |               |                  |
|   | Maintenance Diesel pump set etc. @ 15 % of the installation cost.                           |                 | 7,650                           |               |                  |
| 2   | Watering 1000 Plants (April- June & Nov-Mar. 8 months) @ 200 plants/MD with 7 days rotation |                 | 49,760                          |               |                  |
|   | 20 MD x 8 months = 160 MD x 311 =   |                 |                                 |               |                  |
|   |   |                 | Total 78,410                    |               |                  |
| 5th Year Watering   |   |                 |                                 |               |                  |
| 1   | Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water -21 x 1000=     |                 | 21,000                          |               |                  |
|   | Maintenance Diesel pump set etc. @ 15 % of the installation cost.                           |                 | 7,650                           |               |                  |
| 2   | Watering 1000 Plants (April- June & Nov-Mar. 8 months) @ 200 plants/MD with 7 days rotation |                 | 49,760                          |               |                  |
|   | 20 MD x 8 months = 160 MD x 311 =   |                 |                                 |               |                  |
|   |   |                 | Total 78,410                    |               |                  |
| Abstract  |   |                 |                                 |               |                  |
| Sl. No.   | Year  | No. person days | Labour cost @ Rs. 311/- per day | Material Cost | Total cost (Rs.) |
| 1   | 0th year  | 0               | 0.0                             | 51000.0       | 51000.0          |
| 2   | 1st year  | 100.0           | 31100.0                         | 21000.0       | 52100.0          |
| 3   | 2nd year  | 160             | 49760.0                         | 28650.0       | 78410.0          |
| 4   | 3rd year  | 160             | 49760.0                         | 28650.0       | 78410.0          |
| 5   | 4th year  | 160             | 49760.0                         | 28650.0       | 78410.0          |
| 6   | 5th year  | 160             | 49760.0                         | 28650.0       | 78410.0          |
|   | Total:  | 740             | 230140                          | 186600        | 4,16,740         |

APCCF (Forest Division & NO, FC Act)



**Matrix for Watering Model -W-II (Diesel Pumpset Fitted with Borewell) per Ha**

Matrix for Watering Model-W-II (Diesel Pumpset Fitted with Borewell) per Ha

| Sl. NO | Commence ment Year | I     | II    | III   | IV    | V     | VI     | VII    | VIII   | IX     | X      | XI     | XII    | XIII   | XIV    | XV     | XVI | Total Cost |
|--------|--------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|------------|
|        | Base Norm          | 5100  | 52100 | 78410 | 78410 | 78410 | 78410  |        |        |        |        |        |        |        |        |        |     | In Rupees  |
| 1      | 2021-22            | 51000 | 5-705 | 86439 | 90771 | 95307 | 100072 |        |        |        |        |        |        |        |        |        |     | 478294     |
| 2      | 2022-23            |       | 53550 | 57440 | 90761 | 95310 | 100072 | 105076 |        |        |        |        |        |        |        |        |     | 507209     |
| 3      | 2023-24            |       |       | 56228 | 60312 | 65299 | 100076 | 105076 | 110330 |        |        |        |        |        |        |        |     | 527321     |
| 4      | 2024-25            |       |       |       | 59039 | 63378 | 100066 | 105080 | 110330 | 115647 |        |        |        |        |        |        |     | 555688     |
| 5      | 2025-26            |       |       |       |       | 61951 | 66494  | 105067 | 110334 | 115647 | 121689 |        |        |        |        |        |     | 581372     |
| 6      | 2026-27            |       |       |       |       |       | 64081  | 69819  | 110330 | 115651 | 121689 | 127721 |        |        |        |        |     | 610441     |
| 7      | 2027-28            |       |       |       |       |       |        | 68350  | 73310  | 115836 | 121644 | 127721 | 130707 |        |        |        |     | 640964     |
| 8      | 2028-29            |       |       |       |       |       |        |        | 71763  | 76876  | 121628 | 127726 | 130707 | 142812 |        |        |     | 673012     |
| 9      | 2029-30            |       |       |       |       |       |        |        |        | 75351  | 80325  | 107729 | 130707 | 140812 | 147853 |        |     | 706662     |
| 10     | 2030-31            |       |       |       |       |       |        |        |        |        | 79112  | 84506  | 130684 | 140819 | 147853 | 155245 |     | 741996     |

ARCCF (Forest Diversion & NO, FC Act)



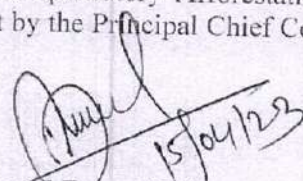
### TOTAL COST OF PROJECT

| S. No | Item of Work   | Unit price                   | In Rupees  |
|-------|--|------------------------------|--|
| 1     | Cost of AR plantation @1000 plants/ ha over 11.319 ha @Rs. 2,93,553.55 per ha with 20 years maintenance.   | 2,93,553.55 x 11.319 ha      | 3322732.63   |
| 2     | Cost of watch & ward and fire line creation for 2 ha CA land which is having canopy density more than 0.4 but susceptible to biotic pressure & fire. Wage rate @Rs. 630/- per mandays. (1 ha x 21 mandays x @Rs. 630/- x 20 years) | 2,64,600/- x 2 Nos.          | 529200.00  |
| 3     | Cost of Soil Moisture Conservation (SMC) (As per base norm of Matrix for the year 2023-24)   | 39,284/- x 13.319 ha         | 523223.59  |
| 4     | Cost of Angle Iron & Chain Link wire mesh Fencing with 10 years maintenance @4,62,316/- per 250 rmt/ha over 2480 Km. (As per base norm of Matrix for the year 2023-24)   | 4,62,316/ 250 RMT x 2480 RMT | 4586174.72   |
| 5     | Cost of 2 nos. borewell for watering (one diesel pump set fitted with borewell for 5 ha plantation) (As per base norm of Matrix for the year 2023-24)  | 5,27,321/- x 2 Nos.          | 1054642.00   |
|       | <b>Grand Total</b>   |                              | <b>10015972.94</b><br><b>Or say</b><br><b>1,00,16,000.00</b> |

(Rupees one crore sixteen thousand) only

### **PROVISION OF FUNDS AND FUND UTILIZATION**

Rs. 1,00,16,000/- (Rupees one crore sixteen thousand) only shall be deposited by the User Agency i.e. M/s Rungta Mines Limited on approval of the scheme in Ad-hoc CAMPA Account and the funds will be utilized for raising of Compensatory Afforestation by the Divisional Forest Officer, Keonjhar Division on allotment by the Principal Chief Conservator of Forests, Odisha, Bhubaneswar.

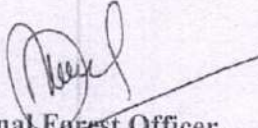
  
 Divisional Forest Officer,  
 Keonjhar Division



## CHAPTER- VII

### **DETAILS OF PROPOSED MONITORING MECHANISM**

Compensatory Afforestation will be taken up in the identified site by the Range Officer, BJP Forest Range of Keonjhar Division. The Range Forest Officer, BJP Forest Range will undertake field checks of the works undertaken at the identified site and will be cross checked by the Asst. Conservator of Forests, (Affn.) and Divisional Forest Officer, Keonjhar Division. DGPS/GPS co-ordinates along with other required informations of Compensatory Afforestation will be uploaded in the e-Green watch Portal of NIC, MoEF, Govt. of India for the purpose of online monitoring. Annual progress of plantation involving growth of planted seedlings, survival percentage etc. will be monitored and recorded in the plantation journal by the field staffs of BJP Forest Range and reported to the Divisional Forest Officer for necessary action. The same thing will be reported to the Regional Chief Conservator of Forests, Rourkela Circle and Chief Conservator of Forests (PP&A), O/o the Pr. Chief Conservator of Forests, Odisha, Bhubaneswar and necessary corrective measures will be followed if required so.

  
Divisional Forest Officer,  
Keonjhar Division



## CERTIFICATE ON DSS ANALYSIS FOR CA/ACA/PCA

This is to certify that DSS Analysis of land identified for CA/ ACA/ PCA and subsequent ground truthing have been done. The outcome is as mentioned below-

| Sl. No. | Name of Range | Name of the Forest Block (RF/PRF/PF/DPF/Revenue Forest) | Area identified for CA/ ACA/ PCA (in ha) | Classification of identified land (in ha) |                         |             |            |       |       |        | Area suitable for plantation (in ha) |            |       |        | Plantation model (AR/ANR) | Remarks                     |
|---------|---------------|---|--|---|-------------------------|-------------|------------|-------|-------|--------|--------------------------------------|------------|-------|--------|---------------------------|-----------------------------|
|         |               |   |  | Very Dense Forest                         | Moderately Dense Forest | Open Forest | Non-forest | Scrub | Water | Total  | Open Forest                          | Non-forest | Scrub | Total  |                           |                             |
| 1       | 2             | 3   | 4  | 5   | 6                       | 7           | 8          | 9     | 10    | 11     | 12                                   | 13         | 14    | 15     | 16                        | 17                          |
| 1       | BJP           | Village-Talabarada under Banspal Tahasil                | CA                                       | 0.00                                      | 2.00                    | 9.319       | 2.00       | 0.00  | 0.00  | 13.319 | 9.319                                | 2.00       | 0.00  | 11.319 | AR                        | 11.319 ha AR@1000 seedlings |



Divisional Forest Officer,  
Keonjhar Division.

Countersigned

Regional Chief Conservator of Forests,  
Rourkela Circle



IN FAVOUR OF M/s RUNGTA MINES LIMITED

| Date-<br>Tahasil:-Banspal  |                 |          |         |           |               |                    |       |        |  |         |
|--|-----------------|----------|---------|-----------|---------------|--------------------|-------|--------|--|---------|
| Range:-  | RUP Range       |          |         |           |               |                    |       |        |  |         |
| Sl No.   | Name of Village | Khata No | Plot No | Kissam    | Area (in Ha.) | Plantation(in Ha.) |       |        | Area (in Ha.) Found for Unsuitable with Reason | Remarks |
|  |                 |          |         |           |               | Block              | RDF   | Total  |  |         |
| 1  | 2               | 3        | 4       | 5         | 6             | 7                  | 8     | 9      | 10   | 11      |
| 2  | Talaborada      | 24 (AAA) | 2(P)    | PARBATA-1 | 9.2800        |                    |       | 0.078  |  |         |
| 3  |                 |          | 7(P)    | PARBATA-1 | 15.0000       |                    |       | 5.453  |  |         |
| 4  |                 |          | 8(P)    | PARBATA-1 | 9.6000        |                    |       | 0.564  |  |         |
| 5  |                 |          | 9(P)    | PARBATA-1 | 16.0000       |                    |       | 5.592  |  |         |
| 6  |                 |          | 14(P)   | PARBATA-1 | 16.0000       |                    |       | 1.692  |  |         |
|  |                 |          |         |           |               |                    | TOTAL | 13.319 |  |         |
| Certified that the above non-forest Government land is mentioned in sub-section 2 of the Forest Act, 1927. |                 |          |         |           |               |                    |       |        |  |         |

- 1- Certified that the above non-forest Government land as mentioned in column 7, 8 & 9 is a compact patches of 4.00 Ha. Or more having adequate soil depth suitable for plantation from management point of view.
- 2- Certified that the above Government land found suitable for plantation is free from encroachment and encumbrances.
- 3- Certified that the above Government land is not covered under 4(1) notification.
- 4- Certified that the above Government land is not covered under DLC.
- 5- Certified that the above Government land is not allotted previously.
- 6- Certified that the above Government land is not covered under any M.L./P.L area.
- 7- Certified that the above Government land is not settled in favour of individual/community under F.R Act, 2006.
- 8- Certified that the status of the above plots was non forest as on 25.10.1980.
- 9- Certified that the above plots are not covered under any proposed reserve forest.
- 10- Certified that the above plots are unfit not only for agriculture, but also for other developmental requirements.
- 11- Certified that the above plots have no future potential for agrarian or industrial use.
- 12- Certified that the above identified area contains sparse vegetation with density of 0.02 and scrubby forest growth fit for compensatory afforestation.

COUNTERSIGNED



**SCHEME FOR  
ADDITIONAL  
COMPENSATORY AFFORESTATION  
OVER 4.00 HA. IDENTIFIED IN  
DHENKIAM RESERVE FOREST  
IN TAMRA RANGE  
OF  
BONAI FOREST DIVISION  
AGAINST THE PROPOSAL FOR  
DIVERSION OF APPROACH ROAD  
FROM JUMKA-PATHRIPOSHI IRON  
ORE BLOCK TO EXISTING KOIRA-  
BELKUDAR PATMUNDA ROAD  
OF  
M/S RUNGTA MINES LIMITED**



**SCHEME FOR ADDITIONAL COMPENSATORY AFFORESTATION OVER  
4.00 HA. IDENTIFIED IN DHENKIAM RESERVE FOREST IN TAMRA RANGE  
OF BONAI FOREST DIVISION AGAINST THE PROPOSAL FOR DIVERSION  
OF APPROACH ROAD FROM JUMKA-PATHRIPOSHI IRON ORE BLOCK  
TO EXISTING KOIRA-BELKUDAR PATMUNDA ROAD OF  
M/S RUNGTA MINES LIMITED.**

**1. INTRODUCTION:**

M/s Rungta Mines Ltd. has submitted a proposal for diversion of 13.077 ha. of forest land for construction of approach road from their Jumka Pathriposhi Iron Ore Block to Existing Koira-Belkudar Patmunda Road in Sundargarh District. Equal extent of non-forest land is required for Compensatory Afforestation. Accordingly, 13.319 ha. of Govt. non-forest land has been identified in village Talbarada under Banspal Tehsil of Keonjhar District of Keonjhar Forest Division for raising of Compensatory Afforestation. As per Compensatory Afforestation Scheme prepared by DFO, Keonjhar Forest Division, AR plantation @1000 seedlings over 11.319 ha. has been proposed. Total seedlings in the aforesaid CA land will be accommodated 11319 nos. out of 13077 nos. of seedlings.

In order to achieve balance number of 1758 seedlings as per F.C. Guidelines, an area of 4.00 ha. of degraded forest land has been identified in Dhenkiam RF in Tamra Range of Bonai Forest Division.

The Addl. Compensatory Afforestation Scheme has been prepared for raising balance 1758 seedlings over 4.00 Ha. of degraded forest land for the above said road project in Bonai Forest Division. The above degraded forest land has been verified in the field by the Range Officer, Tamra Range and found suitable for plantation being free from encroachment and encumbrances. Location map showing in Topo sheet is enclosed herewith.

A total of 4.00 ha. of degraded forest land which has been identified for Addl. Compensatory Afforestation is fit to take up ANR Plantation @500 plants per hectare over 4.00 ha. The cost estimate for this plantation has been calculated as per cost norm for ANR Plantation @500 plants per ha., which is enclosed vide Annexure-I.

**2. IDENTIFICATION OF THE DEGRADED FOREST AREA:**

An area of 4.00 ha. of degraded forest land has been identified in Dhenkiam RF of Tamra Range of Bonai Forest Division for taking up Addl. Compensatory Afforestation. Dhenkiam RF comes under Selection Working Circle as per the Working Plan of Bonai Forest Division. The area has been inspected by the Range Officer, Tamra Range and found to be suitable for Addl. Compensatory Afforestation, and free from encroachment & encumbrances. Certificate to this effect furnished by the Range Officer, Tamra Range (Annexure-V).



Further the identified area has been verified with the help of Decision Support System (DSS) & found suitable for Compensatory Afforestation. The DSS report is attached as (Annexure-VI).

The Certificate on DSS analysis report in the prescribed format is enclosed as (Annexure-VII).

3. TOPOGRAPHY AND SOIL:

The forest land identified for this purpose is Hilly to slope, sandy loam and stony in some patches. The area experiences tropical climate with monsoon rainfall.

4. CLIMATE

The area experiences Sub-tropical climate. It is characterized by very hot summer and cool winter. Maximum temperature during summer rises upto 44<sup>o</sup> Celsius and the minimum goes down to 8<sup>o</sup> Celsius. The area gets rain from South-East Monsoon, which breaks during second fortnight of June and continues upto last week of September. The annual rainfall varies from 780 to 1880mm. The annual average rainfall is 1500mm. The bulk of precipitation occurs during July-August. During April-May, occasional rainfall occurs along with thunder storm.

5. EXISTING VEGETATION.

The vegetation of degraded forest land identified for raising Addl. Compensatory Afforestation in Dhenkiam RF comprises of Sal, Asan, Karda, Kurei, Bheru, Mae, Kendu etc. The canopy density has been reported to be less than 0.4.

6. OBJECTIVE OF THE SCHEME:

- i) To restock the barren forest land by planting suitable species.
- ii) To improve the micro-edaphic conditions by undertaking suitable soil and moisture conservation measures.
- iii) To protect the area against encroachment, illicit felling, fire occurrence, grazing etc., so as to check further degradation of the area.
- iv) To provide gainful employment to the local people mainly involving SC/ST population.
- v) To create awareness among the local villagers on protection and maintenance of plantation and forest.



## 7. PROPOSED TECHNIQUE:

To achieve the above objectives, it has been proposed to take up ANR Plantation @ 500 seedlings per hectare at a spacing of 2.5 mtr x 2.5 mtr over 4.00 ha. (18 months old seedlings) in the identified degraded forest area of Dhenkiam RF of Tamra Range. The said plantation work shall be undertaken in the 0<sup>th</sup> year (Pre-plantation operation) followed by first year plantation work and maintenance during 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup>, & 10<sup>th</sup> year. The detailed expenditure statement per hectare is enclosed as Annexure-I.

### (A). SURVEY AND DEMARCATION:

The area is surveyed and demarcated in the field with the help of G.P.S. The GPS co-ordinates of the boundary of the site are mentioned in the Map. RCC Pillars of usual size will be posted along the boundary line. This operation will be helpful in future maintenance and management. GPS Map is **enclosed herewith**.

### (B). REGENERATION CLEANING AND TENDING OPERATION:

The operation aims at tending the existing crop silviculturally for better growth. It involves removal of inferior and diseased tree growth. During this operation, climbers etc which interferes with the growth of the existing crop are to be cut. This operation helps sapling to grow better and faster. The site clearance is to be done by cutting and removal of Eupatorium and all other unwanted growth.

The following operation will be carried out during the operation.

- i) Cutting back of individual inferior poles interfering with the growth of better ones.
- ii) Cutting back of malformed and diseased individuals.
- iii) Singling of coppice shoots & retaining healthier ones.
- iv) Cutting of climbers.
- v) Cutting back of high stumps flush to the ground.
- vi) Pruning the branches of the poles up to hand reach.

During 1<sup>st</sup> year operation, climber cutting, high stump cutting, and cutting of shrub, herbs, malformed and diseased plants will be done. In the next two years, cutting of individuals and singling of economically important species will be done.

### (C). PLANTATION:

The area will be stocked by way of raising plantation in ANR with gap Plantation. Taking in to consideration the soil condition, the local habitation and suitability of the site, the following species are selected.

- |  |  |
|--|--|
| 1. <i>Dalbergia latifolia</i> (Sisoo)  | 7. <i>Gmelina arborea</i> (Gambhari)       |
| 2. <i>Pongamia pinnata</i> (Karanja)   | 8. <i>Mangifera indica</i> (Mango)         |
| 3. <i>Emblica officinalis</i> (Amla)   | 9. <i>Artocarpus heterophyllus</i> (Panas) |
| 4. <i>Terminalia belerica</i> (Bahada) | 10. <i>Limonia acidissima</i> (Kaitha)     |
| 5. <i>Terminalia chebula</i> (Harida)  | 11. <i>Syzygium cumini</i> (Jamu)          |
| 6. <i>Acacia catechu</i> (Khair)       |  |



The following operations will be taken up for plantation;

**i) Raising of nursery:**

Seedlings required for plantation shall be raised in a temporary nursery nearer to the planting site and water sources. Nursery work will be started 18 months prior to the year of plantation so that quality seedling stock will be available for plantation. The seedlings shall be raised 10% extra besides the actual requirement to compensate the casualties. Seedlings will be raised in polythene bags of 9" x 5" size following standard nursery practice.

**ii) Alignment and pitting:**

Alignment and pitting will be taken up in the month of March-April, Pits of size 45cm x 45cm x 45cm will be dug maintaining a spacing of 2.5mtr x 2.5mtr @500 seedlings per ha. It is proposed to take up Plantation in the blank patches.

**iii) Actual Planting:**

The seedlings will be planted @ 500 seedlings per ha. in the dug out pits of size 45cm x 45cm x 45cm with a spacing of 2.5mtr x 2.5mtr. Plantation shall be taken up after first regular shower of monsoon and completed by the end of July. Species will be planted as per suitability of the soil condition. NPK/ Bio fertilizer @50gms per plant shall be applied as basal dosage. Anti-termite insecticide shall also be applied to each pit while planting. Casualties if any noticed shall be replaced with the excess seedlings raised for the purpose. During second year also, casualty replacement will be done for which seedlings shall be raised.

**iv) Weeding, Soil working & manuring :**

For establishment and better growth of the planted seedlings, timely weeding, soil working and manuring are necessary. It is proposed to carry out two weedings, soil working and manuring during the first year and second year of plantation and one weeding and soil working during third year. During first year and second year, first weeding and manuring shall be carried out during August-September and the second one during October-November along with soil working. First weeding shall be around the plants and the second will be of strip weeding. The weeding of third year will be around the plants, which will be carried out during August.

After each weeding, soil working will be done around each plant at a radius of 0.5mtr, and manuring of each plant will be done @50grms of NPK/ Bio fertilizer per plant in ring form.



**v) Application of insecticides:**

After planting of good healthy seedlings, the plantation site may cause influx of insects, which usually eat and damage the tender leaves and shoots of the plants. To get rid of such insect attack, application of insecticides will be taken up in required doses at desired intervals. Spraying of insecticides shall be done preferably in a sunny day in the forenoon as per requirement.

**vi) Fire line tracing and maintenance:**

Fire causes heavy loss to the forest & plantation during fire season. To prevent incidence of fire, the area shall be divided in to suitable blocks by tracing fire lines. Boundaries of the plantation patches and these block lines will be scrapped of the growth to a width of 2.0mtr during February-March and the cut back materials and the dry leaves stacked along these lines will be burnt under strict supervision. This operation shall be carried out for three years.

**8. SOIL CONSERVATION MEASURES:**

The site selected for Addl. Compensatory Afforestation is degraded Reserve Forest, undulating, and gullies have been formed due to erosion. So, Soil Conservation Measures like Staggered Trench, Percolation Pit, Contour Trench, Graded earthen bund, LBCD, Wire mesh LBCD, Sub surface Dyke and WHS as per site requirement have been proposed. The cost norm of SMC is enclosed as **Annexure-III.**

**9. FENCING:**

To protect the AR plantation from biotic interference, Bamboo twigs & Thorns fencing is proposed over the identified area of 4.00 ha. in Dhenkiam Reserve Forest of Tamra Range. The total perimeter of the said identified area is 830 RMT (Or, 0.830 Km) length of boundary.

The cost norm for Bamboo twigs & Thorns fencing is enclosed as **Annexure-II.**

**10. WATERING :**

Watering of the plantation will be carried out aided by solar system with Borewell (1 system for 5 ha. plantation) fitted with Drip system. The cost norm is furnished as **Annexure-IV.**



**11. MOTIVATION OF PEOPLE:**

As per Govt. resolution of 2011, the villagers of the adjoining village, i.e. Ludhuni village is to be involved in protection and management of plantation. Before execution of the work, a meeting will be conducted in the above villages and resolution regarding support to plantation activities will be made. To motivate the people in this direction, they will be provided with incentives in shape of different community articles, buildings, and different community amenities of fixed and movable type through entry point activities (EPA). Health camps shall also be organized in the villages.

**12. EXECUTING AGENCY :**

The Divisional Forest Officer, Bonai Division shall execute the work by involving the local VSS mentioned above.

**13. INSPECTION, MONITORING & EVALUATION:**

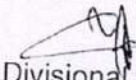
In order to make the Afforestation under this Addl. Compensatory Afforestation Scheme successful, intensive inspection of the plantation by the Forest field staff and the Officers at the Divisional level is necessary. Moreover, frequent monitoring and evaluation shall have to be done at different stages.

**14. REQUIREMENT OF FUNDS:**

For implementation of all prescriptions outlined above ₹ 15,05,600/- (Rupees Fifteen Lakh Five Thousand Six Hundred) only will be required as detailed below.

|    |   |   |   |
|----|---|---|---|
| 1. | ANR Plantation @500 plants per hectare over 4.00 ha. @₹1,50,051/-   | ₹ | 6,00,204.00                                       |
| 2. | Bamboo twigs & Thorns fencing over 0.830 KM (Or, 830 RMT) @₹440.856/- per RMT.  | ₹ | 3,65,910.00                                       |
| 3. | Soil conservation measures structures like staggered trench, percolation pit, contour trench, graded earthen bund, LBCD, wire mesh, LBCD, Sub surface Dyke and Water Harvesting structures = 4.00 ha X ₹39,284/-. | ₹ | 1,57,136.00                                       |
| 4. | Water provision to plantation: Solar system with Bore well (1 system for 5 Ha. Plantation) fitted with Drip system @ ₹2,45,476/- X 1 nos.   | ₹ | 2,45,476.00                                       |
|    | <b>Sub-Total :-</b>   | ₹ | <b>13,68,726.00</b>                               |
| 5. | Entry Point Activity (10%) of the cost  | ₹ | 1,36,873.00                                       |
|    | <b>TOTAL :-</b>   | ₹ | <b>15,05,599.00</b><br>Or,<br><b>15,05,600.00</b> |

(Rupees Fifteen Lakh Five Thousand Six Hundred) only.

  
Divisional Forest Officer,  
Bonai Division.



ANNEXURE-I

ANNEXURE-7

Base Cost Norms for Compensatory Afforestation through Aided Natural Regeneration (ANR) @ 500 Seedlings/Ha.

| WAGE RATE Rs- 311/- PER MANDAY                        |   |                                |               |                      |                        |                     |
|---|---|--------------------------------|---------------|----------------------|------------------------|---------------------|
| Sl. No  | Items of work   | Preferable Period of Execution | No of Mandays | Labour Cost (In Rs.) | Material Cost (In Rs.) | Total cost (In Rs.) |
| <b>0th Year (Advance work) Pre-Planting Operation</b> |   |                                |               |                      |                        |                     |
| 1   | Survey, Demarcation and Pillar posting  | Nov/Dec                        | 2             | 622                  | 0                      | 622                 |
| 2   | Preparation of Treatment Map (Digital Map)  | Nov/Dec                        | 1             | 311                  | 100                    | 411                 |
| 3   | Site preparation  | Nov/Dec                        | 2             | 622                  | 0                      | 622                 |
| 4   | Silvicultural operations including clearance of weed, cutting of climber, High stump cutting, singling of shoots & removal of cut out after drying from the field to blank space.   | Jan/Feb                        | 15            | 4665                 | 0                      | 4665                |
| 5   | Alignment and stacking for digging of pits  | Feb/Mar                        | 1             | 311                  | 0                      | 311                 |
| 6   | Digging of pits (45 cm x 45 cm x 45 cm) in hard and gravelly soil   | Feb/Mar                        | 20            | 6220                 | 0                      | 6220                |
| Total   |   |                                | 41            | 12751                | 100                    | 12851               |
| <b>1st Year/Planting Year</b>                         |   |                                |               |                      |                        |                     |
| 1   | Refilling of pits by altering the dugout soil of the pits, application of organic compounds/ CDM/ FYM & mixing the same perfectly.  | June/Jul                       | 4             | 1244                 | 2500                   | 3744                |
| 2   | Transportation of 10 months old polythene bag seedlings in hired truck /tractor from the permanent/Mega nursery to planting site including Loading & unloading. (Average lead of 10 Kms) & Stacking the seedling @ Rs.6/- Seedling (550 nos.)   | Jul/Aug                        | 0             | 0                    | 3300                   | 3300                |
| 3   | Watering polythene bag seedlings at stacking site of plantation   | Jul/Aug                        | 1             | 311                  | 0                      | 311                 |
| 4   | Conveyance of polythene bag seedlings on head load from the stacking site to individual dugout pits within the planting site, applying insecticide, fertilizer & planting after scooping the soil with other applied materials and pressing the soil perfectly around the planted seedling. | Jul/Aug                        | 11            | 3421                 | 0                      | 3421                |
| 5   | Cost of Fertilizer & Insecticide<br>(a) NPK/ Bio-fertilizer @ 50 gms/plant as basal dose = 25kg @ Rs.30/- per kg = Rs. 750.0<br>(b) Urea/Vermicompost/Mo Khata/any other fertilizer @ Rs. 375.00<br>(c) Insecticide/ Bio pesticide @ 5 gms/plant = 2.5 kg @ Rs.150/- per kg = Rs. 375/-     | Jul/Aug                        | 0             | 0                    | 1500                   | 1500                |
| 6   | Casualty Replacement @ 10% (50 nos.)  | Jul/Aug                        | 1.5           | 466.5                | 0.0                    | 466.5               |
| 7   | 1st weeding & Manuring  | Aug/Sept                       | 5             | 1555                 | 0                      | 1555                |



| Sl. No   | Items of work   | Preferable Period of Execution | No of Mandays | Labour Cost (In Rs.) | Material Cost (In Rs.) | Total cost (In Rs.) |
|--|---|--------------------------------|---------------|----------------------|------------------------|---------------------|
| 8  | 2nd Weeding, Soil working (1mt. diameter around the plants) & Manuring  | Oct/Nov                        | 8             | 2488                 | 0                      | 2488                |
| 9  | Fire line tracing & Inspection path   | Feb/Mar                        | 3             | 933                  | 0                      | 933                 |
| 10   | Watch & Ward including watering as per requirement  | Aug-Mar                        | 8             | 2488                 | 0                      | 2488                |
| Total  |   |                                | 41.5          | 12906.5              | 7300.0                 | 20206.5             |
| 2nd Year Maintenance   |   |                                |               |                      |                        |                     |
| 1  | Transportation of 50 seedlings from Nursery to plantation site including loading, unloading & conveyance by Tractor @ Rs.6/- per seedling   | Jul                            | 0.0           | 0.0                  | 300.0                  | 300.0               |
| 2  | Casualty replacement  | Jul                            | 1.5           | 466.5                | 0.0                    | 466.5               |
| 3  | Cost of Fertilizer & Insecticide:<br>A) Cost of Insecticide/ Bio-pesticide (Thimet/ Furate) @ 5 gms/plant x 25 Kg @ Rs.150/- per kg = Rs.37.50<br>B) Urea/NPK/ Bio-fertilizer/Vermicompost/Mo khata/any other fertilizers Rs.1400/- | July/Aug                       | 0             | 0                    | 1437.5                 | 1437.5              |
| 4  | Weeding (Complete weeding), Manuring & Soil working, (1mt. diameter around the plants)  | Sep/Oct                        | 8             | 2488                 | 0                      | 2488                |
| 5  | Fire line tracing (2 m. wide fire line) & Inspection path   | Feb/Mar                        | 3             | 933                  | 0                      | 933                 |
| 6  | Watch & Ward including watering as per requirement  | Apr/Mar                        | 12            | 3732                 | 0                      | 3732                |
| Total  |   |                                | 24.5          | 7619.5               | 1737.5                 | 9357                |
| 3rd Year Maintenance   |   |                                |               |                      |                        |                     |
| 3  | Cost of Fertilizer Urea/NPK/Bio-fertilizer/Vermicompost/Mo khata/any other fertilizers Rs.1400/-  | July/Aug                       | 0             | 0                    | 1400.0                 | 1400.0              |
| 4  | Weeding (Complete weeding), Manuring & Soil working, (1mt. diameter around the plants)  | Sep/Oct                        | 8             | 2488                 | 0                      | 2488                |
| 5  | Fire line tracing (2 m. wide fire line) & Inspection path   | Feb/Mar                        | 3             | 933                  | 0                      | 933                 |
| 6  | Watch & Ward including watering as per requirement  | Apr/Mar                        | 12            | 3732                 | 0                      | 3732                |
| Total  |   |                                | 23.0          | 7153.0               | 1400.0                 | 8553.0              |
| 4th Year Maintenance   |   |                                |               |                      |                        |                     |
| 1  | Fire line tracing (2 m. wide fire line) & Inspection path   | Feb/Mar                        | 3             | 933                  | 0                      | 933                 |
| 2  | Watch & Ward including watering as per requirement  | Apr/Mar                        | 12            | 3732                 | 0                      | 3732                |
| Total  |   |                                | 15            | 4665                 | 0                      | 4665                |
| 5th Year Maintenance   |   |                                |               |                      |                        |                     |
| 1  | Fire line tracing (2 m. wide fire line over 400 m length)   | Feb/Mar                        | 3.0           | 933.00               | 0                      | 933                 |
| 2  | Watch & Ward including watering as per requirement  | Apr/Mar                        | 12            | 3732.00              | 0                      | 3732                |
| Total  |   |                                | 15.0          | 4665.0               | 0                      | 4665                |
| 6th Year Maintenance   |   |                                |               |                      |                        |                     |
| 1  | Fire line tracing (2 m. wide fire line over 400 m length)   | Feb/Mar                        | 3             | 933.00               | 0                      | 933                 |
| 2  | Watch & Ward including watering as per requirement  | Apr/Mar                        | 12            | 3732.00              | 0                      | 3732                |
| Total  |   |                                | 15.0          | 4665.0               | 0.0                    | 4665.0              |
| 7th Year Maintenance   |   |                                |               |                      |                        |                     |
| 1  | Fire line tracing (2 m. wide fire line over 400 m length)   | Feb/Mar                        | 3             | 933.00               | 0                      | 933                 |
| 2  | Watch & Ward including watering as per requirement  | Apr/Mar                        | 12            | 3732.00              | 0                      | 3732                |
| Total  |   |                                | 15.0          | 4665.0               | 0.0                    | 4665.0              |
| 8th Year Maintenance   |   |                                |               |                      |                        |                     |
| 1  | Fire line tracing (2 m. wide fire line over 400 m length) & cultural operation  | Feb/Mar                        | 3             | 933.00               | 0                      | 933                 |
| 2  | Watch & Ward including watering as per requirement  | Apr/Mar                        | 12            | 3732.00              | 0                      | 3732                |
| Total  |   |                                | 15.0          | 4665.0               | 0.0                    | 4665.0              |
| 9th Year Maintenance   |   |                                |               |                      |                        |                     |
| 1  | Fire line tracing (2 m. wide fire line over 400 m length)   | Feb/Mar                        | 3             | 933.00               | 0                      | 933                 |
| 2  | Watch & Ward including watering as per requirement  | Apr/Mar                        | 12            | 3732.00              | 0                      | 3732                |
| Total  |   |                                | 15.0          | 4665.0               | 0.0                    | 4665.0              |
| 10th Year Maintenance  |   |                                |               |                      |                        |                     |
| 1  | Fire line tracing (2 m. wide fire line over 400 m length)   | Feb/Mar                        | 3             | 933.00               | 0                      | 933                 |
| 2  | Watch & Ward including watering as per requirement  | Apr/Mar                        | 12            | 3732.00              | 0                      | 3732                |
| Total  |   |                                | 15.0          | 4665.0               | 0.0                    | 4665.0              |
| Year wise Abstract of Cost Norm (showing seedling cost separately) |   |                                |               |                      |                        |                     |



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| Sl. No | Items of work | Preferable Period of Execution | No of Mandays                        | Labour Cost (In Rs.) | Material Cost (In Rs.)  | Total cost (In Rs.)                         |                  |
|--------|---------------|--------------------------------|--------------------------------------|----------------------|---|---|------------------|
| Sl. No | Year          | No. person days                | Labour cost @ Rs. 311/- per day (Rs) | Material Cost        | Monitoring, Evaluation, Learning, Documentation and Other Contingency (5%) of (4+5) | Cost of Seedlings @ Rs. 50.31 per seedlings | TOTAL COST       |
| 1      | 2             | 3                              | 4                                    | 5                    | 6   | 7   | 8                |
| 1      | 0th year      | 41                             | 12751.0                              | 100.0                | 549.00  | 0.00  | 13400.00         |
| 2      | 1st year      | 41.5                           | 12906.5                              | 2300.0               | 993.50  | 27671.00                                    | 48871.00         |
| 3      | 2nd year      | 24.5                           | 7619.5                               | 1732.5               | 443.00  | 2516.00                                     | 12316.00         |
| 4      | 3rd year      | 23.0                           | 7153.0                               | 1400.0               | 347.00  | 0.00  | 8900.00          |
| 5      | 4th year      | 15                             | 4665.0                               | 0.0                  | 135.00  | 0.00  | 4800.00          |
| 6      | 5th year      | 15                             | 4665.0                               | 0.0                  | 135.00  | 0.00  | 4800.00          |
| 7      | 6th year      | 15                             | 4665.0                               | 0.0                  | 135.00  | 0.00  | 4800.00          |
| 8      | 7th year      | 15                             | 4665.0                               | 0.0                  | 135.00  | 0.00  | 4800.00          |
| 9      | 8th year      | 15                             | 4665.0                               | 0.0                  | 135.00  | 0.00  | 4800.00          |
| 10     | 9th year      | 15                             | 4665.0                               | 0.0                  | 135.00  | 0.00  | 4800.00          |
| 11     | 10th year     | 15                             | 4665.0                               | 0.0                  | 135.00  | 0.00  | 4800.00          |
|        | <b>Total:</b> | <b>235.0</b>                   | <b>73085.0</b>                       | <b>10537.5</b>       | <b>3277.5</b>   | <b>30187</b>                                | <b>117087.00</b> |

Note:

- 1 Priority must be given to the indigenous local species available nearby to the site of plantation.
- 2 10 % indigenous fruit bearing trees must be preferred to Plantation.
- 3 Site specific Soil conservation work like L.B.C.D, Gully Plugging, Staggered Trench, Contour Trench, Graded Bund, etc. may be taken up
- 4 Chain link fencing can be adopted in the CA plantation taken up outside the forest area and Bamboo twigs fencing may be preferred to CA plantations
- 5 Watering facilities for procurement of water & watering may be adopted as per the availability of water.
- 6 The Cost Norm of various items can be changed with the approval of the concerned BCCPs keeping the overall cost norm fixed for each Financial Year

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Matrix for Model-II A (ANR-500 Plants/ Ha)

| Sl. No.   | Commence ment Year | I     | II    | III   | IV    | V     | VI    | VII   | VIII  | IX    | X     | XI    | XII   | XIII  | XIV  | XV   | XVI  | XVII  | XVIII | XIX   | XX    | XXI | Total Cost |
|-----------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|-----|------------|
| Base Norm |                    | 13400 | 48871 | 12316 | 8900  | 4800  | 4800  | 4800  | 4800  | 4800  | 4800  | 4800  |       |       |      |      |      |       |       |       |       |     |            |
| 1         | 2021-22            | 13400 | 51315 | 13577 | 10303 | 5834  | 6126  | 6432  | 6754  | 7092  | 7446  | 7819  |       |       |      |      |      |       |       |       |       |     | 136098     |
| 2         | 2022-23            |       | 14070 | 53881 | 14356 | 10818 | 6126  | 6032  | 6754  | 7092  | 7447  | 7818  | 8210  |       |      |      |      |       |       |       |       |     | 142904     |
| 3         | 2023-24            |       |       | 14774 | 56575 | 14969 | 11359 | 6432  | 6754  | 7092  | 7447  | 7819  | 8210  | 8621  |      |      |      |       |       |       |       |     | 150051     |
| 4         | 2024-25            |       |       |       | 15513 | 59404 | 15717 | 11827 | 6754  | 7092  | 7447  | 7819  | 8210  | 8619  | 9052 |      |      |       |       |       |       |     | 157554     |
| 5         | 2025-26            |       |       |       |       | 16289 | 62374 | 16503 | 12523 | 7092  | 7447  | 7819  | 8210  | 8621  | 9050 | 9505 |      |       |       |       |       |     | 165433     |
| 6         | 2026-27            |       |       |       |       |       | 17103 | 65493 | 17328 | 17149 | 7447  | 7819  | 8210  | 8621  | 9052 | 9503 | 9978 |       |       |       |       |     | 173705     |
| 7         | 2027-28            |       |       |       |       |       |       | 17958 | 68768 | 18194 | 13806 | 7819  | 8210  | 8621  | 9052 | 9505 | 9978 | 10479 |       |       |       |     | 182390     |
| 8         | 2028-29            |       |       |       |       |       |       |       | 18846 | 72206 | 19104 | 14496 | 8210  | 8621  | 9052 | 9505 | 9980 | 10477 | 11003 |       |       |     | 191510     |
| 9         | 2029-30            |       |       |       |       |       |       |       |       | 19759 | 75816 | 20055 | 10221 | 8621  | 9052 | 9505 | 9980 | 10479 | 11001 | 11553 |       |     | 201086     |
| 10        | 2030-31            |       |       |       |       |       |       |       |       |       | 20763 | 79607 | 21062 | 11982 | 9052 | 9505 | 9980 | 10479 | 11003 | 11551 | 12121 |     | 211141     |

APCCF (Forest Diversion & NO, FC Act)



# ANNEXURE-II

| Fencing Model F-1  |  |                                |                                 |               |                    |                          |
|--|--|--------------------------------|---------------------------------|---------------|--------------------|--------------------------|
| Fencing for Compensatory Plantation raised inside the Forest Areas using Bamboo Twigs & Thorns |  |                                |                                 |               |                    |                          |
| WAGE RATE Rs- 311/- PER DAY  |  |                                |                                 |               |                    |                          |
| Sl. No   | Items of work  | Preferable Period of Execution | Man days                        | Wages         | Material cost (Rs) | Total Cost (Rs. per Ha.) |
| 0th Year Maintenance   |  |                                |                                 |               |                    |                          |
| 1  | NIL  |                                | 0                               | 0             | 0                  | 0                        |
| 1st Year Maintenance   |  |                                |                                 |               |                    |                          |
| 1  | Taking an average perimeter of 250 Rmt/Ha. @ 95.85/ mt. (Half bundle Bamboo Twigs/mt @ 120/Bundle)<br>Labour: Material = 40:60 (approx)  | Sept./Oct                      | 30                              | 9330          | 14133              | 23463.0                  |
| 2  | Bamboo Poles of 8" height at a distance of 2mt spacing, to be fixed (2" under soil & 2" above soil)<br>250/2 = 125*1 = 126 Nos. of Bamboo Poles<br>1 Bamboo (approx) 24" height = 3 poles<br>126/3 = 42 Bamboos @ 200/Bamboo | Sept./Oct                      |                                 | 0             | 8400               | 8400.0                   |
| 3  | Preparation of Bamboo poles, Digging of holes of 2 ft. depth & fixing Bamboo poles @ 20 poles/ MD  | Sept./Oct                      | 6.5                             | 2021.5        |                    | 2021.5                   |
| 4  | Cost of Bamboo for tying the Bamboo twigs row fence with double side two strand Bamboo batten (One 6" above ground and other one 4 ft. above ground)<br>(250x2)/ 24 = 21 Bamboo @ 200/ Bamboo                                | Sept./Oct                      |                                 | 0             | 4200               | 4200.0                   |
| 5  | Making Bamboo batten, Finishing the Batten & Tying the same on double strand on Coir rope etc. @ Rs.117/Bmt.   | Sept./Oct                      | 9                               | 2799          |                    | 2799.0                   |
| 6  | Cost of coir rope @ Rs. 0.125 kg/ Rmt<br>500x 0.125 kg = 62.5 kg @ Rs.70/Rp  | Sept./Oct                      |                                 | 0             | 4375               | 4375.0                   |
| 7  | Making one Bamboo Twigs gate with Bamboo frame   |                                |                                 | 0             | 500.5              | 500.5                    |
| TOTAL  |  |                                | 45.5                            | 14150.5       | 31600.5            | 45759.0                  |
| Rate per running mt. 45759/ 250 = 183/Rmt  |  |                                |                                 |               |                    |                          |
| 2nd Year Maintenance   |  |                                |                                 |               |                    |                          |
| 1  | Repair & Maintenance of Bamboo Twigs fence including Material cost   | Feb./Mar                       | 20                              | 6220          | 1500               | 7720                     |
| Rate per running mt. 7720/ 250 = 30.88 or say Rs. 31-Rmt                                       |  |                                |                                 |               |                    |                          |
| 3rd Year Maintenance   |  |                                |                                 |               |                    |                          |
| 1  | Repair & Maintenance of Bamboo Twigs fence including Material cost   | Feb./Mar                       | 20                              | 6220          | 5675               | 11895                    |
| Rate per running mt. 11895/ 250 = 47.58 or say Rs. 48-Rmt                                      |  |                                |                                 |               |                    |                          |
| 4th Year Maintenance   |  |                                |                                 |               |                    |                          |
| 1  | Repair & Maintenance of Bamboo Twigs fence including Material cost   | Feb./Mar                       | 20                              | 6220          | 5675               | 11895                    |
| Rate per running mt. 11895/ 250 = 47.58 or say Rs. 48-Rmt                                      |  |                                |                                 |               |                    |                          |
| 5th Year Maintenance   |  |                                |                                 |               |                    |                          |
| 1  | Repair & Maintenance of Bamboo Twigs fence including Material cost   | Feb./Mar                       | 20                              | 6220          | 5675               | 11895                    |
| Rate per running mt. 11895/ 250 = 47.58 or say Rs. 48-Rmt                                      |  |                                |                                 |               |                    |                          |
| Abstract   |  |                                |                                 |               |                    |                          |
| Sl. No   | Year   | No. person days                | Labour cost @ Rs. 311/- per day | Material Cost | Total cost (Rs.)   |                          |
| 1  | 0th year   | 0.0                            | 0.0                             | 0.0           | 0.0                |                          |
| 2  | 1st year   | 45.5                           | 14150.5                         | 31600.5       | 45759.0            |                          |
| 3  | 2nd year   | 20.0                           | 6220.0                          | 1500.0        | 7720.0             |                          |
| 4  | 3rd year   | 20.0                           | 6220.0                          | 5675.0        | 11895.0            |                          |
| 5  | 4th year   | 20.0                           | 6220.0                          | 5675.0        | 11895.0            |                          |
| 6  | 5th year   | 20.0                           | 6220.0                          | 5675.0        | 11895.0            |                          |
| Total:   |  | 125.5                          | 39030.5                         | 50133.5       | 89164.0            |                          |

  
A.P.C.F. (Forest Diversion & NO, FC Act)



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Matrix for Model-F- I Fencing (Bamboo Twig)

| Sl. NO. | Commence ment Year | I | II    | III   | IV    | V     | VI    | VII   | VIII  | IX    | X     | XI    | XII   | XIII  | XIV   | XV    | XVI | In Rupees<br>Total Cost |
|---------|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------------------------|
|         | Base Norm          | 0 | 45759 | 7720  | 11895 | 11895 | 11895 |       |       |       |       |       |       |       |       |       |     |                         |
| 1       | 2021-22            | 0 | 48047 | 8511  | 13770 | 14458 | 15181 |       |       |       |       |       |       |       |       |       |     | 99557                   |
| 2       | 2022-23            |   | 0     | 50449 | 8037  | 14459 | 15181 | 15940 |       |       |       |       |       |       |       |       |     | 104966                  |
| 3       | 2023-24            |   |       | 0     | 52971 | 9384  | 15182 | 15940 | 16737 |       |       |       |       |       |       |       |     | 110214                  |
| 4       | 2024-25            |   |       |       | 0     | 55020 | 9853  | 15941 | 16737 | 17574 |       |       |       |       |       |       |     | 115725                  |
| 5       | 2025-26            |   |       |       |       | 0     | 58401 | 10345 | 15738 | 17574 | 18453 |       |       |       |       |       |     | 121512                  |
| 6       | 2026-27            |   |       |       |       |       | 0     | 61321 | 10863 | 17575 | 18453 | 19376 |       |       |       |       |     | 127588                  |
| 7       | 2027-28            |   |       |       |       |       |       | 0     | 64287 | 11405 | 18454 | 19376 | 20345 |       |       |       |     | 133968                  |
| 8       | 2028-29            |   |       |       |       |       |       |       | 0     | 67606 | 11976 | 19377 | 20345 | 21362 |       |       |     | 140656                  |
| 9       | 2029-30            |   |       |       |       |       |       |       |       | 0     | 70985 | 12575 | 20346 | 21362 | 22430 |       |     | 147699                  |
| 10      | 2030-31            |   |       |       |       |       |       |       |       |       | 0     | 74555 | 13264 | 21363 | 22430 | 23552 |     | 155084                  |

*[Signature]*

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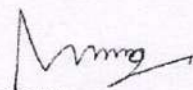
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**ANNEXURE-III**

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| Annexure-11  |  |                                |            |
|--|--|--------------------------------|------------|
| Cost Norms for creation of Compensatory Afforestation with Stabilization of Soil & Conservation of Moisture (1000) |  |                                |            |
| WAGE RATE Rs- 311/- PER DAY  |  |                                |            |
| Sl.No  | Item of Works  | Preferable Period of Execution | Total Cost |
| 0th Year (Pre-Planting Operation)  |  |                                |            |
| 1  | Nil  |                                | 0          |
| 1st Year   |  |                                |            |
| 2  | Soil Conservation measure structures like Staggered Trench, Percolation pit, Contour trench, Graded earthen bund, LBCD, Wire mesh LBCD, Sub surface Dyke & WHS as per the slope & site requirement on LS | Apr/Sept.                      | 20,215     |
| 2nd Year   |  |                                |            |
| 3  | Maintenance of SMC structures @ 15 % of initial year cost  | Apr/Jul                        | 3,032      |
| 3rd Year   |  |                                |            |
| 4  | Maintenance of SMC structures @ 15 % of initial year cost  | Apr/Jul                        | 3,032      |
| 4th Year   |  |                                |            |
| 5  | Maintenance of SMC structures @ 15 % of initial year cost  | Apr/Jul                        | 3,032      |
| 5th Year   |  |                                |            |
| 5  | Maintenance of SMC structures @ 15 % of initial year cost  | Apr/Jul                        | 3,032      |
| Total  |  |                                | 32,343.0   |

| Abstract |          |                 |                                 |               |                  |
|----------|----------|-----------------|---------------------------------|---------------|------------------|
| Sl. No   | Year     | No. person days | Labour cost @ Rs. 311/- per day | Material Cost | Total cost (Rs.) |
| 1        | 0th year |                 |                                 |               |                  |
| 2        | 1st year | 0.0             | 0.0                             | 0.0           | 0.0              |
| 3        | 2nd year | 0.0             | 0.0                             | 20,215.0      | 20,215.00        |
| 4        | 3rd year | 0.0             | 0.0                             | 3,032.00      | 3,032.00         |
| 5        | 4th year | 0.0             | 0.0                             | 3,032.00      | 3,032.00         |
| 6        | 5th year | 0.0             | 0.0                             | 3,032.00      | 3,032.00         |
| Total    |          | 0.00            | 0.00                            | 32,343.0      | 32,343.0         |

Different types of SMC structures may be taken up as per the scope & requirements of the plantation site out of the design & specification of different structures annexed along this document.

  
APCCF (Forest Diversion & NO. FC Act)



Matrix for (SMC)

| Sl. NO. | Commence ment Year | I | II    | III   | IV    | V     | VI    | VII   | VIII  | IX    | X     | XI    | XII  | XIII | XIV  | XV   | XVI | Total Cost |
|---------|--------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-----|------------|
|         | Base Norm          | 0 | 20215 | 3032  | 3032  | 3032  | 3032  |       |       |       |       |       |      |      |      |      |     |            |
| 1       | 2021-22            | 0 | 21226 | 3342  | 3510  | 3655  | 3670  |       |       |       |       |       |      |      |      |      |     | 35633      |
| 2       | 2022-23            |   | 0     | 22287 | 3509  | 3686  | 3669  | 4064  |       |       |       |       |      |      |      |      |     | 37415      |
| 3       | 2023-24            |   |       | 0     | 23401 | 3684  | 3670  | 4062  | 4267  |       |       |       |      |      |      |      |     | 39284      |
| 4       | 2024-25            |   |       |       | 0     | 24571 | 3868  | 4064  | 4265  | 4480  |       |       |      |      |      |      |     | 41248      |
| 5       | 2025-26            |   |       |       |       | 0     | 25620 | 4061  | 4267  | 4473  | 4704  |       |      |      |      |      |     | 43310      |
| 6       | 2026-27            |   |       |       |       |       | 0     | 27090 | 4264  | 4480  | 4702  | 4939  |      |      |      |      |     | 45475      |
| 7       | 2027-28            |   |       |       |       |       |       | 0     | 28445 | 4477  | 4704  | 4937  | 5186 |      |      |      |     | 47749      |
| 8       | 2028-29            |   |       |       |       |       |       |       | 0     | 29867 | 4701  | 4939  | 5184 | 5445 |      |      |     | 50136      |
| 9       | 2029-30            |   |       |       |       |       |       |       |       | 0     | 31260 | 4936  | 5185 | 5443 | 5717 |      |     | 52642      |
| 10      | 2030-31            |   |       |       |       |       |       |       |       |       | 0     | 32928 | 5183 | 5445 | 5715 | 6005 |     | 55274      |

*[Signature]*  
APCCF (Forest Division & NO, FC Act)



**ANNEXURE-IV**

| Watering Model-W-I   |  |  |                 |              |
|--|--|--|-----------------|--------------|
| Watering provision to CA Plantation  |  |  |                 |              |
| Solar system with Bore well (1 system for 5 Ha Plantation) fitted with Drip system, Wage rate @ Rs.311/- |  |  |                 |              |
| Year of Installation (0th Year)  |  |  |                 |              |
| 1  | Cost of Borewell   |  | 1,50,000        |              |
| 2  | Installation of Solar panel & other System                                       |  | 3,00,000        |              |
| 3  | Cost of 0.5 HP submersible motor with accessories                                |  | 50,000          |              |
| 4  | Water Storage Tanks/ Flexible pipes  |  | 15,000          |              |
| 5  | Cost of laying Drip system including all accessories, fittings etc. with 12% GST |  | 3,02,431        |              |
| <b>Total</b>   |  |  | <b>8,17,431</b> |              |
| 6  | Cost of Water & watering per Ha. (8,17,431/5) = Rs. 1,63,486/-                   |  |                 | 1,63,486     |
| 1st Year Watering  |  |  |                 |              |
| 7  | No maintenance required  |  |                 | 0            |
| 2nd Year Watering  |  |  |                 |              |
| 8  | Maintenance of system @ 5% of initial cost of installation                       |  |                 | 8,174        |
| <b>Total</b>   |  |  |                 | <b>8,174</b> |
| 3rd Year Watering  |  |  |                 |              |
| 9  | Maintenance of system @ 5% of initial cost of installation                       |  |                 | 8,174        |
| <b>Total</b>   |  |  |                 | <b>8,174</b> |
| 4th Year Watering  |  |  |                 |              |
| 10   | Maintenance of system @ 5% of initial cost of installation                       |  |                 | 8,174        |
| <b>Total</b>   |  |  |                 | <b>8,174</b> |
| 5th Year Watering  |  |  |                 |              |
| 11   | Maintenance of system @ 5% of initial cost of installation                       |  |                 | 8,174        |
| <b>Total</b>   |  |  |                 | <b>8,174</b> |
| <b>Total</b>   |  |  |                 | <b>0,174</b> |

| Abstract      |          |                 |                                 |               |
|---------------|----------|-----------------|---------------------------------|---------------|
| Sl. No        | Year     | No. person days | Labour cost @ Rs. 311/- per day | Material Cost |
| 1             | 0th year |                 |                                 |               |
| 2             | 1st year | 0               | 0.0                             | 163486.0      |
| 3             | 2nd year | 0               | 0.0                             | 0.0           |
| 4             | 3rd year | 0               | 0.0                             | 8174.0        |
| 5             | 4th year | 0               | 0.0                             | 8174.0        |
| 6             | 5th year | 0               | 0.0                             | 8174.0        |
| <b>Total:</b> |          | <b>0</b>        | <b>0</b>                        | <b>196182</b> |

APCCF (Forest Diversion & NO, FC Act)



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Matrix for Watering W1 (Solar Borewell) fitted with Drip System (per Ha)

| Sl. NO. | Commence ment Year | I      | II     | III    | IV     | V      | VI     | VII    | VIII   | IX     | X      | XI    | XII   | XIII  | XIV   | XV    | XVI | Total Cost |
|---------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-----|------------|
|         | Base Norm          | 163486 | 0      | 8174   | 8174   | 8174   | 8174   |        |        |        |        |       |       |       |       |       |     |            |
| 1       | 2021-22            | 163486 | 0      | 9011   | 9465   | 9935   | 30758  |        |        |        |        |       |       |       |       |       |     | 222653     |
| 2       | 2022-23            |        | 171650 | 0      | 9462   | 9936   | 10432  | 32255  |        |        |        |       |       |       |       |       |     | 233786     |
| 3       | 2023-24            |        |        | 180243 | 0      | 9535   | 10433  | 10554  | 33911  |        |        |       |       |       |       |       |     | 245476     |
| 4       | 2024-25            |        |        |        | 189755 | 0      | 10432  | 10555  | 11502  | 35607  |        |       |       |       |       |       |     | 257751     |
| 5       | 2025-26            |        |        |        |        | 198718 | 0      | 10954  | 11503  | 12077  | 37387  |       |       |       |       |       |     | 270639     |
| 6       | 2026-27            |        |        |        |        |        | 208654 | 0      | 11502  | 12078  | 12681  | 39756 |       |       |       |       |     | 284171     |
| 7       | 2027-28            |        |        |        |        |        |        | 219037 | 0      | 12077  | 12682  | 13315 | 41219 |       |       |       |     | 298380     |
| 8       | 2028-29            |        |        |        |        |        |        |        | 230041 | 0      | 12681  | 13316 | 13982 | 43780 |       |       |     | 313299     |
| 9       | 2029-30            |        |        |        |        |        |        |        |        | 241543 | 0      | 13315 | 13982 | 14680 | 45444 |       |     | 328964     |
| 10      | 2030-31            |        |        |        |        |        |        |        |        |        | 253520 | 0     | 13982 | 14681 | 15414 | 47716 |     | 345412     |

*[Signature]*  
APCCF (Forest Division & NO, FC Act)





ANNEXURE V

# ବନାଞ୍ଚଳ ଅଧିକାରୀ କି କାର୍ଯ୍ୟାଳୟ ତାମ୍ରା ବନାଞ୍ଚଳ

OFFICE OF THE FOREST RANGE OFFICER, TAMRA FOREST RANGE  
ATPO: GURUNDIA, DIST: SUNDERGARH, STATE: ODISHA

Memo No.: 1051 / Dated, Tamra, the 28th July, 2023

To

The Divisional Forest Officer,  
Bonai Forest Division, Bonai  
Dist: Sundergarh.

Sub: Submission of Topo and GPS map of degraded Forest land over 4.00 ha. (to accommodate 1758 nos. of seedlings) identified in Dhenkiam R.F. under Tamra Forest Range under Bonai Forest Division against approach road from Jumka-Pathiriposhi Pahar Iron Ore Block of M/s Rungta Mines Ltd. to existing Koira-Belkudar-Patmunda Road in Sundargarh District, Odisha.

Ref: - Your Office Memo No-4349/6F-(Mg.)Dt-26.05.2023.

Sir,

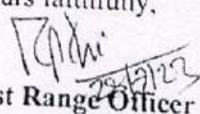
With reference to the subject cited above, I am submitting herewith the proposal for plantation over 4.00 ha. of degraded forest land inside Dhenkiam R.F. having canopy density below 0.4 approx. required for additional compensatory afforestation on the ANR model @500 nos plants per ha for 1758 nos of seedlings, over 4.00 ha of forest land coming under Bonei Forest Division in Sundargarh District. Plant species such as; Neem, Karanja, Panasa, Bamboo, Bara Aswastha, Mango etc. are suitable for the ANR plantation over the identified degraded forest land of 4.00 ha. The findings are given below:

1. The identified degraded forest land is coming under Dhenkiam R.F. and Compartment No. SWC Compt./DM-13 under Tamra Forest Range under Bonai Forest Division.
2. Some Forest Species standing in scattered manner in the boundary line of the identified degraded Forest. Separate map with GPS reading of the site enclosed herewith.
3. RCC pillars were posted and numbered serially.
4. Canopy of the vegetation (density) is less than 0.4 (approx.) and species found such as Sal, Asan, Karda, Kurei, Bheru, Mae, Kendu etc. in this selected degraded area.
5. The area is suitable for ANR plantation @500 per Ha..
6. The area is suitable for Plantation in management point of view and SMC measures may be taken up.
7. Yes, the area is free from encroachment and encumbrances and not included under FRA '2006'.
8. No, the area has not been allotted previously for any other project.
9. GPS Map enclosed.
10. The length of the boundary of the identified degraded forest land for fencing is coming 830 meters (approx.).
11. Sandy loam and stony in some patches.
12. The adjoining village of the identified area North-Ludhuni, East- River Brahamani South-Dhenkiam RF West -Dhenkiam RF.
13. SWC Compt. /DM-13
14. Yes, a masonry sign board is fixed at the identified degraded Forest Land.

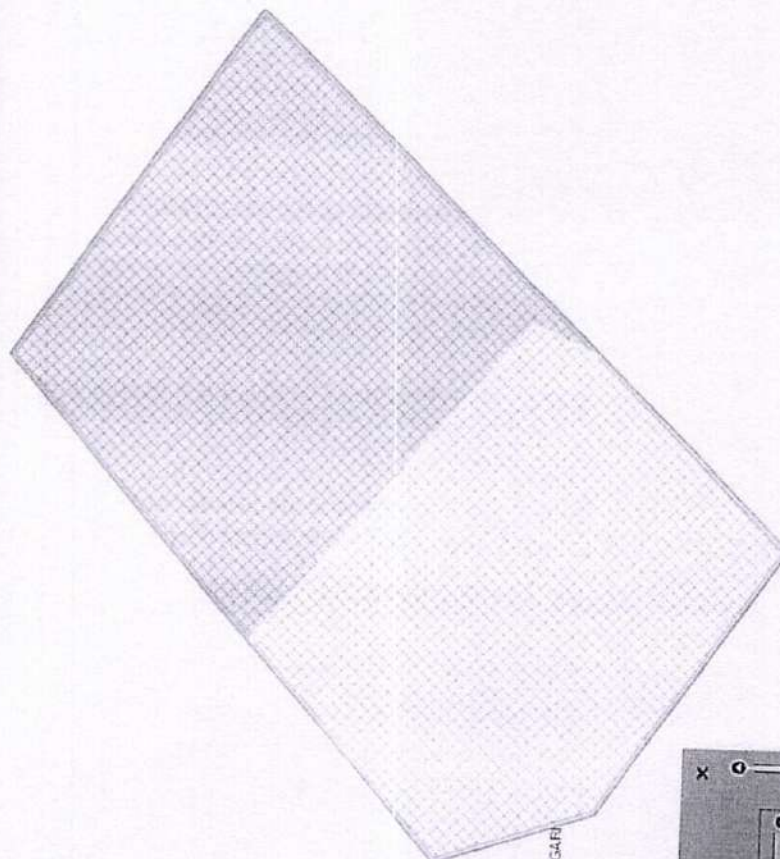
This is for favour of your kind information and necessary action.

Encl: As above.

Yours faithfully,

  
Forest Range Officer  
Tamra Range



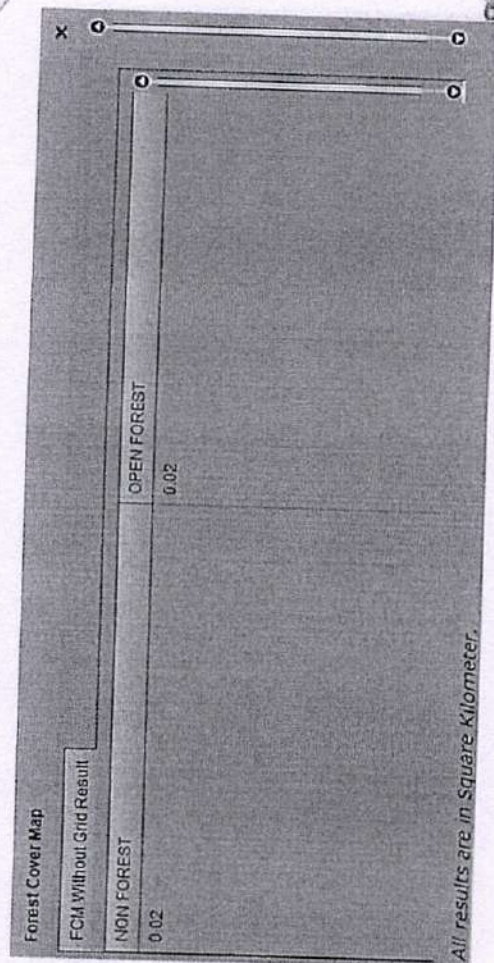
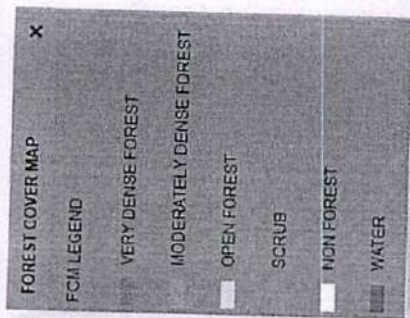


SUNDARGAR

ORISSA

Lat : 21.520 Long : 84.850

Scale: 1:1885



All results are in Square Kilometer.

Divisional Forest Officer  
Bonai Division

Shubod  
Dh

Forester

Ghaudunguri Section Forest Range Officer  
Tamra Range



# CERTIFICATE ON DSS ANALYSIS FOR CA/ACA/PCA


This is to certify that DSS Analysis of land identified for CA/ ACA/ PCA and subsequent ground truthing have been done. The outcome is as mentioned below:

Some training have been done. The outcome is as mentioned below:

| Sl. No | Name of Range | Name of the Forest Block (RF/PREF/PF/DPF/Revenue Forest) | Area identified for CA/ACA/PCA (in ha.) | Classification of identified land (in ha.) |                         |             |            |       |       | Area suitable for plantation |             |            |       | Plantation Model (AR/ANR) | Remark                              |       |
|--------|---------------|--|---|--|-------------------------|-------------|------------|-------|-------|------------------------------|-------------|------------|-------|---------------------------|-------------------------------------|-------|
|        |               |  |   | Very Dense Forest                          | Moderately Dense Forest | Open Forest | Non-Forest | Scrub | Water | Total                        | Open Forest | Non-Forest | Scrub |                           |                                     | Total |
| 1      | 2             | 3  | 4                                       | 5  | 6                       | 7           | 8          | 9     | 10    | 11                           | 12          | 13         | 14    | 15                        | 16                                  | 17    |
| 1      | Tamra         | Dhenkiam RF  | 4.000                                   | -  | 0                       | 2.0         | 2.0        | -     | -     | 4.0                          | 2.0         | 2.0        | -     | 4.0                       | ANR @500 plants / ha. over 4.00 ha. |       |

Countersigned

RCCF, Rourkela Circle

  
Divisional Forest Officer  
Bonai Forest Division



**JUSTIFICATION FOR TRANSPORTATION OF IRON ORE THROUGH A DEDICATED APPROACH ROAD FROM JUMKA PATHIRIPOSHI PAHAR IRON ORE BLOCK OF M/s RUNGTA MINES LTD. TO DIFFERENT LOCATIONS /RAILWAY SIDINGS**

Jumka Pathiriposhi Pahar Iron Ore auctioned Block is located in an isolated place and difficult to access as there is no motorable road connected to the mine for the day to day activity. The iron ore to be produced from the mines will be dispatched to different destinations as per end users requirement to cater to the needs of the industries at various locations. There is no dedicated public railway siding to handle the entire ore dispatch from the mine to different destinations. The public Railway sidings are located at far distances in various directions i.e., Barbil railway siding-36.7 km, Bolani railway siding-36.0 km, Banspani railway siding -31.0km, Barsuan railway siding-10.7km and Jaroli railway siding -26.6 km from the mine (Aerial distance.) It is very difficult to connect conveyor belts to all public railway sidings to cater to the requirements of end users which are located at multiple locations. Also it is not permissible under OMPTS (Amendment) Rules, 2021 for stacking of ore outside the lease hold area and also these public railway sidings only permit loading of rakes by dump and load basis.

The difficulties in implementing/installation of conveyor belts connecting to all railway sidings are as follows:

- The topography of the path to railway sidings surrounding the Jumka mining lease will cross undulating/hilly terrain having high altitudes which technically does not permit laying conveyor belts and that is the reason that no conveyor belt system or railway siding could come up in any of the existing mine. The details topography map and the Google earth map showing the ground profile is attached as **Annexure -I &II** respectively.
- There will be a number of belt conveyors to be installed to connect all public sidings. only one belt conveyor from mine to any particular railway siding cannot cater to the requirements of conveying the material to all destinations including road movement.
- It is difficult for laying out multiple numbers of conveyors by all lessees surrounding the Jumka mines connecting all public sidings will be crossing criss-cross and not be possible in such terrains. (The details of conveyor route to different public railway sidings are enclosed as **Annexure-III**)
- Number of fresh mining leases in the surrounding vacant mineralized area is in fast track to be auctioned by the State Govt. This will hinder the route of conveyor belt.
- The route from Jumka mines to Barbil railway siding will encounter various back to back mining leases i.e., KJST Kanther-Koira, B.S. Mishra Mines, Teherai, Bhanjapali, R.S. Sindhu, National enterprise, Nuagaon, Guali and Kedesala mining

*Hem*



block. The same leases will be crossed by conveyor belt upto Bolani railway siding also.

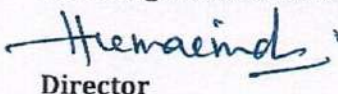
- Numbers of Forest diversion proposals may have to be applied for laying conveyor belts to all public railway sidings for effective transportation of materials.
- Acquisition of private ST land is not allowed in Odisha under LARR Act, 2013 for a mine or its ancillary activities.
- Further, public consultation /NOC from different local bodies will be a herculean task for multi directional conveyor belt laying.

Thus, considering the above mentioned bottlenecks in multi-directional laying of conveyor belts and for a smooth and uninterrupted transport of iron ore from the mines to different Railway sidings/destinations, the user agency has applied the Forest diversion proposal over an area of **13.077** ha. (virgin forest land) outside the mining lease for construction of a dedicated approach road over a length of 12.291 Km ( 12.135 Km in Forest land and 0.156 Km in Non-forest Govt. land) to connect the Jumka-Pathiriposhi Pahar Iron Ore Block to the nearest existing Koira-Belkudar-Patmunda road which is connected to the NH-520 (4 lane road).

The MoEF&CC, Integrated Regional office, Bhubaneswar on consideration of the justification of the proposal has granted the **Stage-I/In-Principle** approval for construction of a dedicated approach road for transport of iron ore from the Jumka mines (vide file No. 5-ORC627/2024-BHU, dated 25.01.2024).

The road proposed by the user agency for transportation of the minerals from mines to meet at Koira-Belkudar-Patmunda road will be a 'by pass' road of two lane (metal road). Transportation of ore would be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore/dust would take place. This road will be used for transportation of mineral to different end use plants via different public railway sidings/national Highway. Judicious water sprinkling and PUC complied trucks will be practiced on this road to minimize fugitive dust generation during transportation.

**For Rungta Mines Limited**

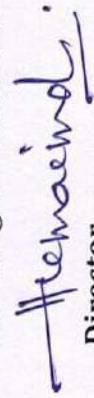


**Director**



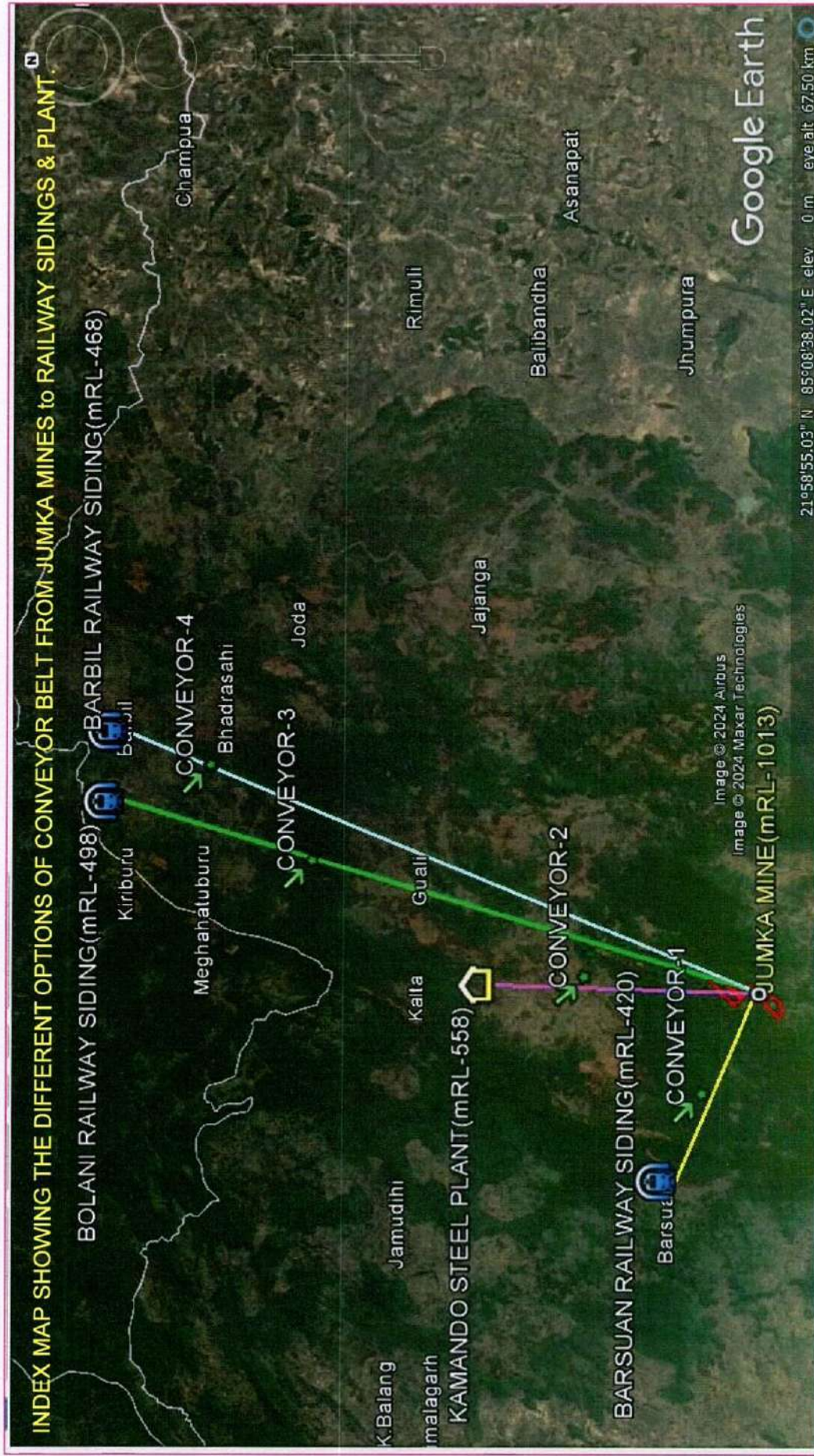
| Details of Conveyor Route from Jumka Mines to Steel Plant & Railway Sidings |   |   |          |   |
|---|---|---|----------|---|
| Sl. No.   | FROM                                    | TO  | DISTANCE | REMARKS   |
| CONVEYOR 1  | Jumka Pathiriposhi Pahar Iron Ore Block | Barsuan Railway Siding                          | 10.7 KM  | The Route Passing through SAIL-Barsuan Mines, Torha & Sarkanda Reserve Forest and PVT (SC, ST) land.  |
| CONVEYOR 2  | Jumka Pathiriposhi Pahar Iron Ore Block | Kamanda Steel Plant<br>M/s Rungta Mines Limited | 14.0 KM  | The Route Passing through various mines (Kedesala, Tentuldihi-OMM, ESSEL-Koira & Orahuri-OMM), Sarkanda Reserve Forest and PVT (SC, ST) land.   |
| CONVEYOR 3  | Jumka Pathiriposhi Pahar Iron Ore Block | Bolani Railway Siding                           | 36.0 KM  | The Route Passing through various mines (Kedesala, KJST, Kanther-Koira, Nuagaon & Guali), Reserve Forest (Sidhamath, Mendhamaruni & Bhabani Pahar) and PVT (SC, ST) land.   |
| CONVEYOR 4  | Jumka Pathiriposhi Pahar Iron Ore Block | Barbil Railway Siding                           | 36.7 KM  | The Route Passing through various mines (Kedesala, KJST, Kanther-Koira, B.S. Mishra, Tehrei, Bhanjapali-OMM, R.S. Sindhu, National Enterprises, Nuagaon & Guali), Reserve Forest (Sidhamath, Mendhamaruni & Bhabani Pahar) and PVT (SC, ST) land. |

For Rungta Mines Limited

  
Director



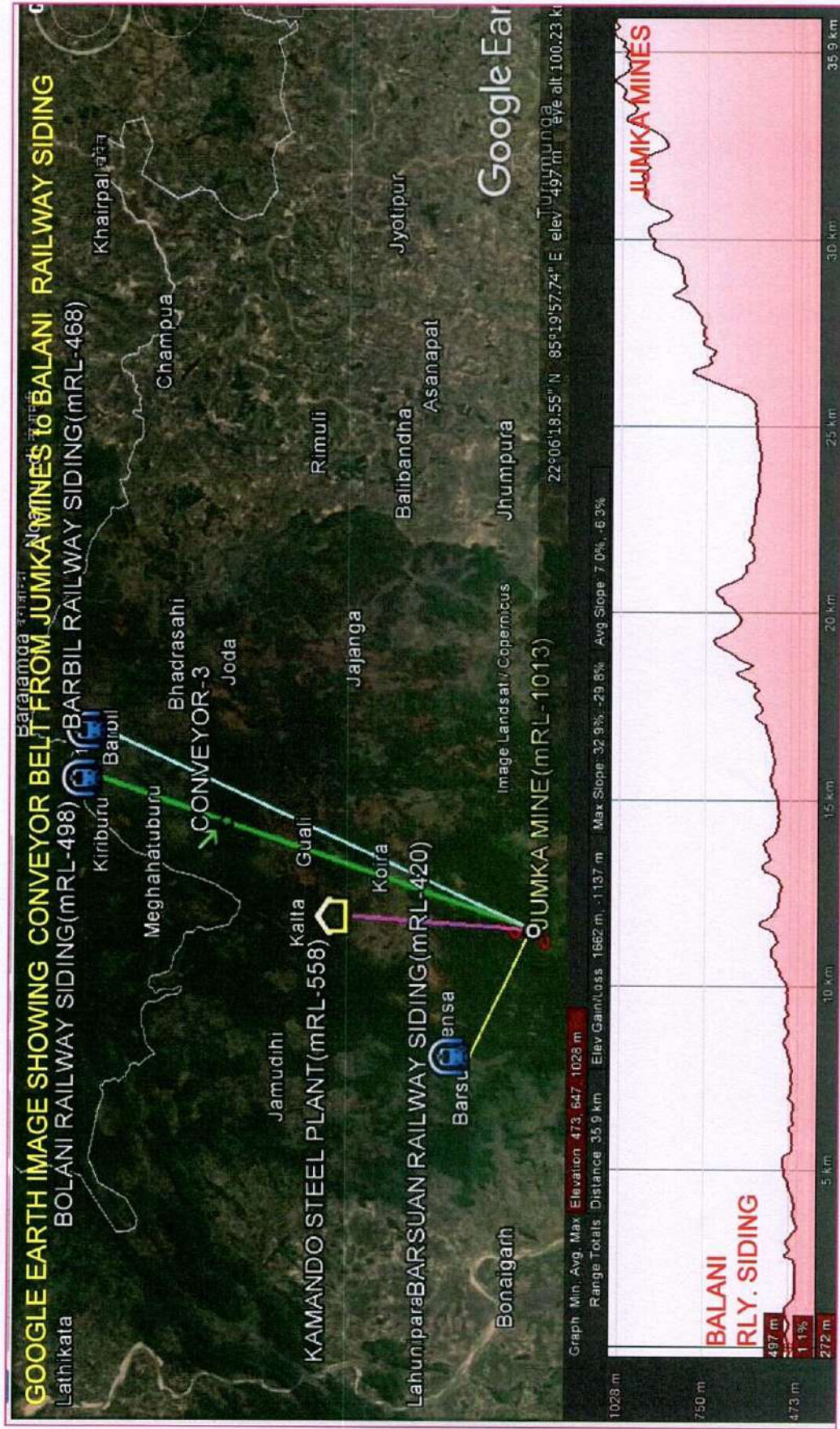
INDEX MAP SHOWING THE DIFFERENT OPTIONS OF CONVEYOR BELT FROM JUMKA MINES TO RAILWAY SIDINGS & PLANT.





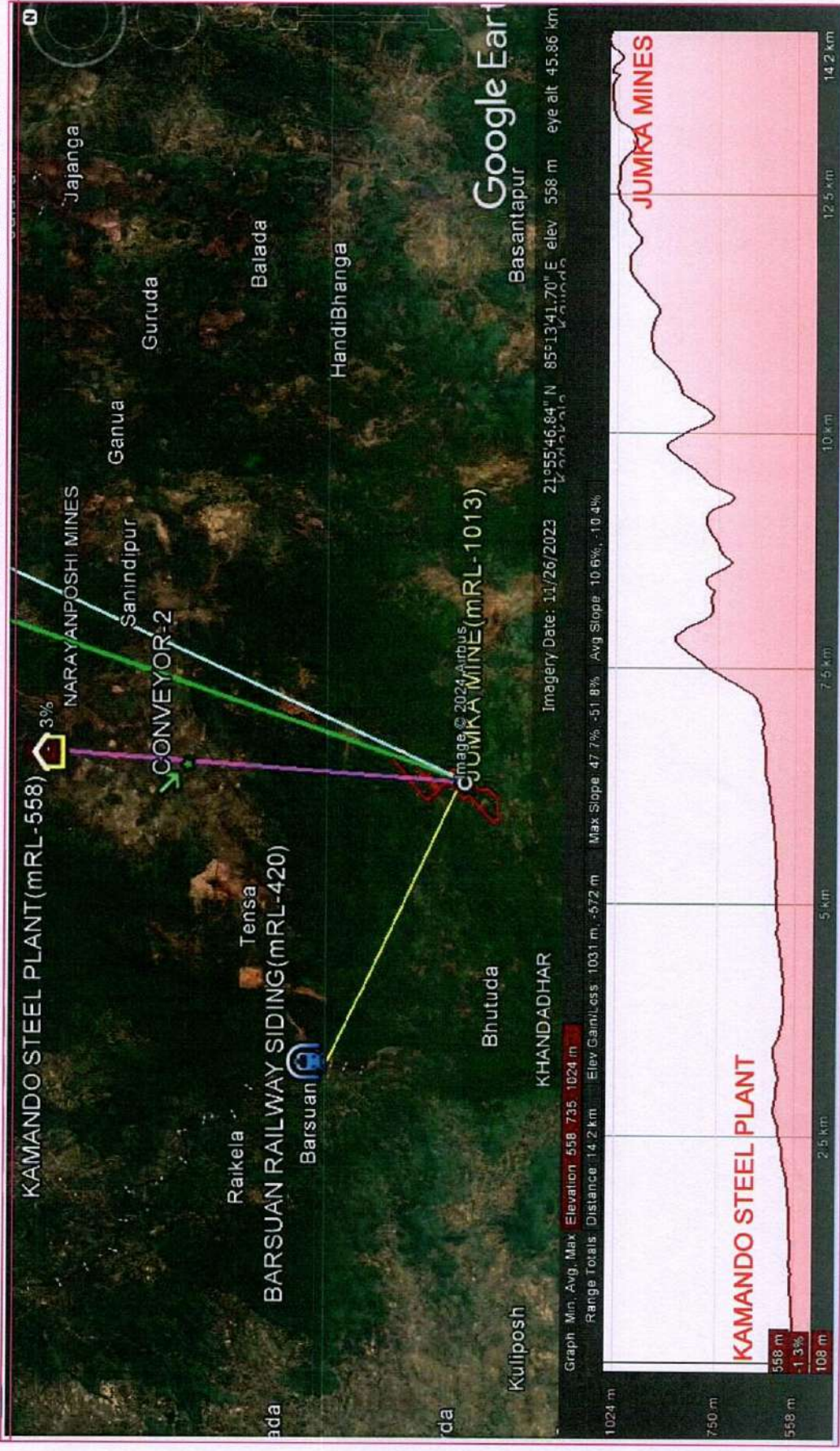






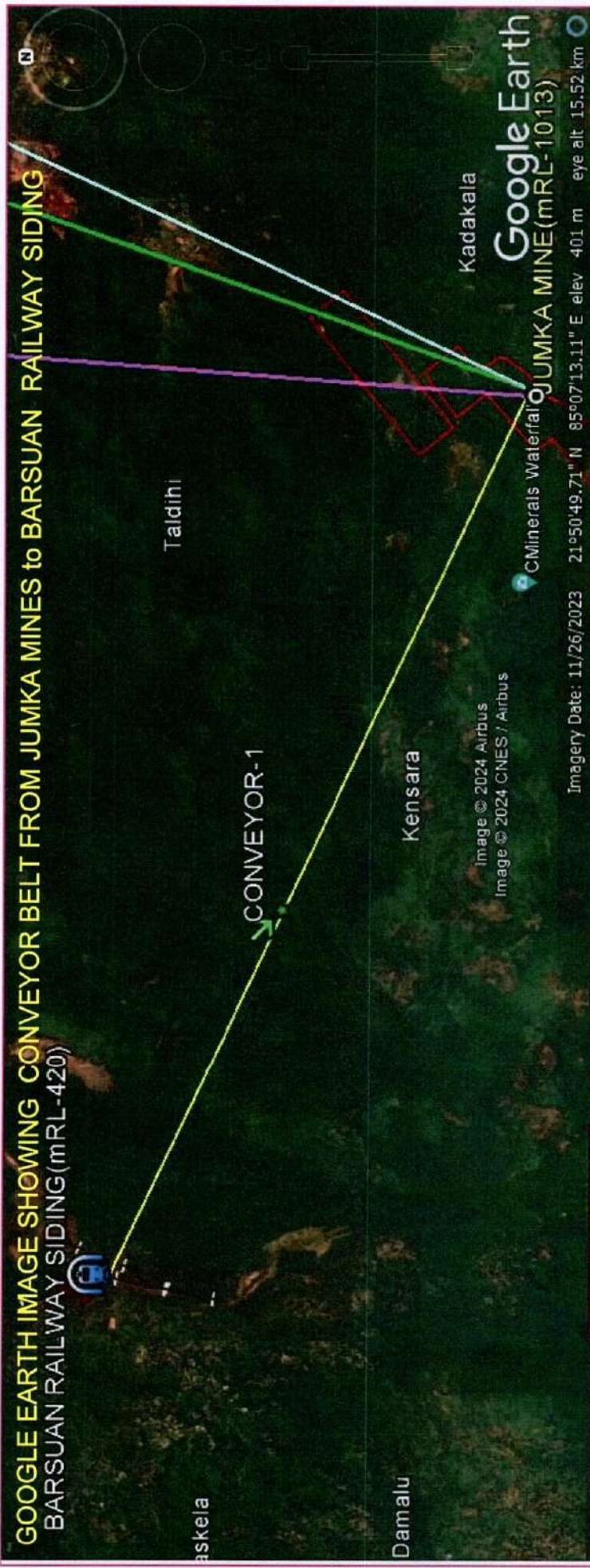


# GOOGLE EARTH IMAGE SHOWING CONVEYOR BELT FROM JUMKA MINES to KAMANDO STEEL PLANT





GOOGLE EARTH IMAGE SHOWING CONVEYOR BELT FROM JUMKA MINES TO BARSUAN RAILWAY SIDING (mRL-420)



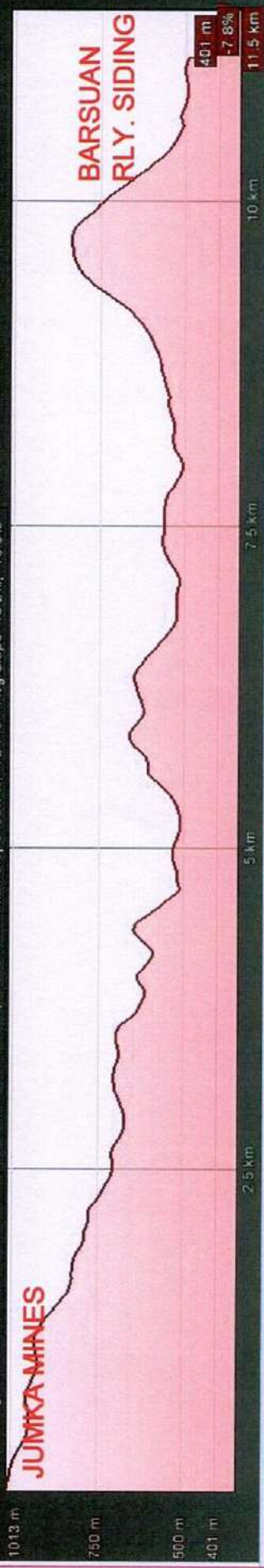
Google Earth  
JUMKA MINE(mRL-1013)

CMaterials Waterfall 21°50'49.71" N 85°07'13.11" E elev 401 m eye alt 15.52 km

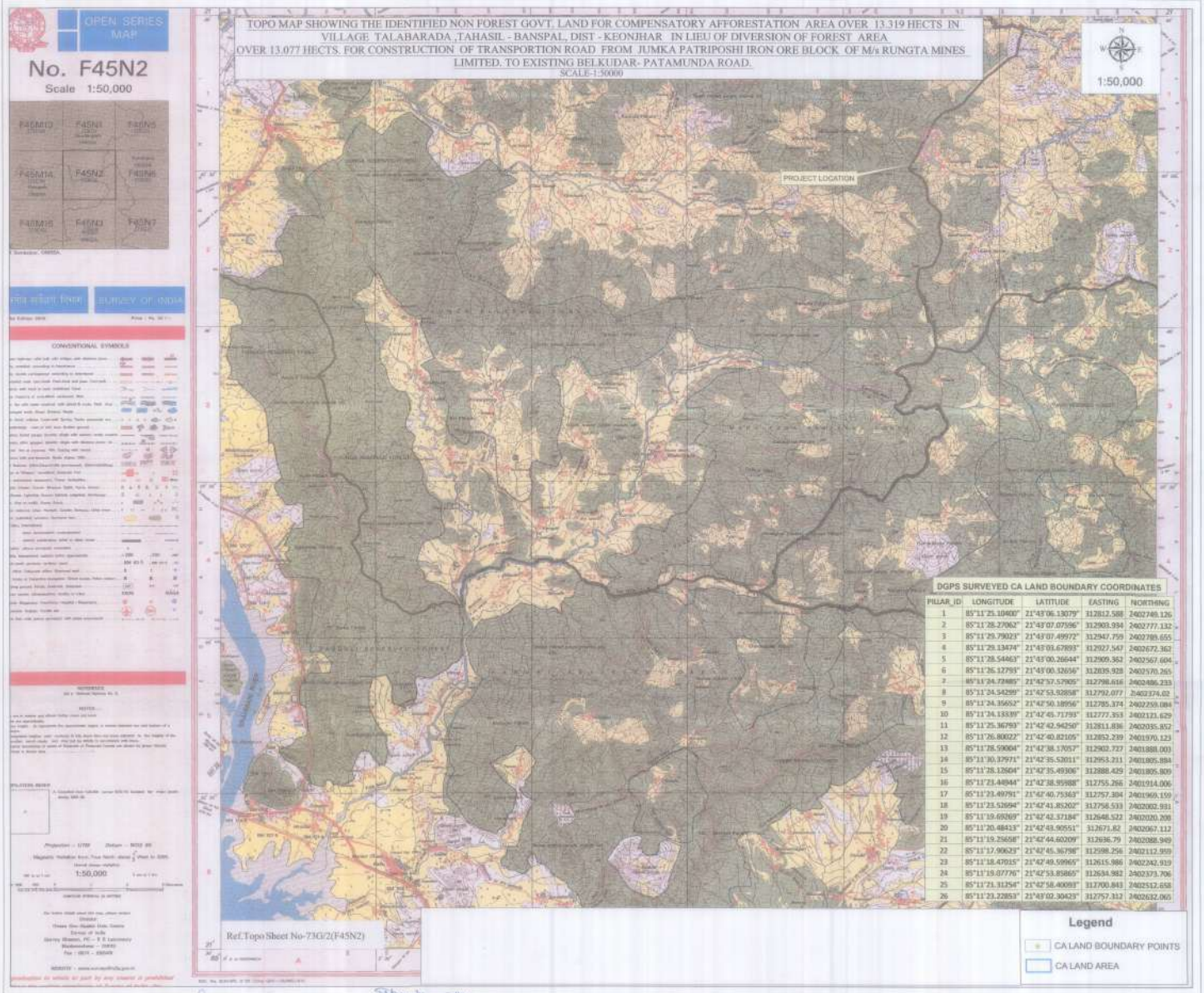
Image © 2024 Airbus  
Image © 2024 CNES / Airbus

Imagery Date: 11/26/2023  
Max Slope: 50.7% -72.7% Avg Slope: 15.2% -19.0%

Graph Min, Avg, Max Elevation 401, 660, 1013 m  
Range Totals Distance 11.5 km Elev Gain/Loss 743 m, -1356 m







TARAVANT

COURTESY  
Tahsil  
BanspalTahsil  
Banspal  
Banspal