AFFORESTATION OVER 417.073 HA OF
NON-FOREST GOVT. LAND IDENTIFIED
IN VILLAGE SUDANGA UNDER
BANSAPAL TAHASIL OF B.J.P. RANGE OF
KEONJHAR FOREST DIVISION AGAINST
INTEGRATED LAKHANPUR-BELPAHARLILARI OCP, 40 MTY IN JHARSUGUDA
DISTRICT ALLOTTED

TO
M/s MAHANADI COALFIELD LIMITED

ELEMENTS OF THE SCHEME FOR COMPENSATORY <u>AFFORESTATION</u>

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CHAPTER-I

BRIEF NOTE ON THE PROPOSED FOREST DIV/ERSION PROPOSAL

As intimated by the user agency that the three operating mines of Lakhanpur Area, MCL are Lakhanpur Opencast Project, Belpahar Opencast Mine and Lilari Opencast Project are within Notified Boundary for IB Block-II, IB Block-IV (Part-I) IB Block-IV (Part-II) acquired under CBA(A&D) Act, 1957. In the present proposal, all the three mines have been proposed to be integrated into one mine within the same notified boundary of IB Block-II, IB Block-IV (Part-I) IB Block-IV (Part-II) acquired under CBA(A&D) Act, 1957. Both Ib and Rampur seams below Lakhanpur and Lilari OCP are virgin and were not planned earlier due to presence of thick parting between Lajkura and Rampur seam. In the present proposal, all the three mines have been proposed to be integrated into one mine and planned upto the lower most workable coal seam for better conservation, safety and enhancing the capacity of the mine to meet the growing coal demand of MCL & also to add life to the project. Further, new coal linkages have been given to MCL for which MCL has already issued LOA. The proposed integrated project will meet the coal demand from the coalfield, especially to the new consumers and reduce the gap between demand and availability. As such, additional property to the dip side has been annexed for an estimated additional capital investment of Rs. 2434.75 crores for the proposed Lakhanpur-Belpahar-Lilari Opencast Project, 40 Mtv.

The three mines are adjacent to each other and have common lease boundaries. The area involved in the project has been delineated in Topo Sheet No 64-O/13 & 64O/14 on R.F.1:50000 and bounded by latitude 21°42'12" – 21°47'20" N and longitude 83°48'00" – 83°52'41" E in the district of Jharsuguda, Odisha.

The area under consideration is well connected by rail and road to all important business and industrial centres of the country. The Mumbai-Howrah main line of the SEC railway passes close to the northern boundary of Belpahar I, II & III combined block. The Belpahar railway station is situated at a crow fly distance of about 5 km from the northern boundary of the block. Jharsuguda, the dist. Headquarter is 30 km from the area and is connected by the Belpahar-Jharsuguda all weather road (Odisha District Road-5). Jharsuguda is connected with Sambalpur-Rourkela and Bilaspur by a state Highway No.10. The district headquarter Raigarh of State Chhattisgarh is also around 70 km away from Belpahar and is well connected by the Belpahar-Kuraloi-Lakhanpur-Kalarbaga-Bhikampal-Raigarh all weather pitch road (NH-49).

The present scheme aims at preparation of site specific Compensatory Afforestation scheme over 417.073 ha Non-forest Govt. land identified in lieu of the proposed diversion proposal submitted over 417.073 ha in village Sudanga under BJP Range of Banspal Tahasil under ANR plantation @600 nos. seedling per ha model with a maintenance of 10 years at current wage rate of Rs. 308/- per mandays and allotted for the said purpose vide letter No. 485/Rev dt. 14.05.2019 for 336.858 ha and No. 919/Rev dt. 18.07.2019 for 80.215 ha of Collector, Keonjhar.

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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 Sudanga under Bansapal Tahasil in B.J.P. Range of Keonjhar Forest Division over 417.073 ha and has been jointly verified by the Tahasildar, Bansapal, Revenue Inspector, Nayakote and Range Officer, B.J.P. Range. The identified land has been allotted in favour of Integrated Lakhanpur-Belpahar-Lilari Open Cast Project in Jharsuguda District of Lakhanpur area of M/s Mahanadi Coalfield Limited by the Collector, Keonjhar vide letter No 485/Rev dt. 14.05.2019 for 336.858 ha and No. 919/Rev dt. 18.07.2019 for 80.215 ha.

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 417.073 ha in favour of Integrated Lakhanpur-Belpahar-Lilari Open Cast Project in Jharsuguda District of Lakhanpur area of M/s Mahanadi Coalfield Limited.

C. INFORMATION ON LAND STATUS.

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

| | is turnished ne | | | | | |
|----------|-----------------|-----------|----------|-------------|---------|------------|
| Tahasil | Village | Khata No. | Plot No. | Area(in ha) | Kissam. | Remarks |
| Bansapal | Sudanga | 87(AAA) | 1 | 13.3551 | Hudi | Allotment |
| | | | 3 | 16.1880 | Hudi | Order No. |
| | | | 4 | 16.1880 | Hudi | 485/Rev |
| | | | 5 | 14.1645 | Hudi | dt. |
| | | | 6 | 16.7000 | Hudi | 14.05.2019 |
| | | | 7 | 15.1762 | Hudi | |
| | | | 8 | 14.0000 | Hudi |] |
| | | | 46 | 16.0000 | Hudi | |
| | | | 47 | 17.0000 | Hudi | |
| | | | 48 | 16.0000 | Hudi | 1 |
| | | | 49 | 26.0000 | Hudi | |
| | | | 50 | 34.0000 | Hudi | |
| | | | 455 | 15.0000 | Hudi | |
| | | | 456 | 15.0000 | Hudi |] |
| | | | 457 | 13.1528 | Hudi | |
| | | | 458 | 16.2994 | Hudi |] |
| | | | 459 | 16.7833 | Hudi | |
| | | | 460 | 16.7833 | Hudi | |
| | | | 461 | 15.0000 | Hudi |] |
| | | | 462 | 14.0674 | Hudi | |
| | | | Total | 336.8580 | | |

| Tahasil | Village | Khata No. | Plot No. | Area(in ha) | Kissam. | Remarks |
|----------|---------|-----------|----------|-------------|---------|------------|
| Bansapal | Sudanga | 87(AAA) | 463 | 16.000 | Hudi | Allotment |
| | _ | | 464 | 15.000 | Hudi | Order No. |
| | | | 465 | 16.000 | Hudi | 919/Rev |
| | | | 466 | 16.000 | Hudi | dt. |
| | | | 467 | 17.215 | Hudi | 18.07.2019 |
| | | | Total | 80.215 | Hudi | |

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 Sudanga is in two patches situated on upland with gentle slope and is suitable for Compensatory Afforestation in ANR plantation model@ 600 seedling per ha over 417.073 ha.

The topography of the area is mainly hilly situated on upland. The top soil is eroded due to "Podu cultivation" in the past. The soil is prone to erosion necessitating soil-moisture conservation measures. Available depth of lateritic-loam soil is conducive for plantation, but in most of the area there is a requirement of foreign soil for better growth of plantation coupled with suitable soil-moisture conservation measures. This necessitates the undersigned to adopt ANR Plantation norms approved by PCCF, Odisha. The norms provided in this project is proportionately reduced to accommodate 600 plants/ ha. The average temperature varies from 13.5° C minimum in December to 45°C maximum in May. The annual rainfall varies from 1200 mm to 1500 mm. The maximum rainfall is received during the rainy season from July to September. The identified land is considered for Compensatory Afforestation in ANR plantation over 417.073 ha. The CA scheme is envisaged to be executed with involvement of Tiriba VSS.

CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

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

The area has been demarcated through DGPS survey and 4' height RCC pillars have been posted around the identified area and 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). A durable sign board 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.

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.

Species to be planted:-

- 1. Sizyzium cumini(Jamu)
- 2. Adina cardifolia(Kuruma)
- 3. Accacia catechu (Khair)
- 4. Dalbergia sissoo(Sissoo)
- 5. Gmelinaarborea (Gambar)
- 6. Terminalia belerica (Bahada)
- 7. Terminalia chebula(Harida)
- 8. Pongamia pinnata (Karanja)
- 9. Emblica officinalis (Amla)
- 10. Shorea robusta(Sal)

B.PRE-PLANTING OPERATION

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

Nursery will be raised @660 seedlings per ha including seedlings for 10% casualty replacement for 417.073 ha.

B(II)-SURVEY, DEMARCATION & PILLAR POSTING, DGPS READING WITH MAPPING-

The planting area has been surveyed and demarcated through DGPS survey and 4' height RCC pillars have been posted at inter visible distance (as per the direction of forest Range Officer, BJP Range) with DGPS 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. The survey and demarcation shall be carried out once again while implementing the scheme.

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 30 x 30 x 30 cm. will be dug @600 per ha over 417.073 ha preferably 2 months before planting of seedlings.

C. PLANTING OPERATION

Planting of seedlings will be taken up in the month of July. The polythene 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 heal 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 grammes of N.P.K. 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 wire mesh LBCD structures of dimension 10' x 10' x 5' to the tune of 418 nos. along with two nos. water body of size 40mt x 30mt x 3mt in the plantation site. If required need based CC Check Dam can also be constructed in lieu of wire mesh LBCD structures.

D(5)-PROTECTION AGAINST FIRE AND BIOTIC INTERFERENCE

It is proposed to protect the CA plantation from grazing by domestic animals using Barbed wire fencing (7 Strands). The total length of such Barbed wire fencing for both the patches which comes to 15.56 Km (15,560 M). 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 Tiriba VSS.

CHAPTER-VI

Cost Norm for Block Plantation @600 seedlings per ha (18 months old seedlings) @ 308.00/- Mandays as per revised wage rate by Labour Commissioner, Odisha, Bhubaneswar vide Notification No. 6100/LC dated 21.10.2020.

| SL. | Item of Work | Preferable | Labour | Lobour | Material | Total Cost |
|-----|---|--------------------|---------|----------|-----------|------------|
| | | Period of | in | Cost | Cost (Rs) | in (Rs) |
| | | Execution | Mandays | (Rs) | | · |
| | | Previous | Year | | · | |
| 1 | Nursery cost (18 months old | Nov-Mar | 16.5 | 5082 | 1102 | 6184 |
| | seedlings) @Rs. 34.84 part | | | | | |
| | (Rs. 8.68 to be released) for | | | | | |
| | 660 seedlings (600 + 60) | | - : | | | ļ ——— |
| | SUB TOTAL | | 16.5 | 5082 | 1102 | 6184 |
| 2 | Monitoring & Supervision | | | | | 309.2 |
| | charge 5% of the total cost | | 165 | 7000 | 1100 | 6402.2 |
| | GRAND TOTAL | oth * r | 16.5 | 5082 | 1102 | 6493.2 |
| | | Oth Ye | ear | | | |
| 1 | Survey, Demarcation and Pillar Posting, GPS Reading with mapping | Nov/Dec | 2 | 616 | 0 | 616 |
| 2 | Site Preparation | Nov/Dec | 2 | 616 | 0 | 616 |
| 3 | Silvicultural Operation | Jan/Feb | 5 | 1540 | 0 | 1540 |
| | including clearance of weed, climber cutting, high stump cutting, singling of shoots etc. | | | | | |
| 4 | Nursery cost (18 months old seedling)part @ Rs.12.43/- seedling (Rs.8.67 in 0th year + Rs.3.76 in 1st year) for 660 seedlings (600+60) | Jan-Mar | 16.5 | 5082 | 1102 | 6184 |
| 5 | Contingency and Unforeseen Expenditures | | 0 | 0 | 198 | 198 |
| | SUB TOTAL | | 25.5 | 7854 | 1300 | 9154 |
| | Monitoring & Supervision charge 5% of the total cost | | | | | 457.7 |
| | GRAND TOTAL | | 25.5 | 7854 | 1300 | 9611.7 |
| - | , | 1 st Ye | | <u> </u> | | , |
| 1 | Nursery cost (18 months old seedling) balance @ Rs.3.76 for 660 seedlings | Apr-June | 8 | 2464 | 241.5 | 2705.5 |
| 2 | Pitting 30 cm cube size | Feb/Mar | 18 | 5544 | 0 | 5544 |
| 3 | Carriage and planting including casualty replacement | Jul/Aug | 15 | 4620 | 0 | 4620 |
| 4 | Complete weeding, Soil working, Manuring | Aug/Sep | 18 | 5544 | 0 | 5544 |

| | 6 | | | | | |
|----|--|--------------------|-----|-------|--------|---------|
| 5 | Cost of Vermi compost 200 gms/plant @ Rs.20/- per kg = Rs.2400.00 and Granular Insecticide 5 gms/plant @ | Aug/Sep | 0 | 0 | 2640 | 2640 |
| | Rs.80/- per kg. =Rs.240.00 | | | | | |
| 6 | Cost of Chemical fertilizer | Jul/Aug | 0 | 0 | 972 | 972 |
| | (a) Urea 70 gms/plant in two subsequent doses @ Rs.6/- per kg =Rs.252.00 | | | | | |
| | (b) NPK 50 gms/plant @ Rs.24/- per kg=Rs.720.00 as basal dose | | | | | |
| 7 | Fireline Tracing and Inspection Path | Feb/Mar | 3 | 924 | 0 | 924 |
| 8 | Silvicultural Operation involving clearance of weeds, cutting of climbers, singling of shoots etc. | Sep/Oct | 15 | 4620 | 0 | 4620 |
| 9 | Soil Conservation Measures (Staggered trenches of dimension 2 m X 0.5 m X 0.5 m @ 60 nos per ha) or its equivalent | Sep/Oct | 20 | 6160 | 0 | 6160 |
| 10 | Watch & ward | Aug-Mar | 7 | 2156 | 0 | 2156 |
| 11 | Contingency and Unforeseen Expenditures | | 0 | 0 | 353 | 353 |
| | SUB TOTAL | | 104 | 32032 | 4206.5 | 36238.5 |
| | Monitoring & Supervision charge 5% of the total cost | | | | | 1811.92 |
| | GRAND TOTAL | | 104 | 32032 | 4206.5 | 38050.4 |
| | | 2 nd Ye | ear | | | |
| 1 | Casualty Replacement including cost of seedling, carriage and planting | Jul/Aug | 3 | 924 | 745.8 | 1669.8 |
| 2 | Complete weeding and cultural operations | Sep/Oct | 6 | 1848 | 0 | 1848 |
| 3 | Soil working and manuring | Sep/Oct | 6 | 1848 | 0 | 1848 |
| 4 | Cost of Fertiliser and insecticide | Sep/Oct | 0 | 0 | 2424 | 2424 |
| | (a) Vermicompost 200gms/plant @ Rs.20/- per kg=Rs.2400.00 | | | | | |
| | (b) Granular Insecticides 5 gms/plant for 80 plants 300 gms @ Rs.80/- per kg=Rs.24.00 | | | | | |
| 5 | Fireline Tracing and Inspection Path | Feb/Mar | 1 | 308 | 0 | 308 |

| | • | | | | ٠ | |
|----|--|--------------------|-----|------|--------|---------|
| 6 | Soil Conservation Measures (Renovation of staggered trenches etc.) | Sep/Oct | 8 | 2464 | 0 | 2464 |
| 7 | Watch & ward (whole year) | Apr- March | 7 | 2156 | 0 | 2156 |
| 8 | Contingency and Unforeseen Expenditures | | 0 | 0 | 193 | 193 |
| - | SUB TOTAL | | 31 | 9548 | 3362.8 | 12910.8 |
| | Monitoring & Supervision charge 5% of the total cost | | | | | 645.54 |
| | GRAND TOTAL | | 31 | 9548 | 3362.8 | 13556.3 |
| | - | 3 rd Ye | ear | | | |
| 1 | Complete weeding and cultural operations | Aug/Sep | 3 | 924 | 0 | 924 |
| 2 | Soil working | Aug/Sep | 3 | 924 | 0 | 924 |
| 3 | Fireline Tracing and Inspection Path | Feb/Mar | 1 | 308 | 0 | 308 |
| 4 | Watch & ward (whole year) | April-Mar | 7 | 2156 | 0 | 2156 |
| | SUB TOTAL | | 14 | 4312 | 0 | 4312 |
| | Monitoring & Supervision charge 5% of the total cost | | | | | 215.6 |
| | GRAND TOTAL | | 14 | 4312 | 0 | 4527.6 |
| | | 4 th Ye | ear | | | |
| 1 | Fireline Tracing and Inspection Path | Feb/Mar | 1 | 308 | 0 | 308 |
| 2 | Watch & ward and cultural operations | April-Mar | 2 | 616 | 0 | 616 |
| | SUB TOTAL | | 3 | 924 | 0 | 924 |
| | Monitoring & Supervision charge 5% of the total cost | | | | | 46.2 |
| | GRAND TOTAL | | 3 | 924 | 0 | 970.2 |
| | | 5 th Ye | ear | | | |
| 1 | Fireline Tracing and Inspection Path | Feb/Mar | 1 | 308 | 0 | 308 |
| 2, | Watch & ward and cultural operations | April-Mar | 2 | 616 | 0 | 616 |
| | SUB TOTAL | - | 3 | 924 | 0 | 924 |
| | Monitoring & Supervision charge 5% of the total cost | | | | | 46.2 |
| | GRAND TOTAL | | 3 | 924 | 0 | 970.2 |
| - | | 6 th Ye | ear | | | |
| 1 | Fireline Tracing and Inspection Path | Feb/Mar | 1 | 308 | 0 | 308 |
| 2 | Watch & ward and cultural operations | April-Mar | 2 | 616 | 0 | 616 |
| | SUB TOTAL | | 3 | 924 | 0 | 924 |
| 1 | | | | | · | · |

| ٤, | | | 4 | | | |
|----|--|---------------------|----|-----|---|-------|
| | Monitoring & Supervision charge 5% of the total cost | | | | | 46.2 |
| | GRAND TOTAL | | 3 | 924 | 0 | 970.2 |
| | | 7 th Yea | ar | | | |
| 1 | Fireline Tracing and Inspection Path | Feb/Mar | 1 | 308 | 0 | 308 |
| 2 | Watch & ward and cultural operations | April-Mar | 2 | 616 | 0 | 616 |
| | SUB TOTAL | | 3 | 924 | 0 | 924 |
| | Monitoring & Supervision charge 5% of the total cost | | | | | 46.2 |
| | GRAND TOTAL | | 3 | 924 | 0 | 970.2 |
| | | 8 th Yea | ar | | | |
| 1 | Fireline Tracing and Inspection Path | Feb/Mar | 1 | 308 | 0 | 308 |
| 2 | Watch & ward and cultural operations | April-Mar | 2 | 616 | 0 | 616 |
| | SUB TOTAL | | 3 | 924 | 0 | 924 |
| | Monitoring & Supervision charge 5% of the total cost | | | | | 46.2 |
| | GRAND TOTAL | | 3 | 924 | 0 | 970.2 |
| | | 9 th Yea | ar | | | • |
| 1 | Fireline Tracing and Inspection Path | Feb/Mar | 1 | 308 | 0 | 308 |
| 2 | Watch & ward and cultural operations | April-Mar | 2 | 616 | 0 | 616 |
| | SUB TOTAL | | 3 | 924 | 0 | 924 |
| | Monitoring & Supervision charge 5% of the total cost | | | | | 46.2 |
| | GRAND TOTAL | | 3 | 924 | 0 | 970.2 |
| | | 10 th Ye | ar | | | |
| 1 | Fireline Tracing and Inspection Path | Feb/Mar | 1 | 308 | 0 | 308 |
| 2 | Watch & ward and cultural opertions | , April-Mar | 2 | 616 | 0 | 616 |
| | SUB TOTAL | | 3 | 924 | 0 | 924 |
| | Monitoring & Supervision charge 5% of the total cost | | | | | 46.2 |
| | GRAND TOTAL | | 3 | 924 | 0 | 970.2 |

ABSTRACT

| SL. | Item of Work | No. | Labour | Material | Monitoring | Total cost in |
|-------|-----------------------------|--------|----------|----------|--------------|---------------|
| No | | Person | cost @ | cost | & | (Rs) |
| | | Day | Rs | (Rs) | Supervision | |
| | | | 308.00/- | | charge 5% | |
| | | | per day | | of the total | |
| | | | | | cost | |
| 1 | Previous Year | 16.5 | 5082 | 1102 | 309.2 | 6493.20 |
| 2 | 0th Year | 25.5 | 7854 | 1300 | 457.7 | 9611.70 |
| 3 | 1st Year | 104 | 32032 | 4206.5 | 1811.92 | 38050.40 |
| 4 | 2nd Year | 31 | 9548 | 3362.8 | 645.54 | 13556.30 |
| 5 | 3rd Year | 14 | 4312 | 0 | 215.6 | 4459.98 |
| 6 | 4th Year | 3 | 924 | 0 | 46.2 | 970.20 |
| 7 | 5th Year | 3 | 924 | 0 | 46.2 | 970.20 |
| 8 | 6th Year | 3 | 924 | 0 | 46.2 | 970.20 |
| 9 | 7th Year | 3 | 924 | 0 | 46.2 | 970.20 |
| 10 | 8th Year | 3 | 924 | 0 | 46.2 | 970.20 |
| 11 | 9th Year | 3 | 924 | 0 | 46.2 | 970.20 |
| 12 | 10th Year | 3 | 924 | 0 | 46.2 | 970.20 |
| | TOTAL | 212 | 65296 | 9971.3 | 3763.36 | 78962.98 |
| Total | Cost of plantation (417.07. | 3 ha.) | | | | 32933326.95 |

ADDITIONAL COST PROPOSED

| 1 | Wire mesh LBCD of size 10' x 10' x 5' for 418 nos. | 8725.39 x | 3647213.02 |
|---|---|--------------|-------------|
| | @Rs 8725.39/- per LBCD (or CC Check Dam) | 418 nos | |
| 2 | Two nos. water body of size 40mt x 30mt x 3mt in the | 2 x 6,06,800 | 1213600.00 |
| | plantation site | | |
| 3 | Cost of Barbed Wire Fencing over 15.56 Km. with 3 years | Rs6,83,876 x | 10641110.56 |
| | maintenance @2% of cost per RKM @Rs. 6,83,876/- per | 15.56 Km | |
| | RKM | | |
| | Sub-Total | | 15501923.58 |

TOTAL COST OF PROJECT

| 1 | Cost of ANR Plantation @600 seedlings per ha over 417.073 | 32933326.95 |
|---|--|----------------|
| | ha @ Rs. 78962.98 | |
| 2 | Additional Cost | 15501923.58 |
| | Sub Total | 48435250.53 |
| 3 | 15% of the total plantation cost towards Entry Point Activity/ | 7265287.57 |
| | Incentive to VSS etc | - |
| | Total | 55700538.10 |
| 4 | Add 20% escalation | 11140107.62 |
| | Grand Total | 6,68,40,645.73 |
| | | Or say |
| | | 6,68,40,700.00 |

(Rupees six crore sixty-eight lakh forty thousand seven hundred) only.

PROVISION OF FUNDS AND FUND UTILIZATION

Rs. 6,68,40,700/- (Rupees six crore sixty-eight lakh forty thousand seven hundred) only shall be deposited by the User Agency i.e. M/s Mahanadi Coalfield Limited, Lakhanpur, Jharsuguda District 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 co-ordinates along with other required informations of Compensatory Afforestation will be uploaded in the e-Greenwatch 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





OFFICE OF THE DIVISIONAL FOREST OFFICER, KEONJHAR DIVISION

Phone No- 06766-254315, email ID- dfokjr.od@gov.in

Memo No. 1196 / 6F-Mining-49/2016 Dated, Keonjhar, the 12/02/2021

To

The Divisional Forest Officer, Jharsuguda Division, Odisha

Sub:

Lakhanpur OCP, Belpahar OCP, Lilari OCP are running Open Cast Mine of MCL, which are proposed to be integrated into one project. The total mine lease of the Project is 4399.246 Ha out of which 541.622 Ha have been already diverted. The proposal is for forest diversion of 417.073 Ha and Re-diversion (Change of Land use) of 171.774 Ha by M/s Mahanadi Coalfield Limited.

X-Sub

Submission of Compensatory Afforestation scheme.

Ref:

Letter No. MCL /GM /LKPA /ASO/ FOREST/ 2021/322 dt. 12.02.2021 of M/s Mahanadi Coalfield Limited (Copy enclosed).

With reference to the aforementioned letter on the captioned subject, the Compensatory Afforestation scheme@600 sedlings per ha over 417.073 ha of non-forest Govt. land identified in village Sudanga under Banspal Tahasil of Keonjhar District with maintenance of 10 years at the wage rate of Rs. 308.00 per man-days pursuant to Govt. of Odisha Labour and ESI Department Notification No. 6100/LC dated 21.10.2020 is sent herewith for information and necessary action.

Encl: As above

∕∕∑Keonjhar Division.

Memo No. 1197 /Dated 1202-2021

Copy forwarded to the General Manager, M/s Mahanadi Coalfield Limited, Lakhanpur Area, Bandhabahal, Jharsuguda, Odisha for information and necessary action with reference to his letter No. 2021/322 dt. 12.02.2021.

Keonjhar Division.

Memo No. 1198 /Dated 12-02.2.2.2Copy forwarded to the Collector, Keonjhar for kind information and necessary action with reference to letter No 485/Rev dt. 14.05.2019 and No. 919/Rev dt. 18.07.2019.

Divisional Forest Officer,

Keonjhar Division.

