SCHEME FOR COMPENSATORY AFFORESTATION OVER 9.175 HA OF NONFOREST GOVT. LAND @Rs. 333/- PER MANDAYS (AS PER ONETIME COST NORM) IDENTIFIED IN VILLAGE DERI UNDER BANSPAL TAHASIL BJP RANGE OF KEONJHAR FOREST DIVISION

IN RESPECT OF

JHUMKA PATHIRIPOSI PAHAR IRON ORE BLOCK COMING UNDER KEONJHAR FOREST DIVISION OF KEONJHAR DISTRICT

OF

M/s RUNGTA MINES LTD

ELEMENTS OF THE SCHEME FOR COMPENSATORY AFFORESTATION

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CHAPTER-I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Government of Odisha, pursuant to the Mines and Minerals (Development and Regulation) Act, 1957 and the Mineral (Auction) Rules, 2015 as amended from time to time, issued the notice inviting tender dated 07.07.2021 to commence the auction process for grant of mining lease for Jumka Pathiriposhi Pahar Iron ore block over an area of 158.509 Hectare for Iron Ore located in Koira Mining circle, district Sundergarh, Odisha. The e-auction process was conducted in accordance with the tender document for the said mineral block on 24.09.2021 and Rungta Mines Ltd. was declared as the 'Preferred Bidder' under Rule 9(9)(iii) or Rule 10 (1A) of Auction Rules, having quoted highest Final Price Offer vide letter No.MXIII(b) 46/2021/7738/DM Dated 05.10.2021 issued by Director of Mines Government of Odisha.

As required under Rule 10(1) of the Auction Rules and the tender document for the said mineral block, Rungta Mines Ltd. has made payment of the first instalment, being 20% (twenty percent) of the upfront payment of Rs.49,21,44,251/-(Forty Nine Crore Twenty One Lakh Forty Four Thousand Two Hundred Fifty One) only through Treasury Challan vide e- Challan no. 0853/1886 dated 08.10.2021 at Cyber Treasury, Dist- Sundargarh

Accordingly, pursuant to Rule 10(2) of the Auction Rules and the terms of the Tender Document, the Government of Odisha is pleased to issue Letter of Intent (LOI) bearing no. IV(B)SM-49/2021/8716/SM, Bhubaneswar dated 28.10.2021 for grant of Mining Lease for Jumka Pathiriposhi Pahar Iron ore block for Iron ore located in 20 km south of Koira town in Kedeshala village Koidatahasil, Sundergarh district on 158.509 Hectare Area to Rungta Mines Ltd. for a period of 50 (fifty) years. Out of 158.509 Ha DGPS surveyed lease area, 147.803 Ha is in Sundargarh district and 10.706 Ha is in Keonjhar district. The total forest land included is 156.978 Ha. out of which 147.803 Ha is PRF in Sundargarh district and 9.175 Ha is Revenue forest in Keonjhar district. Remaining 1.531 Ha is Nonforest Govt. land in Keonjhar district.

The present Compensatory Afforestation scheme is so prepared to compensate the forest land being diverted for non-forestry use at the Non-forest Govt. land identified in village Deri under BJP Range of Banspal Tahasil allotted for the said purpose vide letter No. 1872 dt. 26.05.2022 of Collector, Keonjhar. The CA scheme is prepared at present prevailing wages rate i.e. @Rs. 333.00 per man days with maintenance period of 10 (ten) years (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 2022-23).

<u>CHAPTER- II</u> 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 Deri under Bansapal Tahasil in B.J.P. Range of Keonjhar Forest Division over 9.1750 ha in one patch 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 9.1750 ha in respect of Jhumka Pathiriposi Pahar Iron Ore Block coming under Keonjhar Forest Division of Keonjhar District of M/s Rungta Mines Ltd.

C. INFORMATION ON LAND STATUS.

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

| Sl No | Khata | Plot no | Kisam | Total area(ha) | Acquired | Tenant |
|-------|-------|---------|-------|----------------|----------|--------|
| | no | | | | area(ha) | |
| 1 | 53 | 459(P) | HUDI | 16.000 | 4.6330 | AAA |
| 2 | 53 | 460(P) | HUDI | 16.000 | 4.5420 | AAA |
| | | Total A | rea | | 9.1750 | |

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 Deri is in one patch situated on upland with gentle slope is suitable for Compensatory Afforestation in AR model @1600 seedlings/ ha over 5.00 ha is Open Forest category as per the report of the Range Officer, BJP Range vide his memo No 352 dt. 28.05.2022 (Copy enclosed).

CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

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

The area has been demarcated through DGPS survey and 10 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 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.

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

| Name of the site | Area identified for | MDF | Open Forest |
|------------------|---------------------|---------------|----------------|
| | plantation (in ha) | (in Sq Miles) | (in Sq. Miles) |
| Village- Deri | 9.1750 | 0.04 | 0.05 |

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. 352 dated 28.05.2022. The report of GIS based DSS is enclosed herewith.

Species to be planted:-

- 1. Sizyzium cumini (Jamu)
- 2. Adina cardifolia (Kuruma)
- 3. *Anogeissus latifolia* (Dhaura)
- 4. Dalbergia sissoo (Sissoo)
- 5...Azadirrachta 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 @1760 seedlings per ha including seedlings for 10% casualty replacement for 5.00 ha.

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

The planting area has been surveyed and demarcated through DGPS survey and 10 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. Two 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 45cm³ will be dug AR model @1600 seedlings/ ha over 5.00 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 $\{(\text{size }12 \times 10) \text{ }(300 \text{ gauge})\}$ 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 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 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 10 nos. over the entire plantation site.

D(5)-WATERING PROVISION

1 nos. borewell will be dug for watering over the plantation site (one diesel pump set fitted with borewell for 5 ha plantation) with maintenance and recurring expenditure for 5 years.

D(6)-PROTECTION AGAINST FIRE AND BIOTIC INTERFERENCE

The CA site of two nos. patches i.e. 147.803 ha & 9.175 ha are contiguous. The total fencing i.e. 6.49 Km has been taken in both the plantation over 156.978 ha (147.803 ha + 9.175 ha). The said fencing over the total length is 6.49 Km in the CA scheme over 147.803 ha. Therefore, in the instant scheme fencing work is not taken. 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 Birikala VSS.

CHAPTER- VI

COST STRUCTURE OF PLANTATION, PROVISION OF FUNDS AND UTILIZATION

Base Cost Norm for AR Plantation @1600 seedlings per ha (18 months old seedlings) @ 333.00/-Mandays as per revised wage rate by Labour Commissioner, Odisha, Bhubaneswar vide Notification No. 6078/LC dated 19.10.2022 and onetime cost norm provided by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021 (As per base norm of Matrix for the year 2022-23).

ANNEXURE-5

| , , , , , , | WAGE RATE RS | - 311/- PER M | ANDAY | | | |
|-------------|---|--------------------------------------|------------------|----------------------------|--------------------------|----------|
| Sl. No | Items of work | Preferable Period of Execution | No of Mandays | Labour Cost (In Rs.) | Matrial Cost (in Rs.) | (In Rs.) |
| 1 | 2 0th Year (Advance we | 3 | ha Openation | 5 | 6 | 7 |
| | T in the second | | 2 | 622 | 0 | 622 |
| 1 | Survey, Demarcation and Pillar posting | Nov/Dec | | | | |
| 2 | Preparation of Treatment Map (Digital Map) | Nov/Dec | 1 | 311 | 100 | 411 |
| 3 | Site preparation (Cleaning & removal of debrises) | Nov/Dec | 12 | 3732 | 0 | 3732 |
| 4 | Creation of 4.00 mt wide Inspection Path | Feb/Mar | 1 | 311 | 0 | 311 |
| 5 | Alignment and stacking | Feb/Mar | Z | 622 | 0 | 622 |
| 6 | Digging of pits (45 cm x 45 cm X 45 cm) in hard and gravelty soil | Feb/Mar | 64 | 19904 | 0 | 19904 |
| 7 | Construction of Tempurary Labour Shed, Drinking water facility and First-Aid etc. | Jan/Mar | 0 | 0 | 3500 | 3500 |
| | Total | | 02 | 25502 | 3600 | 29102 |
| | 1st Year | /Planting Year | * | · | | |
| 1 | Refilling of pits by altering the dug-out soil of the pits, application of Organic compounds/CDM/FYM & mixing the same properly. |]un/ju! | 12 | 3732 | 8000 | 11732 |
| 2 | Transportation of 18 months old polypot seedlings in hired truck /tractor from the permanent/Mega nursery to planting site including Loading & unloading. (Average lead of 1D Rkm) & Stacking the seedling @ Rs.6/- per Seedling. (1760 nos.) | Jul/Aug | U | 0 | 10560 | 10560 |
| 3 | Watering the polypot seedlings at planting site | Jul/Aug | 3 | 933 | O | 933 |
| 4 | Conveyance of polypot seedlings on head load from the stacking site to individual dugout pits within the planting site, applying insecticute, fertilizers & planting after scooping the soil with other applied materials & pressing the soil properly around the planted seedlings. | Jul∕∧og | 36 | 11196 | 0 | 11 196 |
| er. | Cost of Fertilizer & Insecticide (a)NPK/Bio-fertifizer @ 50 gms/plant as basal dose = B0hg @ Rs.30/- per kg = Rs. 2400.00 (b) Urea/Vermicompost/Mo Khata/any other fertilizer in two subsequent doses @ Rs. 1,200.00 (c) Insecticide/ Bio-pescticide @ 5 gms/plant= 8 kg @ Rs.150/- per kg = Rs. 1200.00 | Jul/Aog | 0 | 0 | 4800 | 4800 |

| | WAGE RATE R | s- 311/- PER M | ANDAY | | | |
|-----------|--|--------------------------------------|------------------|---|--------------------------|----------|
| 5l. No | Items of work | Preferable Period of Execution | No of Mandays | Labour Cost (In Rs.) | Matrial Cost (In Rs.) | (In Rs.) |
| 1 | 2 | 3 | 4 | 5 | 66 | 7 |
| 6 | Casualty Replacement @ 10% (160 nos.) | Jul/Aug | 4 | 1244 | 0 | 1244 |
| 7 | 1st weeding & Manuing | Aug/Sept | 15 | 4665 | | 1665 |
| 8 | 2nd Weeding, Soil working (1mt. diametre around the plants) and Manuring | Oct/Nov | 20 | 6220 | 0 | 6220 |
| 9 | Fire line tracing (2:m. wide fire line over 400 m long) including maintenance of Inspection path | Feb/Mar | 3 | 93 3 | 0 | 933 |
| 10 | Watch & Ward including watering as per requirement | Aug-Mar | 12 | 3732 | 0 | 3732 |
| | Total | | 105 | 32655 | 23360 | 56015 |
| | 2nd Year | Maintenance | | popular in \$5000 forms into concentrations and descriptions. | | |
| 1 | Transportation of 160 seedlings from Nursery to plantation site including loading, unloading & conveyance by Tractor @ Rs.6/- per seedlings | Jul | 0 | 0 | 960 | 960 |
| 2 | Causality replacement- 10% | Jul | 4 | 1244 | 0 | 1244 |
| 3 | Cost of Fertilizer & Insecticule: A) Cost of Insecticide/ Bio-pesticide @ 5 gms/plant = 0.8 Kg @ Rs.150/- per kg = Rs.120/- B)Urea/NPK/Bio-fertilizer/Vermicompost/Mo Elanta/any other fertilizer & Rs. 4486/- | Aug/Sept | () | 0 | 4606 | 4606 |
| | Weeding (Complete weeding). Manuring & Soil working (1mt. diametre around the plants) | Sep/Oct | 20 | 6220 | 0 | 6220 |
| | Fire line tracing (2 m. wide fire line over 400 m long) including maintenance of inspection path | Feb/Mar | 3 | 933 | 0 | 933 |
| 6 | Watch & Ward including watering as per requirement | Apr-Mar | 18 | 5598 | 0 | 5598 |
| | Maintenance of Temporary Labour Shed, Drinking water facility and First-Aid etc. | | | | 1000 | 1000 |
| \dashv | Total | | 45 | 13995 | 6566 | 20561 |

| | BASE COST NORM FOR COMPENSATO @ 1600 PLANTS PER HEC | CTARE (18 mo | nths old seed | ling) | | |
|-----------|--|--------------------------------------|---|----------------------------|--------------------------|-----------------------|
| | WAGE RATE RS | | ANDAY | | | |
| Sl. No | Items of work | Preferable Period of Execution | No of Mandays | Labour Cost (In Rs.) | Matrial Cost (In Rs.) | Total cos (In Rs.) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | 3rd Yea | r Maintenance | : | ſ | | |
| 3 | Cost of FertRizerUrea/NPK/Bio- fertilizer/Vermicompost/Mo Khata/any other fertilizer | Sept/Oct | O | 0 | 4486 | 4486 |
| 4 | Weeding, Manuring & Soil working, (1mt. diametre around the plants) | Sep/Oct | 20 | 6220 | 0 | 6220 |
| 5 | Fire line tracing (2 m. wide fire line over 400 m long) including maintenance of inspection path | Feb/Mar | 3 | 933 | 0 | 933 |
| ú | Watch & Ward including watering as per requirement | Apr/Mar | 18 | 5598 | 0 | 5598 |
| 7 | Maintenance of Temporary Labour Shed, Drinking water facility and First-Aid etc. | Apr/Mar | | | 1000 | 1000 |
| | Total | | 41 | 12751 | 5486 | 18237 |
| | 4th Yea | r Maintenance | I | | | |
| 1 | Fire line tracing (2 m. wide fire line over 400 m long) including maintenance of inspection path | Feb/Mar | 3 | 933 | 0 | 933 |
| 2 | Watch & Ward | Apr-Mar | 18 | 5598 | 0 | 5598 |
| | Total | | 21 | 6531 | 0 | 6531 |
| | 5th Year | r Maintenance | | | | |
| 1 | Fire line tracing (2 m. wide fire line over 400 m length) | Feb/Mar | 3 | 933.00 | 0 | 933 |
| 2_ | Watch & Ward | Apr/Mar | 18 | 5598.00 | 0 | 5598 |
| | Total | | 21 | 6531 | 0 | 6531 |
| | 6th Yea | r Maintenance | • | | | |
| 1 | Fire line tracing (2 m. wide fire line over 400 m length) | Feli/Mat | 3 | 933.00 | 0 | 933.0 |
| 2 | Pruning of branches, Singling out of multiple shoots | Jan/Mar | 5 | 1555.00 | 0 | 1555.0 |
| 3 | Watch & Ward | Apr/Mar | 18 | 5598.00 | 0 | 5598.0 |
| | Total 7th Year | r Maintenance | 26 | 8086 | 0 | 8086.0 |
| | | | , | | T | |
| 1 | Fire line tracing (2 m. wide fire line over 400 m length) | Feb/Mar | 3 | 933.00 | 0 | 933 |
| 2 | Watch & Ward | Apr/Mar | 18 | 5598.00 | 0 | 5598 |
| | Total | r Maintenance | 21 | 6531 | 0 | 6531 |
| | | | | | | |
| 1 | Fire line tracing (2 m. wide fire line over 400 m length) | Feb/Mar | 3 | 933.00 | 0 | 933 |
| 2 | Watch & Ward | Apr/Mar | 18 21 | 5598.00 6531 | 0 | 5598 6531 |
| ~~~~ | Total 9th Year | Maintenance | *************************************** | 0531 | ı U | 6531 |
| 1 | | | | 933,00 | 0 | 933 |
| 1 | Fire line tracing (2 m. wide fire line over 400 m length) | Feh/Mar | 3 | | | |
| 2 | Watch & Ward | Apr/Mar | 18 | 5598.00 | 0 | 5598 |

| | BASE COST NORM FOR COMPENSATO @ 1600 PLANTS PER HEC | TARE (18 mo) | nths old seed | | (NO) | |
|-----------|--|--------------------------------------|------------------|----------------------------|--------------------------|------------------------|
| | WAGE RATE Rs | - 311/- PER M | ANDAY | | | |
| SI. No | items of work | Preferable Period of Execution | No of Mandays | Labour Cast (In Rs.) | Matrial Cost (In Rs.) | Total cost (In Rs.) |
| 1 | 2 | 3 | 4 | .5 | 6 | 7 |
| | Total | | 21 | 6531 | 0 | 6531 |
| | 10th Yea | r Maintenanc | e | | | |
| 1 | Fire line tracing (2 m wide fire line over 400 m length) | Feb/Mar | 3 | 933 | U | 933 |
| 3 | Watch & Ward | Apr/Mar | 18 | 5598.00 | 0 | 5598 |
| | Total | | 21 | 6531 | 0 | 6531 |

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

| Si. No | Year | No. person days | Labour cost @ Rs. 311/- per day (Rs) | | Monitoring, Evaluation, Learning, Documenta tion and Other Contingenc y (5%) of [4+5] | Cost of Seedlings | TOTAL COST |
|-------------------------|-----------|--------------------|---|-------|---|----------------------|------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Oth year | 82 | 25502 | 3600 | 1398.00 | 0 | 30500.00 |
| | Ist year | 105 | 32655 | 23360 | 2800,00 | 88546 | 147361.00 |
| | 2nd year | 45 | 13995 | 6566 | 1028.00 | 8050 | 29639.00 |
| | 3rd year | 4: | 12751 | 5486 | 911.00 | 8 | 19148.00 |
| | 4th year | 21 | 6531 | () | 326.00 | 0 | 6857.00 |
| A SECTION AND PROPERTY. | Stb year | 2: | 6531 | 0 | 326.80 | U | 6857.00 |
| | Oth year | 26 | 8086 | (1 | 404.00 | 0 | 8490.00 |
| | 7tr year | 21 | 6531 | () | 326.00 | 0 | 6857.00 |
| uma ama | 8th year | 21 | 6531 | () | 326.00 | Ü | 6857.00 |
| | 9th year | 21 | 6531 | (i | 326,00 | 0 | 6857.00 |
| | Tikh year | 21 | 6531 | () | 326,0(1 | U | 6857.00 |
| er, englangen, bissen | Total: | 425 | 132175 | 39012 | 8497 | 96596 | 276280 |

Note:

- Priority must be given to the indigenous local species available nearby to the site of plantation.

 10.% indigenous fruit bearing trees must be preferred to Plantation.

 Site specific Soil conservation work like LBCD. Gully Plugging, Staggered Freech, Contour Trench, Graded Bond, etc. may be
 Chan link feacing can be adopted in the CA plantation taken up untside the forest area and Bamboo twigs fencing may be
 Watering facilities for porturement of water & watering may be adopted as per the availability of water.

 Fine Cost Nam of var has items can be changed with the approval of the concerned RCCFs keeping the overall cost norm fixed for each sound of the concerned RCCFs keeping the overall cost norm fixed for each 6 Financial Year

Matrix for Model-I B Conventional CA Plantation (AR) 1600 plants per Ha

| ſ | | | | 7 | | | | | | | | N SI | |
|---|----------------------|---------------|---------|---------|---------|---------|--|---------|---------|----------------------|-----------|--------------------------|-----------|
| | ö | 45 | 00 | 7 | υn | Ųī | 4> | · 64 | 2 | 1-4 | Base | | |
| | 2030-31 | 2029-30 | 2028-29 | 2027-28 | 2026-27 | 2025-26 | 2024-25 | 2023-24 | 2022-23 | 2021-22 | Base Norm | Commence ment Year | |
| | | | | | | | | | | 30500 | 30500 | - | |
| | | | | | | | | | 32025 | 154729 | 147361 | = | |
| | | | - | | | | | 33526 | 162465 | 32674 | 29639 | = | |
| | | | | | | | 35,307 | 170588 | 34308 | 22166 | 19148 | V | |
| | | | | | | 37072 | 178117 | 36023 | 23274 | 83 33 35 55 | 6857 | < | |
| | | | | | 38926 | 188073 | 37874 | 24438 | 8752 | 3751 | 6857 | s | |
| | | | | 40872 | 197477 | 39715 | 25660 | 0616 | 9189 | 11377 | 8490 | ¥ | |
| | | | 42916 | 207351 | 41701 | 26943 | 9650 | 8756 | 11946 | 9648 | 6857 | 됩 | |
| | | 4,062 | 217719 | 45786 | 28250 | EE10: | :0130 | 17543 | 12130 | 10131 | 6857 | × | |
| | 47315 | 228605 | 48975 | 19705 | 10640 | 10637 | 13:70 | 10587 | 12638 | 10637 | 6857 | × | |
| | 240035 | 48274 | 31190 | 11172 | 11169 | 13829 | 1:169 | 11170 | 11169 | 11169 | 6857 | × | |
| | 50688 | 3 2752 | 38/33 | 11227 | 14520 | 11727 | 11759 | 11727 | 11727 | | | <u>×</u> | _ |
| | 00 00 01 11 | 11318 | 1 1 | 15246 | 13313 | 11315 | 1.313 | ::315 | | | | Ä | |
| | 17934 | 67571 | 36038 | ::529 | 12931 | 12929 | 12929 | | | | | ¥ | |
| | 13575 | 16808 | 13575 | 13578 | 13575 | 13575 | | | | | - | ¥ | |
| | 1/648 | ; 4234 | 14257 | 24254 | 14754 | | | | | | | ξ | |
| | 14967 | G/67t | 14567 | 74957 | | | | | | | | ₹ | |
| | 15713 | 15715 | 15715 | | | | and the second s | | | | | XVIII | |
| | 15% | 76697 | | | | | | | | | | × | , |
| | 17326 | | | | | | | | | | | × | |
| | | | | | | | | | | | | 8 | - |
| | 481096 | 458186 | 436366 | 415587 | 395796 | 376948 | 358998 | 341903 | 325623 | 310117 | - | Total Cost (10 Years) | in Mupees |

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

| | The same than th | | Annexure-1 |
|-------|--|--------------------------------------|--------------|
| ost N | orms for creation of Compensatory Afforestation with Stabilization of Soil & C | lonservation of N | doisture (10 |
| | WAGE RATE Rs- 311/- PER DAY | | |
| Sl.No | item of Wurks | Preferable Period of Execution | Total Cos |
| | Oth Year (Pre-Planting Operation) | | |
| 1 | NI | | 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 requirment on LS | Apr/Sept. | 20,215 |
| | 2nd Year | | - |
| 3 | Maintenance of SMC structures @ 15 % of initial year cost | Apr/[u] | 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 mittal year cost | Apr/Jul | 3,032 |
| | 4th Year | | |
| 5 | Momtenance of SMC structures @ 15 % of mitial year cost | Apr/]ui | 3,032 |
| | Tintal | | 32,343.0 |

| | Abstract | | | | |
|----------|------------|-----------------|--------------------------------------|------------------|---------------------|
| SL No | Уелг | No, person days | tabour cost @ Rs. 311/-per day | Material Cost | Total cost (Rs.) |
| 1 | 'll'h 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.

APCCE (Forest Diversion & NO, FC Act)

Matrix for (SMC)

| | | | | | | | | | | | | | A | | | - | | |
|------------|--|--|------|--|-------------|---|-------|--|--------|------------|-------|---------------------------|-------|-------|-------|--|-----------------------|------------|
| 55274 | | 5003 | 5715 | 5445 | 5,183 83 | 37928 | æ | | | | | | | | | | 2030-31 | 10 |
| 52542 | The state of the s | | 5717 | 5443 | 5186 | 4935 | 31360 | o | | | | | | | | | 2029-30 | G. |
| 50136 | | | | 5445 | 2184 | \$5. 55. 5. | 4701 | 29867 | ω | | | | | | | | 2028-29 | ∞ |
| 47749 | | | | | 5136 | ::937 | :70: | 4477 | 28443 | C 3 | | | | | | | 2027-28 | 7 |
| 45475 | | | | | | 0.56 | 4702 | -::80 -::- | #5 65. | 27090 | Ü | | | | | · · · · · · · · · · · · · · · · · · · | 2026-27 | m |
| 43310 | | | | The contract of the contract o | | | 470: | 4478 | .257 | 1061 | 25800 | ဝ | | | | | 2025-26 | 5 |
| 41248 | | | | 5.5 | | | | 448C | 4255 | :-30: | 3868 | 24572 | Ć) | | | | 2024-25 | 4 |
| 39284 | | | | | | | | | 4267 | 4067 | 3870 | 3684 | 23401 | 0 | | | 2023-24 | ω |
| 37415 | | | | | | | | | | 4054 | 3869 | 3686 | 3509 | 22287 | 0 | entry with constitution for the second | 2022-23 | 2 |
| 35633 | | | | ************************************** | | P V () () () () () () () () () (| | TOTAL STATE OF THE | | | 3870 | 3685 | 3510 | 3342 | 21226 | a | 2021-22 | <u>س</u> و |
| | - Construction of the Cons | - Appropriate construction of the propriate of the propri | | | | | | | | | 3032 | 3032 | 3032 | 3032 | 20215 | О | Base Norm | Ba |
| Total Cost | × | × | AIX | <u>≅</u> | ¥ | <u>×</u> | × | ≅ | ≦ | ≦ | ≤ | < | 2 | | == | _ | Commence ment Year | NO. ST |
| | | | | | | - | | - | - | | | - Linearente and a second | | - | | | | |

Matrix for (SMC)

In Rupees

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APCCF (Forest Diversion & NO, FC Act)

Watering Model – W-II

Watering Provision to CA Plantation

| Watering Model-W-II | | |
|---|------------------------------|---------|
| Watering provision to CA Plantation | 1 | |
| Diesel pump set with Bore well (1 pump set + Bore well for 5 Ha Plant | ation), Wage rate @ Rs.311/- | |
| Year of Installation (0th Year) | | |
| 1 Cost of Horewell | 1,50,000 | |
| 2 Cost of Diesel pump set SHP | 60,000 | |
| 3 Hiesel pump set & assessories like commander, Pipes, etc. | 30,000 | |
| 4 Water Storage Tunks/ Flexible pipes | 15,000 | |
| | 2,55,000 | |
| Cost of Water per Plant (2,55,000/ 5000)= Rs. 51/- | | £1.000 |
| Const of Water per Ha. = Rs. 51,000/- | | 51,000 |
| 1st Year Watering | | |
| 1 Recurring expenditure i.e Diesel, Mobil, Engine Dil, etc. for pumping Water -21 x 1000 = | | 21,000 |
| Watering 1000 Plants (Nov-Mar.) @ 200 plants/MII swith 7 days rotation | | 3 L.10D |
| 20 MD x 5 months = 100 MH x 311 = | | |
| | Total | 52,100 |
| 2nd Year Watering | | |
| 1 Remarking expenditure se Diesel, Mubil, Engine Oil, etc. for pumping Water -21 x 1000 | | 21,000 |
| Mannenance 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 rota 20 MD x 8 months = 160 MD x 311 = | tron | 49,760 |
| | 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 rota 20 MH x 8 months = 160 MD x 311 = | tion | 49,760 |
| SEC S. ILLUSTRATES AND A SEC. OF A S. | Total | 78,410 |
| 4th Year Watering | L C-C-C-C | ,0,710 |
| 1 Recurring expenditure i.e Diesel, Mobil, Engine Dil, etc. for pumping Water -21 x 1080:: | | 21.000 |
| Maintenance Diesel pump set etc. @ 15 % of the installation crist. | | 7,650 |
| Watering 1000 Plants (April- lune & Nov-Mar - 8 months) @ 200 plants (MD with 7 days rotal | ion | |
| 20 MD x 8 months = 160 MD x 311 = | | 49,760 |
| | Tetai | 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 crist. | | 7,650 |
| 2 Wateriag 1000 Plants (April- June & Nov-Mar 8 months) @ 200 plants/MD with 7 days rotat 20 MD x 8 months = 160 MD x 311 · | ion | 49,760 |
| Too and a received and also distances | Total | 78,410 |
| | | , ,,,,, |

| | Abstract | | | | |
|-----------|-----------|--------------------|---|------------------|---------------------|
| SJ. No | Year | No. person days | Labour cust @ Rs. 311/-per day | Material Cost | Total cost (Rs.) |
| 1 | Dth year | 0 | 0.0 | 51000.0 | 51000.0 |
| 2 | 1 st year | 100.0 | 31100.0 | 21000.0 | 52100.0 |
| 3 | 2nd year | 160 | 49760.D | 28650.0 | 78410.0 |
| 4 | 3rd year | 160 | 49760,0 | 2865D.0 | 78410.0 |
| 5 | 4th year | 160 | 49760.0 | 28650.0 | 78410.0 |
| 6 | 5th year | 16D | 49760.0 | 28650.0 | 78410.0 |
| | Total: | 740 | 230140 | 186600 | 4.16.740 |

APCCF/(Forest Diversion & NO, FC Act)

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

| 10 | 9 | 00 | 7 | o, | v | 4 | ω | 2 | | g. | NO. |
|---------|----------------|--|--|---------|---------|---------|---------|---------|-------------------------|-------------------|-----------------------|
| 2030-31 | 2029-30 | 2028-29 | 2027-28 | 2026-27 | 2025-26 | 2024-25 | 2023-24 | 2022-23 | 2021-22 | Base Norm | Commence ment Year |
| | | | | | | | | | 51000 | 5100 | |
| | | | | | | | | 53550 | 54705 | 52100 | = |
| | | | | ***** | | | 56228 | 57440 | 86439 | 78410 | = |
| | | | | | | 59039 | 60312 | 19706 | 90771 | 78410 | 2 |
| | | | | | 15679 | 63328 | 95299 | 01856 | 95307 | 78410 | < |
| | | | | 65091 | 86494 | 100064 | 100076 | 100072 | 100072 | 78410 | S |
| | | | 58346 | 69819 | 105067 | 105080 | 105076 | 105076 | | | ٧ı |
| | | 71763 | 75310 | 113320 | 110334 | 110330 | 110330 | | | | ≦ |
| | 75351 | 75976 | 115836 | 115851 | 115847 | 115847 | | | | | × |
| 79119 | 80375 | 121628 | 221644 | 171639 | 121639 | | | | | | × |
| 84866 | ::7709 | 127726 | 127721 | 127721 | | | | | | | × |
| 134094 | 13 11 12 | 134107 | 134107 | | | | | | | | × |
| 140818 | 140812 | 140312 | and the state of t | | | | | | | | ¥ |
| 147853 | 147853 | the state of the s | | | | | | | Continue and the second | | AIX |
| 155246 | | | | | | | | | | | ž |
| | | | | | | | | | | | ž |
| 741996 | 706562 | 673012 | 640964 | 610441 | 581372 | 553688 | 527321 | 502209 | 478294 | The second second | Total Cost |

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

Page **14** of **16**

ARCCF (Forest Diversion & NO, FC Act)

TOTAL COST OF PROJECT

| S. No | Item of Work | Unit Price | In Rupees |
|----------|--|------------------------|--------------------------------------|
| 1 | Base Norm for 1600 plants/ ha (As per base norm of Matrix for the year 2022-23) | 325623.00 x 5.00 ha | 1628115.00 |
| 2 | Soil Moisture Conservation (SMC) (As per base norm of Matrix for the year 2022-23) | 37415.00 x 9.175 ha | 343282.62 |
| 3 | Cost of 1 no. borewell for watering (one diesel pump set fitted with borewell for 5 ha plantation) (As per base norm of Matrix for the year 2022-23) | 502209.00 x 1 no. | 502209.00 |
| | Grand Total | | 2473606.62 Or say 24,73,700.00 |

(Rupees twenty-four lakh seventy-three thousand seven hundred) only.

PROVISION OF FUNDS AND FUND UTILIZATION

Rs. 24,73,700/- (Rupees twenty-four lakh seventy-three thousand seven hundred) 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

CHECK LIST SERIAL NUMBER: - 14.5

"DSS ANALYSIS CERTIFICATE"

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-

| SI. No. | Sl. Name of No. Range | | | | Classification of identified land (in Sq. KM) | n of iden | tified la | nd (in Sq | [. KM) | | Area su | itable fo | r plantat. (M) | ion (in | Area suitable for plantation (in Plantation Remarks Sq. KM) | Remarks |
|------------|--------------------------|------------------------------------|------------------------------------|-------------------------|--|----------------|------------------------------|-----------|--------|-------|----------------------------|----------------|-------------------|---------|--|-----------|
| | | (RF/PRF/PF/DPF/ Revenue Forest) | for CA/ ACA/ PCA (iii h2) | Very Dense Forest | VeryModeratelyOpenDenseDenseForestForestForest | Open Forest | Non- forest | Scrub | Water | Total | Open Non- Forest forest | Non- forest | Scrub | Total | Non- Scrub Water Total Open Non- Scrub Total (AR/ANR) forest | |
| | | | (III IIa) | | | | | | | | | | | | | |
| | 7 | 3 | 4 | 5 | 9 | 7 | 8 | 6 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| _ | Keonjhar | | CA | 0 | 4.00 | 5.00 | 0 | 0 | 0 | 00.6 | 5.00 | 0 | 0 | 5.00 | AR | (a)1600 |
| | | under Banspal | | | | | And Parish and Annual Parish | | | | | | | | | seedlings |
| | | Tahasil | | | | | | | | | | | | | | ner ha |

Divisional Forest Officer, Keonjhar Division.

Countersigned

Regional Chief Conservator of Forests, Rourkela Circle

SCHEME FOR ADDITIONAL COMPENSATORY AFFORESTATION OVER 6.00 HA OF DEGRADED FOREST LAND @Rs. 333/- PER MANDAYS (AS PER ONETIME COST NORM) IDENTIFIED IN JADIPADA RF UNDER KEONJHAR RANGE OF KEONJHAR FOREST DIVISION

IN RESPECT OF

JHUMKA PATHIRIPOSI PAHAR IRON ORE BLOCK COMING UNDER KEONJHAR FOREST DIVISION OF KEONJHAR DISTRICT

OF

M/s RUNGTA MINES LTD

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

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

CHAPTER-I

BRIEF NOTE ON THE PROPOSED FOREST DIVERSION PROPOSAL

Government of Odisha, pursuant to the Mines and Minerals (Development and Regulation) Act, 1957 and the Mineral (Auction) Rules, 2015 as amended from time to time, issued the notice inviting tender dated 07.07.2021 to commence the auction process for grant of mining lease for Jumka Pathiriposhi Pahar Iron ore block over an area of 158.509 Hectare for Iron Ore located in Koira Mining circle, district Sundergarh, Odisha. The e-auction process was conducted in accordance with the tender document for the said mineral block on 24.09.2021 and Rungta Mines Ltd. was declared as the 'Preferred Bidder' under Rule 9(9)(iii) or Rule 10 (1A) of Auction Rules, having quoted highest Final Price Offer vide letter No.MXIII(b) 46/2021/7738/DM Dated 05.10.2021 issued by Director of Mines Government of Odisha.

As required under Rule 10(1) of the Auction Rules and the tender document for the said mineral block, Rungta Mines Ltd. has made payment of the first installment, being 20% (twenty percent) of the upfront payment of Rs.49,21.44,251/-(Forty Nine Crore Twenty One Lakh Forty Four Thousand Two Hundred Fifty One) only through Treasury Challan vide e- Challan no. 0853/1886 dated 08.10.2021 at Cyber Treasury, Dist- Sundargarh

Accordingly, pursuant to Rule 10(2) of the Auction Rules and the terms of the Tender Document, the Government of Odisha is pleased to issue Letter of Intent (LOI) bearing no. IV(B)SM-49/2021/8716/SM, Bhubaneswar dated 28.10.2021 for grant of Mining Lease for Jumka Pathiriposhi Pahar Iron ore block for Iron ore located in 20 km south of Koira town in Kedeshala village Koidatahasil, Sundergarh district on 158.509 Hectare Area to Rungta Mines Ltd. for a period of 50 (fifty) years. Out of 158.509 Ha DGPS surveyed lease area, 147.803 Ha is in Sundargarh district and 10.706 Ha is in Keonjhar district. The total forest land included is 156.978 Ha. out of which 147.803 Ha is PRF in Sundargarh district and 9.175 Ha is Revenue forest in Keonjhar district. Remaining 1.531 Ha is Nonforest Govt land in Keonjhar district.

M/s Rungta Mines Ltd has provided the non-forest land over 9.175 ha in village Deri under Banspal Tahasil for raising compensatory afforestation. In the Decision Support System (DSS), the area coming under 4.175 ha MDF & 5.00 ha Open Forest. The plantation will be done over 5.00 ha @1600 seedlings as per report of Range Officer, BJP Range. The user agency has also provided the degraded forest land over 5.013 ha to accommodate the balance seedlings of 1175 Nos. for Additional Compensatory Afforestation.

The present scheme aims at preparation of a site-specific Compensatory Afforestation scheme over 6.00 ha of degraded forest land identified in Jadipada RF under Keonjhar Range of Keonjhar Division prepared at the prevailing wage rate @Rs. 333.00 per MD (as per onetime norm) with a maintenance period of ten years regarding Jhumka Pathiriposi Pahar Iron Ore Block of M/s Rungta Mines Ltd.

CHAPTER-II

DETAILS OF LAND IDENTIFIED FOR ADDL. COMPENSATORY AFFORESTATION

IDENTIFICATION OF DEGRADED FOREST LAND

II(1)- Details of identified Forest land-

The identified Forest land for Addl. Compensatory Afforestation is situated in Jadipada RF over 6.00 ha under Keonjhar Range in Keonjhar Forest Division.

II(2)- Character of existing vegetation of the identified site for Addl. Compensatory Afforestation-

The prevailing forest growth has been categorized under forest type- open jungle mainly sal in SoI Topo Sheet No. F45N10. The vegetation consists of Sal and its scattered associates like Jamu, Piasal, Asana, Sisoo, Kuruma, Karada, Dhaura, Khair, Sidha, Harida, Bahada and Ainla.

II(3)- Working Plan prescription for the identified site for Addl. Compensatory Afforestation-

The prescribed objectives of management for the identified forest block is depicted hereunder-

- 1. Regenerate of the degraded forest blocks including the areas once affected by shifting cultivation, by appropriate silvicultural inputs and protection measures with people's participation.
- 2. Improvement of the micro-climate and micro-edaphic conditions though soil and moisture conservation measures.
- 3. Encouragement of natural regeneration for increasing the biodiversity in forest crop.
- 4. Fulfillment of the bonafide needs of the local inhabitants for fuel wood, small timber, fodder and N.T.F.P. to the extent possible depending upon the productivity of the forests to ensure their participation.

II(4)- Suitability of the identified site for Addl. Compensatory Afforestation-

The identified site in Jadipada RF is a degraded patch with existing vegetation of Sal and Sal associates. Gaps are sporadically spread over the forest block. The topography of the area is mainly undulating hilly having good depth of red boulder mixed soil conducive for plantation under 200 seedlings/ ha as per field situation for 6.00 ha. The average maximum temperature is 40^{0} to 45^{0} C and minimum 5^{0} to 10^{0} C and annual rainfall varies from 1100 mm to 1800 mm. The maximum rainfall is received during the rainy season from July to September. The site has been demarcated with 4 feet RCC pillars with erection of durable signboard depicting Scheme, Year, User Agency, Area etc. on it.

CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

III(1)- GPS COORDINATES AND GPS MAP OF THE ADDL. COMPENSATORY AFFORESTATION SITE

The area has been demarcated through GPS survey and GPS survey data showing latitude and longitude of each point and their chainage with bearing is also enclosed in the map prepared thereon (Maps enclosed).

III(2) DECISION SUPPORT SYSTEM- ANALYSIS OF FOREST COVER MAP

The map of the proposed ACA land was processed using DSS for analysis of Forest cover over the area. The result obtained are depicted in the **Annexure- I.**

Decision Support System of degraded Forest land identified in Jadipada RF under Keonjhar Range

| Name of the site | Area identified for plantation (in ha) | Non-Forest (in Sq. Miles) | Open Forest (in Sq. Miles) |
|-------------------------------------|--|---------------------------|----------------------------|
| Jadipada RF under Keonjhar Range | 6.00 | 0.00 | 0.06 |

CHAPTER-IV

AGENCY RESPONSIBLE FOR ADDL. COMPENSATORY AFFORESTATION

IV(1)- AGENCY RESPONSIBLE FOR PLACEMENT OF FUNDS

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

IV(2)- AGENCY RESPONSIBLE FOR EXECUTION OF ADDL. 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 the Addl. Compensatory Afforestation.

CHAPTER-V

DETAILS OF WORK SCHEDULE PROPOSED FOR ADDL. 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.Dalbergia sissoo (Sissoo)
- 2. Azadirrachta indica (Neem)
- 3. *Terminalia belerica* (Bahada)
- 4. Pongamia pinnata (Karanja)
- 5. Emblica officinalis (Ainla)
- 6. Shorea robusta (Sal)

B.PRE-PLANTING OPERATION

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

Nursery will be raised @220 seedlings per ha including seedlings for 10% casualty replacement.

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

The planting area has been surveyed and demarcated with four feet height RCC pillars at inter visible distance (as per the direction of the Forest Range Officer, Keonjhar Range) with GPS coordinates, forward and backward bearing, pillar No. and distance between pillars inscribed in it. A GPS map in the scale of 1:4000 has been prepared along with GPS co-ordinates, forward & backward bearing, pillar to pillar distance and pillar numbers reflected in the map. A sign board has 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 45 cm x 45 cm x 45 cm. will be dug @200 seedlings for 6.00 ha in the 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 $\{(\text{size }12 \times 10) \text{ }(300 \text{ gauge})\}$ 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 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 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 6 nos.

D(5)-WATERING PROVISION

The entire plantation site and 1 no. borewell will be dug for watering over the plantation site (one diesel pump set fitted with borewell for 5 ha plantation) with maintenance and recurring expenditure for 5 years.

D(6)-PROTECTION AGAINST FIRE AND BIOTIC INTERFERENCE

It is proposed to protect the plantation from grazing by domestic animals using Fencing Angle Iron & Chain Link wire mesh. The total length of such Fencing Angle Iron & Chain Link wire mesh for the patch which comes to 1.14 Km or 1140 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 Jadipada VSS.

CHAPTER-VI

COST STRUCTURE OF PLANTATION, PROVISION OF FUNDS AND UTILIZATION

Base Cost Norm for ANR Plantation @200 seedlings per ha (18 months old seedlings) @333.00/- Mandays as per revised wage rate by Labour Commissioner, Odisha, Bhubaneswar vide Notification No. 6078/LC dated 19.10.2022 and onetime cost norm provided by the PCCF, Odisha, Bhubaneswar vide their O.O. No. 1109 dated 08.11.2021 (As per base norm of Matrix for the year 2022-23)

| | Base Cost Norms for Compensatory Afforestation Seedlings/Ha. [18 | months old : | seedling) | Regenerat | ion (ANR) @ | 200 |
|-----------|---|--------------------------------------|------------------|----------------------------|-----------------------------|-----------------------|
| SI. No | WAGE RATE Rs- | Preferable Period of Execution | No of Mandays | Labour Cost (In Rs.) | Matrial Cost (In Rs.) | Total cos (in Rs.) |
| | Oth Year (Advance wor | | | 5 1 | | 7 (11) |
| 1 | Survey, Demarcation and Pillar posting | Nov/Ilec | 2 | 622 | 0 | 622 |
| 2 | Preparation of Treatment Map (Digital Map) | Nov/Dec | 1 | 311 | 100 | 411 |
| 3 | Site preparation | Nov/Dec | 2 | 622 | () | 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 | (1,5 | 156 | 0 | 156 |
| 6 | Digging of pits (45 cm x 45 cm X 45 cm) in hard and gravelly soil | Feb/Mar | 8 | 2488 | 0 | 2488 |
| | Total Total | | 28.5 | 8863.5 | 100.0 | 8963.5 |
| | 1st Year/I | Planting Yea | r | 1 | | 7 |
| 1 | Refilling of pits by altering the dugout soil of the pits, application of organic compounds/ CDM/ FYM & mixing the same perfectly. | June/Jul | 1.5 | 466.5 | 1000 | 1467 |
| 2 | Transportation of 18 months old polythene bag seedlings in hired truck /tractor from the permanent/Mega nursery to planting site including Loading & unloading (Average lead of 10 Rkm) & Stacking the swedling (Rs.6/-/ Seedling, (220 nos.) | Jui/Aug | O O | O | 1320 | 1320 |
| 3 | Watering polythene bag seedlings at stacking site of plantation | Jul/Aug | 0.5 | 155.5 | 0 | 156 |
| 4 | Conveyance of pnlythene 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 | 4.5 | 1399.5 | () | 1400 |
| 5 | Cost of Fertilizer & Insecticide (a)NPK/Bio-fertilizer @ 50 gms/plant as basal dose = 10kg @ Rs.30/- per kg = Rs. 300.0 (b) Urea/Vermicompost/Mo Khata/any other fertilizer @ Rs. 150.00 (c) Insecticide/Bio-posticide @ 5 gms/plant= 1 kg @ Rs.150/- per kg = Rs. 150/- | Jul/Aug | 0 | () | 600 | 600 |
| 6 | Casualty Replacement @ 10% (20 nos.) | Jul/Aug | 0.5 | 186 | 0 | 156 |
| 7 | 1st weeding & Manuring | Aug/Sept | 2 | 622 | 0 | 622 |
| В | 2nd Weeding, Soil working (1mt. diametre around the plants) & Manuring | Oct/Nov | 3 | 933 | () | 933 |
| 9 | Fire line trazing & Inspection path | Feb/Mar | 3 | 933 | 0 | 933 |
| 10 | Watch & Ward including watering as per requirement | Aug-Mar | 8 | 2488 | Ø | 2488 |
| | Total | | 23 | 7153 | 2920 | 10073 |

| Sl. No | Items of work | Preferable Period of Execution | No of Mandays | Labour Cost (In Rs.) | Matrial Cost (In Rs.) | Total cost (ln Rs.) |
|-----------|---|--------------------------------------|------------------|----------------------------|-----------------------------|------------------------|
| 1 | Transportation of 20 seedlings from Nursery to plantation site including loading, unloading & conveyance by Tractor @ Rs.6/- per seedling | Jul | 0 | 0 | 120 | 120 |
| 2 | Planting for casualty replacement | Jul | 0.5 | 155.5 | 0.0 | 155.5 |
| 3 | Cost of Fertilizer & Insecticide: A) Cost of Insecticide/ Bio- pesticide(Themet/Forate) @ 5 gms/plant = 0.1 Kg @ Rs.150/- per kg = Rs.15/- B) Urea/NPK/Bia-fertilizer/Vermicompost/Mo Khata/any other fertilizer= Rs. 560/- | Jui | 0 | 0 | 575 | 575 |
| 4 | Weeding (Complete weeding), Manuring & Soil working, (1mt. diametre around the plants) | Sep/Oct | 4 | 1244 | 0.0 | 1244 |
| 5 | Fire line tracing (2 m. wide fire line over 400 m long) & Inspection path | Feb/Mar | 3 | 933 | 0.0 | 933 |
| fi | Watch & Ward including watering as per requirement | Apr/Mar | 12 | 3732 | 0.0 | 3732 |
| | Total | | 19.5 | 6064.5 | 695.0 | 6759.5 |
| | | Maintenance | <u> </u> | | | 1 |
| 3 | Cost of Fertilizer.: Urea/NPK/Bio-fertilizer/Vermicompost/Mo Khata/any other fertilizer= Rs. 560/- | Sep/Oct | 0 | 0 | 560 | 560 |
| 4 | Weeding (Complete weeding), Manuring & Soil working, (1mt. Diametre around the plants) | Aug/Sep | 4 | 1244 | 0 | 1244 |
| 5 | Fire line tracing (2 m, wide fire line over 400 m long) & Inspection path | Feb/Mar | 3 | 933 | 0 | 933 |
| 6 | Watch & Ward including watering as per requirement | Apr/Mar | 12 | 3732 | | 3732 |
| | Total | | 19.0 | 5909.0 | 560.0 | 6469.0 |
| | 4th Year | Maintenance | • | | | |
| ı | Fire line tracing (2 m, wide fire line over 400 m long) & Inspection path | Feh/Mar | 3 | 933 | 0 . | 933 |
| 2 | Watch & Ward including watering as per requirement | Λpr/Mar | 12 | 3732 | 0 | 3732 |
| | Total | | 15 | 4 6 6 5 | 0 | 4,665 |
| | 5th Year | Maintenance | : | | | |
| 1 | Fire line tracing (2 m. wide fire line over 400 m length) &inspection path | 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 | 4665 |
| | 6th Year | Maintenance | · | | ,,,,, | |
| 1 | Fire line tracing (2 m. wide fire line over 400 m length) & inspection path | 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 |
| | | Maintenance | <u>}</u> | 1 | | |
| 1 | Fire line tracing (2 m. wide fire line over 400 m length) &inspection path | Peny Mai | 3 | 933.00 | 0 | 933 |
| 2 | Watch & Ward including watering as per requirement | | 12 | 3732.00 | () | 3732 |
| | Total | ļ | 15.0 | 4665.0 | 0.0 | 4665.0 |

| S1. | ltems of work | Preferable Period of | No of Mandays | Labour Cost (In Rs.) | Matrial Cost (In Rs.) | Total cost (in Rs.) | |
|---|--|--|---|---|--|---|---|
| No 1 | Fire line tracing (2 m. wide fire line over 400 m | Execution Feb/Mar | 3 | 933.00 | 0 | 933 | |
| - 1 | length) &inspection path 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 I | Maintenance | | | | | |
| 1 | Fire line tracing (2 m. wide fire line over 400 m length) &inspection path | 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 | е | | | | |
| 1 | Fire line tracing (2 m. wide fire line over 400 ml length) & inspection path | 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 (show | /ing seedling | g cost sepa | rately) | | |
| SI. No | Year | No. person days | Labour cost @ Rs. 311/-per day (Rs) | Material Cost (In Rs.) | Monitoring Evaluation, Learning, Documenta tion and Other | Cost of Seedlings @Rs.50.31 per | TOTAL COST |
| | | | uay (KS) | | Contingenc y (5%) of (4+5+6) | seedlings | |
| 1 | 2 | 3 | 4 | 5 | y (5%) of (4+5+6) | 6 | 8 |
| <u>1</u> | | 28.5 | 4 8863.5 | 100 | y (5%) of (4+5+6) 7 436.50 | 6 0.00 | 9400.0 |
| 1 1 2 | 2 Oth year Ist year | 28,5 23.0 | 4 8863.5 7153.0 | 100 2920 | y (5%) of (4+5+6) 7 436.50 427.00 | 6 0.00 11068.00 | 9400.0 21568.0 |
| 1 | Oth year | 28.5 23.0 19.5 | 4 8863.5 7153.0 6064.5 | 100 2920 695 | y (5%) of (4+5+6) 7 436.50 427.00 240.50 | 6 0.00 11068.00 1006.00 | 9400.0 21568.0 8006.0 |
| 1 2 3 4 | 0th year 1st year 2nd year 3rd year | 28.5 23.0 19.5 19.0 | 4 8863.5 7153.0 6064.5 5909.0 | 100 2920 695 560 | y (5%) of (4+5+6) 7 436.50 427.00 240.50 231.00 | 6 0.00 11068.00 | 9400.0 21568.0 |
| 1 2 3 4 5 | 0th year ist year 2nd year 3rd year 4th year | 28.5 23.0 19.5 19.0 15.0 | 4 8863.5 7153.0 6064.5 5909.0 4665.0 | 100 2920 695 560 0 | y (5%) of (4+5+6) 7 436.50 427.00 240.50 231.00 135.00 | 6 0.00 11068.00 1006.00 0.00 | 9400.0 21568.0 8006.0 6700.0 |
| 1 2 3 4 5 6 | 0th year ist year 2nd year 3rd year 4th year 5th year | 28.5 23.0 19.5 19.0 15.0 15.0 | 4 8863.5 7153.0 6064.5 5909.0 4665.0 4665.0 | 100 2920 695 560 | y (5%) of (4+5+6) 7 436.50 427.00 240.50 231.00 | 6 0.00 11068.00 1006.00 0.00 | 9400.0 21568.0 8006.0 6700.0 4800.0 |
| 1 2 3 4 5 6 | Oth year ist year 2nd year 3rd year 4th year 5th year 6th year | 28,5 23.0 19.5 19.0 15.0 15.0 | 4 8863.5 7153.0 6064.5 5909.0 4665.0 4665.0 | 100 2920 695 560 0 | y (5%) of (4+5+6) 7 436.50 427.00 240.50 231.00 135.00 135.00 | 6 0.00 11068.00 1006.00 0.00 0.00 | 9400.0 21568.0 8006.0 6700.0 4800.0 |
| 1 2 3 4 5 6 7 8 | Oth year Ist year 2nd year 3rd year 4th year 5th year 6th year 7th year | 28.5 23.0 19.5 19.0 15.0 25.0 15.0 | 4 8863.5 7153.0 6064.5 5909.0 4665.0 4665.0 4665.0 | 100 2920 695 560 0 0 | y (5%) of (4+5+6) 7 436.50 427.00 240.50 231.00 135.00 135.00 | 6 0.00 11068.00 1006.00 0.00 0.00 0.00 0.00 | 9400.0 21568.0 8006.0 6700.0 4800.0 4800.0 4800.0 4800.0 |
| 1 2 3 4 5 6 7 8 9 | 0th year 1st year 2nd year 3rd year 4th year 5th year 6th year 7th year 8th year | 28,5 23.0 19.5 19.0 15.0 15.0 | 4 8863.5 7153.0 6064.5 5909.0 4665.0 4665.0 | 100 2920 695 560 0 0 | y (5%) of (4+5+6) 7 436.50 427.00 240.50 231.00 135.00 135.00 135.00 135.00 | 6 0.00 11068.00 1006.00 0.00 0.00 0.00 0.00 0.00 0.0 | 9400.0 21568.0 8006.0 6700.0 4800.0 4800.0 4800.0 4800.0 4800.0 |
| 1 2 3 4 5 6 7 8 | 0th year Ist year 2nd year 3rd year 4th year 5th year 7th year 8th year 9th year | 28.5 23.0 19.5 19.0 15.0 25.0 15.0 15.0 | 4 8863.5 7153.0 6064.5 5909.0 4665.0 4665.0 4665.0 4665.0 | 100 2920 695 560 0 0 0 0 | y (5%) of (4+5+6) 7 436.50 427.00 240.50 231.00 135.00 135.00 135.00 135.00 | 6 0.00 11068.00 1006.00 0.00 0.00 0.00 0.00 0.00 | 9400.0 21568.0 8006.0 6700.0 4800.0 4800.0 4800.0 4800.0 |

Note:

- 1 Priority must be given to the uningenous 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 LBCD, 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 Bamhon twigs fencing may be prefered to CA plantations taken up in degraded forest area.
- Watering facilities for procurement of water & watering may be adapted as per the availability of water.
- 6 The Cost Norm of various items can be changed with the approval of the concerned RCCFs keeping the overall cost norm fixed for each Financial Year

Shoot IF-you Superion & NO EC Act

Matrix for ANR-200 Plants / Ha

| 10 | 9 | 593 | 7 | 6 | 5 | 4 | w | 23 | 11 | 821 | SJ. |
|----------------|---------|---------|---------|---------|-------------------------------|---------|---------|---------|---------|-----------|-----------------------|
| 2030-31 | 2029-30 | 2028-29 | 2027-28 | 2026-27 | 2025-26 | 2024-25 | 2023-24 | 2022-23 | 2021-22 | Base Norm | Commence ment Year |
| | | | | | | | | | 9400 | 9400 | |
| | | | | | | | | 9870 | 22646 | 21568 | = |
| - | | | | | | | 10364 | 23778 | 8326 | 8006 | = |
| | | | | | | 10882 | 74957 | 9267 | 7756 | 6700 | ₹ |
| | | | | | 11425 | 26215 | 9730 | 8144 | 5834 | 4800 | < |
| | | | | 11997 | 27526 | 10217 | 1558 | 6126 | 6126 | 4800 | <u> </u> |
| | | | 12597 | 28902 | 10728 | 89779 | 6432 | 6432 | 6432 | 4800 | ≦ |
| | | 13227 | 3034/ | 11264 | 9428 | 6754 | 6754 | 6754 | 6754 | 4800 | Si . |
| | 13888 | 31964 | 1:827 | 9999 | 7092 | 7032 | 7092 | 7092 | 7092 | 4800 | × |
| 14582 | 3345/ | :2418 | 10394 | 7447 | 7447 | 7447 | 7447 | 7447 | 7446 | 4800 | × |
| 35130 | 13039 | 10914 | /819 | 7819 | 7819 | 7819 | 7819 | 7818 | 7819 | 4800 | × |
| 13601 | 11460 | 32:0 | 8210 | 3210 | s ?10 | 8210 | 3209 | 3210 | | | ΧĬ |
| 12033 | 8621 | 8621 | 8521 | 8621 | 8621 | 8619 | 1,798 | | | | XII |
| 9052 | 905.1 | \$052 | 9052 | 9052 | 9050 | 9052 | - | | | | ž |
| 9505 | 5058 | 9505 | 3505 | 9503 | 9505 | | | | | | ž |
| 0866 | 0866 | 9980 | 9978 | 0866 | | | | | | | ž |
| 104 /9 | 10479 | 10477 | 10479 | | | | | | | | ₹ |
| 11003 | 11001 | 11963 | | | | | | | | | XVIII |
| 11551 | 11553 | | | | | | | | | | × |
| 15 14 14 | | | | | e validatiska savat sliki kar | | | | | | × |
| | | | | | | | | | | | <u> </u> |
| 149137 | 142035 | 135271 | 128829 | 122694 | 116852 | 111286 | 105986 | 100938 | 16196 | | Total Cost |

Matrix for ANR-200 Plants/ Ha

Page **9** of **18**

APCCF (Forest Diversion & NO, FC Act)

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

| | | | Annexure-11 |
|--------|---|--------------------------------------|---------------|
| Cost N | orms for creation of Compensatory Afforestation with Stabilization of Soil & C | onservation of N | ioisture (100 |
| | WAGE RATE Rs- 311/- PER DAY | | |
| Sl.No | Item of Wurks | Preferable Period of Execution | Total Cost |
| | 6th Year (Pre-Planting Operation) | | |
| 1 | NI | | 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 requirment 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 mittal year cost | Apr/Jul | 3,032 |
| | 4th Year | | |
| 5 | Maintenance of SMC structures @ 15 % of initial year cost | Apr/jul | 3,032 |
| | Tutal | | 32,343.0 |

| | Abstract | | | | |
|----------|----------|-----------------|--------------------------------------|------------------|---------------------|
| SL No | Year | No, person days | Labour cost @ Rs. 311/-per day | Material Cost | Total cost [Rs.] |
| 1 | Oth 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.

APCCF (Forest Diversion & NO. FC Act

Matrix for (SMC)

| 55274 | | 5003 | 5715 | 5445 | 5183 | 3/978 | С | | | | | | | | | Para section of the Administration of the Ad | 2030-31 | 10 |
|-----------|---|------|------|------|------|----------|-------|-------|-------|------------|-------|-------|-------|-------|-------|--|-----------------------|-----|
| 52642 | | | 5717 | 5443 | 5186 | 4935 | 31360 | 0 | | | | | | | | | 2029-30 | œ |
| 50136 | | | | 5445 | 5184 | #: ## | 4700 | 79867 | O | | | | | | | | 2028-29 | 00 |
| 47749 | | | | | 5136 | #937 | .:70: | 4477 | 28443 | C 2 | | | | | | | 2027-28 | 7 |
| 45475 | | | | | | :630 | 4702 | ÷480 | 426¢ | 27090 | ٥ | | | | | | 2026-27 | o |
| 43310 | | | | | | | 1704 | 4478 | 4257 | 4051 | 25800 | О | | | | | 2025-26 | Ų. |
| 41248 | | | | | | | | 4480 | 4255 | ±054 | 3868 | 24571 | Ö | | | | 2024-25 | 4 |
| 39284 | | | | | | | | | 4257 | 4067 | 3870 | 2684 | 23401 | 9 | | | 2023-24 | نيز |
| 37415 | | | | | | | | | | 4064 | 3869 | 3686 | 3509 | 22287 | 0 | | 2022-23 | N |
| 35633 | | | | | | | | | | | 387C | 3685 | 3510 | 3342 | 21226 | α | 2021-22 | ы |
| | | | | | | | | | | | 3032 | 3032 | 3032 | 3032 | 20215 | 0 | Base Norm | Ba |
| Total Cos | × | ×γ | XIV | XII | × | <u>×</u> | × | × | ≦ | ≦ | ≤ | < | ₹ | | = | _ | Commence ment Year | NO. |

In Rupees

Matrix for (SMC)

APCCF (Forest Diversion & NO, FC Act)

Fencing Model F-II

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

| - Company | ncing for Compensatory Plantation raised outside the (250 R | mt/Ha.) | .us using A | ogie II VI | . w Gudin Elli | n with musii |
|--|---|--|--|---|---|---|
| | WAGE RATE R | | AY | | | |
| SI. No | Items of work | Preferable Period of Execution | Man days | Wages | Material cost (Rs) | Total Cost (R: per Ha.) |
| | | ar (FPO) | | | | |
| 1 | Earth work (Excavation of hote) in Hard soil at a distance 3 in. C 40m x 0 40m x 0 40m - 2.064 x H4 > 5.376 cum @ Rs 140/ cum - Rs, 753. | and disposed and d | 2.12 | 752 62 | 0.0 | 752.6 |
| 2 | Lement concrete (T. 4: B) using 46 min BHG metal B4 X 0.40m X 0.40m X 0.10m + 1.344 @ 3755 94/cmm | | 0 | û | 5,047.4 | 5,047.4 |
| 3 | Angle Iran pole of size 50 nm; X 50 nm; X 6 nm; of height 2-10 au. 84 x 2.40 - 201.60 Squtt. 60 4.50/kg/ Squn 907-20 kg 60 69.50 per kg | | Andrews of the state of the sta | | G3,050 O | 63,05(3.0 |
| | Lement concrete 1 7 4 196 18mg the Gron origor pelle Glong 12 inm BHG Chaps 144 X 0 40m X 0.40m X 0.30m ≥ 4.032 cam @ 5486.77/cam | 7 THE S. WHEN THE P. S. C. S. C. S. S. C. S. S. C. S. | The second secon | Amerikan meneringa n | 22,123.0 | 22,123.0 |
| 5 | Cost of Chain link mess using 4 mm Dia GI wire having gap sizu 50 mm X 50 mm 250 Rbst X 2 10 at = 525 So mt 62 331/Sam; # Rs. 1 73 775 | ed Pillianin of Managery 1 (1996) - I menteringgery cross | ## ## ## ## ## ## ## ## ## ## ## ## ## | ************************************** | 1,73,775.0 | 1,73,775.0 |
| () | 250 Rent X 2 10 at = 525 Sq out @ 331/Sqms = Rs 1,73,275 Double cost parenting of new angel pille over a cost of primer using good quality enamals gove R4 × 2.10 x 0.20 = 35.28 square @ Rs 108 H0/Squit | P. Sermer Inhabitation T. e consequent all manufactures (Consequent Consequent Conse | | | 3,838.0 | 3,838.0 |
| 7 | Pointing of III shall Fish bases 750 x 2 111 x 2 - 4050/14 - 165 Such, p# Rs. 100 80 Super. Transpotation of Chain link mess, Iron angle, Straighening & design of | | | The contract of the second | 11.424.0 | 11,424.0 |
| 17 | shan bak mass ste. 63 2% of the total root. | | | | 5.600.0 | 5,600 0 |
| **** | LATOTAL | X 3 James X 1999 - 1990 Süüreyi S Jameshaka 1990 yaa | 2.42 | 752.62 | 2,84,857.4 | 2.85,610.0 |
| ile i | per running mt, 2,85,610/ 250= Rs, 1142/Rmt | | | | | |
| 1 | No Maistenance is expuseed. | aintenance 5m/Get Iaintenance | 0 | 0 | C | <u> </u> |
| | Manate states of some times fence \$8.1% per rounting act cost of instabilities on 1st ye 1142x 135 - 1142 aay is x 13 | Sept //Act | And the second s | | :1000 | 11000 |
| | 3rd Year M | La Cartalana ana an | processing and the second of t | | * Comment of Street, Comment of the | interest to the second |
| | | и пенанее | | - Marie - Jan - Marie - | giber dissert street extensive server | |
| | Maintenance of some income as fence as 12s per remongrish, cost of installation in 1st yr | Seja /Ort | () | \$ \$. \$ | 11000 | 11003 |
| 1 | Minitenance of ware mess fence to 1% per rancing interest of asstallation in 1st ye. 1142x 1% - 1142 say 8s. 1) 4th Your M | | - Inches | A definition of the second of | 11000 | 11000 |
| and the second s | Minitenance of ware mess fence to 1% per randomport cost of costallation in 1st ye. 1142x 1% - 1142x 55y 8s. 1) | Sept 70m | 0 | | 1 1000 1 1000 | 11000 11000 |
| | Maintenance of ware mess fence & 1% per timong into east of costallation in 1st yr. 1142x 196 - 11 42 say 8x. 1) 4th Year M Maintenance of wire mess times & 196 per timong into east of installation in 1st yr. 1146x 196 - 1142 say 8x. 1) Sth Year M | Seja /Oct aintenance | | | | Terretronister - commentence germanica de como a giuncia de como estre de como estre de como estre de como est |
| The state of the s | Miniteriance of some mess fence & 1% per minimp intenst of installation in 1st yr. 1142s 196 - 1142s sy 8s. 1) 4th Year M. Maniteriance of wire mess fence & 1% per running intenst of installation in 1st yr. 114cs 196 s 1142 my Re. 1) Sth Year M. Maniteriance of wire mess fence to 1% per running intenst in installation in 1st yr. 114cs 196 s 1142 my Re. 1) Maniteriance of wire mess fence to 1% per running intenst in installation in 1st yr. 1142 196 s 1142 my Re. 1) | Sept /Oct aintenance Sept /Oct aintenance Sept /Oct | | | | |
| The state of the s | Maintenance of ware mess fence & 1% per ranning into eact of cost of austaliation in 1st yr. 1142s 196 - 1142s ay 8s. 1) 4th Year M. Maintenance of wire mess fence & 1% per running into cost of installation in 1st yr. 114cs 196 s 1142 my Re. 1) Sth Year M. Manutenance of wire mess fence to 1% per running into cost in distillation in 1st yr. | Sept /Oct aintenance Sept /Oct aintenance Sept /Oct | 0 | | 11(4)10 | 11000 |
| The state of the s | Miniteriance of some mess fence & 1% per minimp intenst of installation in 1st yr. 1142s 196 - 1142s sy 8s. 1) 4th Year M. Maniteriance of wire mess fence & 1% per running intenst of installation in 1st yr. 114cs 196 s 1142 my Re. 1) Sth Year M. Maniteriance of wire mess fence to 1% per running intenst in installation in 1st yr. 114cs 196 s 1142 my Re. 1) Maniteriance of wire mess fence to 1% per running intenst in installation in 1st yr. 1142 196 s 1142 my Re. 1) | Sept /Oct aintenance Sept /Oct aintenance Sept /Oct | 0 | | 11(4)10 | 11000 |
| The state of the s | Maintenance of vare mess fence & 1% per ranning into eact of austaliation in 1st yr. 1142s 136 - 1142 say 8s. 1) 4th Year M. Maintenance of wire mess fence & 1% per ranning into eact of installation in 1st yr. 1142s 136 - 1142 say 8s. 1) Sth Year M. Maintenance of wire news fence & 1% per ranning into eact in installation in 1st yr. 1149 - 128 - 1142 say 8s. 1) 6th Year M. Maintenance of wire rans fence & 1% per ranning into a cot installation in 1st yr. 1142s 136 - 1142 say 8s. 1) 7th Year M. Maintenance of wire rans fence & 1% per ranning into a cot installation in 1st yr. 1142s 136 - 1142 say 8s. 1) | Sept/Oct aintenance Sept/Oct aintenance Sept/Oct aintenance Sept/Oct aintenance | 11 | 0 | 11000 11000 11000 | 11000 11000 11000 |
| The state of the s | Maintenance of ware mess fence & 1% per ranning into east of castallation in 1st yr. 1142x 136 - 11 42 say 8x. 1) 4th Year M. Maintenance of wire mess tence & 136 per running into east of installation in 1st yr. 1142x 136 x 1142 my 8x. 11 5th Year M. Maintenance of wire mess fence to 136 per running ret cast or installation in 1sry: 1149 - 128 - 1142 my 8x. 11 6th Year M. Maintenance of wire rooss fence to 138 per running into each or installation in 1st yr. 1142x 136 x 1142 my 8x. 11 7th Year M. | Sept/Oct aintenance Sept/Oct aintenance Sept/Get aintenance Sept/Get aintenance | 0 | O ff | 11000 11000 | 11000 |
| The state of the s | Manuferance of wire mess fence to 1% per running into each of cost of cost of antidiation in 1st yr. 1142s 1% - 1142s ay 8s. 1) 4th Year M. Manuferance of wire mess fence to 1% per running into each of installation in 1st yr. 1142s 1% - 1142 my 8s. 1) Sth Year M. Manuferance of wire mess fence to 1% per running into each in distillation in 1st yr. 1142 1% - 1142 my 8s. 1) Manuferance of wire runs fence to 1% per running into each in distillation in 1st yr. 1142x 1% - 1142 my 8s. 1) 7th Year M. Misotenance of wire mess fence to 1% per running into each of match in 1st yr. | Sept/Oct aintenance Sept/Oct aintenance Sept/Cct aintenance 5: pt/Oct aintenance Sept/Oct | 11 | 0 | 11000 11000 11000 | 1100e 11000 11000 |
| The state of the s | Manufacturing of vary mess fence to 1% per running intenst of austallation in 1st yr. 1142x 136 - 1142 say 8x. 1) Ath Year M. Manufacturing of wire mess tense to 136 per running intenst of installation in 1st yr. 1146x 136x 1142 say 8x. 1) Sth Year M. Manufacturing of wire news fence to 136 per running intenst in installation in 1st yr. 1140x 136x - 1142 say 8x. 1) Oth Year M. Manufacturing of wire news fence to 135 per running intension in 1st yr. 1140x 136x - 1142 say 8x. 1) 71h Year M. Manufacturing of wire mess fence to 136 per running intenst of installation in 1st yr. 1142x 136x - 1142 say 8x. 11 Sth Year M. Manufacturing of wire mess fence to 136 per running intenst of installation in 1st yr. Manufacturing of wire mess fence to 136 per running intenst of installation in 1st yr. Manufacturing of wire mess fence to 136 per running intenst of installation in 1st yr. Manufacturing of wire mess fence to 136 per running intenst of installation in 1st yr. | Sept/Oct adintenance Sept/Oct adintenance Sept/Oct adintenance Sept/Oct adintenance Sept/Oct adintenance Sept/Oct adintenance | 11 | 0 | 11000 11000 11000 | 1100e 11000 11000 |
| The second secon | Manufacturing of various as fence to 1% per running interest of austrification in 1st yr. 1142x 136 - 1142 say 8x. 1) Ath Year M. Manufacturing of wire mess tence to 136 per running interest of installation in 1st yr. 1146x 136x 1142 say 8x. 1) Sth Year M. Manufacturing of wire mess fence to 136 per running interest in austrification in 1st yr. 1142x 136x - 1142 cay 8x. 1) Oth Year M. Manufacturing of wire mess fence to 136 per running interest of installation in 1st yr. 1142x 136x - 1142 cay 8x. 1) 71h Year M. Manufacturing of wire mess fence to 146 per running interest of installation in 1st yr. 1142x 136x - 1142 say 8x. 11 Sth Year M. Manufacturing of wire mess fence to 136 per running interest of installation in 1st yr. Manufacturing of wire mess fence to 136 per running interest of installation in 1st yr. Manufacturing of wire mess fence to 136 per running interest of installation in 1st yr. | Sept/Oct adintenance Sept/Oct adintenance Sept/Oct adintenance Sept/Oct adintenance Sept/Oct adintenance Sept/Oct adintenance | 0 11 0 | 0 8 | 11000 11000) 1000 | 11000 11000 11000 |

| SL No | Rems of work | Preferable Period of Execution | Man days | Wages | Material cost (Rs) | Total Cost (Rs. per Ha.) |
|----------|---|--------------------------------|----------|-------|-----------------------|-----------------------------|
| 1 | Maritmance of wire cress fence 60 1% per running inticost of installation in 1st yr. 1142x 136 = 11 42 say Rs. 11 | Sept./Oct | 0 | 0 | 11000 | 11000 |

| ! ! | Abstract | | | | |
|-----------|-----------|--------------------|--|---------------|------------------|
| Sl. No | Year | No. perseo days | Labour cost @ Rs. 311/- per day | Material Cost | Total cost (Rs.) |
| 1 | Oth year | 2.42 | 752.6 | 284857.4 | 285610.0 |
| 2 | 1st year | 0.0 | 0.0 | 0.0 | 0.0 |
| 3 | 2nd year | 0.0 | 0.0 | 11000.0 | 11000.0 |
| 4 | 3rd year | 0.0 | 0.0 | 11000.0 | 11000.0 |
| 5 | ith year | 0.0 | 0.0 | 11000.0 | 11000.0 |
| fi. | 5th year | 0.0 | D.0 | 11000.0 | 11000.0 |
| 7 | fill year | 0.0 | 0.0 | 11000.0 | 11000.0 |
| 0 | 7th year | 0.0 | 0.0 | 11600.0 | 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 |

APCEF (Forest Diversion & NO, FC Act)

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

| E | [w | 8 | 7 | 6 | I v | 45 | L. | 1.2 | | Base | 1111 |
|----------------------|---|---|--|--|--|--|---|--|----------------------|--|---|
| 2030-31 | 7029-30 | 2028-29 | 2027-28 | 2026-27 | 2025-26 | 2024-25 | 2023-24 | 2022-23 | 2021-22 | Base Norm | commercial |
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| | | | | | | 3805a85 | c | 12.5 | 1,77,52 | 11000 | ₹ |
| | | | engeneral () - () and de la configuração | S. Alternation of the state of | A Parameter of the Control of the Co | and the second s | : 3*6: | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 17.7 | 11000 | < |
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| | | | 382745 | -2 | 74753 | **** | 1172 | | 14745 | 11000 | á |
| | | :3:22 | 8.3 | 17.17.5 | Class. | 25478 | 12.78 | \$5,477 | 15.47% | 11000 | É |
| - | 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | 12.5 | | | 5 | | 15. | 0. | 11000 | ⋝ |
| 6 | 2 y | | 1 | 27.65 | 7.6 | 17.65 | | 2775 | 3 | 11000 | × |
| 13 | 7. | | 26 | 100 | | 173.8 | 17.5 | | 175. | 1:000 | * |
| 56 66 | 36 | E. | 70 10 10 | 1 22 22 | 632 | .383.4 | (9) (9) | \$ 60 60 5: | | | × |
| | 27.6 | 3 | 3 | | | 16/52 | 3/23 | | - | *************************************** | >4. |
| 3 | 133 | | | | | | | | | | × |
| -2. | 12 | 2.25 | | 327.6 | 1780 | | | | | | × |
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| 2 : | 140 | | É | | | | months of the removature is a confidence | V V V V V V V V V V V V V V V V V V V | | TOTAL COMMENSATION OF THE PROPERTY OF THE PROP | XV. |
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| 7748 | | | | 7 | Managara kuta at Managara | v v. | MM000 1 | | | | * |
| | | 1 | | | | | | The Control of the Co | TOTAL MANAGEMENT | | Ď. |
| 550532 | 519537 | 67X65 | 156795 | 533242 | 509700 | 483437 | 452315 | 440749 | 41933: | | Fotal Cost |

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

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APCCE (Forest Diversion & NO, FC Act.)

Watering Model – W-II

Watering Provision to CA Plantation

| Watering Model-W-II | | |
|---|----------------|--------|
| Watering provision to CA Pla | | |
| Diesel pump set with Bore well (1 pump set + Bore well for 5 | | |
| Year of Installation (0th Ye | | |
| 1 Cost of Borewell | 1,50,000 | |
| 2 Cost of Diesel pump set SHP | 60,000 | |
| 3 Hiesel pump set & assessories 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/ 5D00)= Rs. 51/- | | 51,000 |
| Cost of Waler per Ha. = Rs. 51,000/- | | 31,000 |
| 1st Year Watering | | |
| 1 Recurring expenditure i.e Diesel, Mobil, Engine Dil, etc. for pumping Water -21 x 10 | 00= | 21,000 |
| , Watering 1000 Plants (Nov-Mar.) @ 200 plants/MII with 7 days rotation | 1 | 31,10D |
| 20 MD x 5 months : 100 MH x 311 : | | |
| | T'otal | 52,100 |
| 2nd Year Watering | | |
| 1 Recurring expenditure i.e Diesel, Mirbil, Engine Oil, etc. für pumping Waier -21 x 10 | 00: | 21,000 |
| Maimenance 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 20 MD x B months = 160 MD x 311 = | days rotation | 49,760 |
| | Total | 78,410 |
| 3rd Year Watering | | |
| 1 Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water -21 x 10 | 00- | 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 20 Mil x 8 months = 160 MD x 311 = | days rotation | 49,760 |
| 20 MH x 8 months - 100 MD x 311 % | Total | 78,410 |
| 4th Year Watering | total | 70,410 |
| 1 Recurring expenditure to Diesel, Mobil, Engine Dil, etc. for pumping Water -21 x 10 | B/h | 21,000 |
| Manuerance Dieses pump set etc. @ 15 % of the installation cust. | 00. | 7,650 |
| Watering 1000 Plants (April- June & Nov-Mar 8 months) @ 200 plants/MD with 7 | dinus ratation | 7,030 |
| 20 MD x 8 months = 160 MD x 311 = | | 49,760 |
| | Totai | 78,410 |
| 5th Year Watering | | |
| 1 Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water -21 x 100 | 00= | 21,000 |
| Maintenance Diesel pump set etc. @ 15 % of the installation crist. | | 7,650 |
| Watering 1000 Plants (April- June & Nov-Mar 8 months) @ 200 plants/MD with 7 (20 MD x 8 months = 160 MD x 311 | days rotation | 49,760 |
| | Total | 78,410 |

| Γ | Abstract | | | | |
|-----------|----------|--------------------|---|------------------|---------------------|
| SJ. No | Year | No. person days | Labour enst @ Rs. 311/-per day | Material Cost | Total cost (Rs.) |
| 1 | Oth year | Ü | 0.0 | 51000.0 | 51000.0 |
| 2 | 1st year | 100.0 | 31100.0 | 21000.0 | 52100.0 |
| 3 | 2nd year | 160 | 49760.D | 28650.0 | 78410.0 |
| 4 | 3rd year | 160 | 49760.0 | 2865D.0 | 78410.0 |
| 5 | 4th year | 160 | 49760.0 | 28650.0 | 78410.0 |
| 6 | 5th year | 16D | 49760.0 | 28650.0 | 78419.0 |
| | Total: | 740 | 230140 | 186600 | 4,16,740 |

APCCF/(Forest Diversion & NO, FC Act)

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

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

Page **16** of **18**

ARCCF (Forest Diversion & NO, FC Act)

TOTAL COST OF PROJECT

| S. No | Item of Work | Unit price | In Rupees |
|----------|--|-----------------------------------|--------------------------------------|
| 1 | Cost of Base Norm for ANR plantation @200 plants/ ha (Year 2022-2023) | 100938.00 x 6.00 ha | 605628.00 |
| 2 | Cost of Soil Moisture Conservation (SMC) (2022-2023) | 37415.00 x 6.00 ha | 224490.00 |
| 3 | Cost of Angle Iron & Chain Link wire mesh Fencing with 10 years maintenance @4.40,289/- per 250 rmt/ha over 1.14 Km. | 440289.00 / 250 rmt x 1140 rmt | 2007717.84 |
| 4 | Cost of 1 no. borewell for watering (one diesel pump set fitted with borewell for 5 ha plantation) (2022-2023) | 502209.00 x 1 No. | 502209.00 |
| | Grand Total | | 3340044.84 Or say 33,40,100.00 |

(Rupees thirty-three lakh forty thousand one hundred) only

PROVISION OF FUNDS AND FUND UTILIZATION

Rs. 33,40,100/- (Rupees thirty-three lakh forty thousand one hundred) only shall be deposited by the User Agency i.e. M/s Rungta Mines Ltd on approval of the scheme to the Ad-hoc CAMPA Account and the funds will be utilized for raising of Addl. 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

Addl. Compensatory Afforestation will be taken up in the identified site by the Range Officer, Keonjhar Range of Keonjhar Division. The Range Forest Officer, Keonjhar 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. GPS co-ordinates along with other required informations of Addl. 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 Keonjhar 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, Keomhar Division

CHECK LIST SERIAL NUMBER: - 14.5

"DSS ANALYSIS CERTIFICATE"

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-

| Remarks | | | | 17 | @200 | seedlings | per ha |
|---|--|--------|---------|----------|-------------|----------------|--------|
| Area suitable for plantation (in Plantation Remarks Sq. KM) | Non- Scrub Water Total Open Non- Scrub Total (AR/ANR) Forest | | | 16 | ANR | | |
| tion (in | Total | | | 15 | 00.9 | | |
| or planta KM) | Scrub | | | 13 14 15 | 00.9 0 | | • |
| iitable fo | Non- forest | | | 13 | 0 | | |
| Area su | Open Forest | | | 12 | 00.9 00.9 | | |
| | Total | | | 11 | 00.9 | | |
| q. KM) | Water | | | 10 | 0 | | |
| nd (in S | Scrub | | | 6 | 0 | | |
| ntified la | Non- forest | | | 8 | 0 | | |
| n of ide | Open Forest | | | 7 | 00'9 | | |
| Classification of identified land (in Sq. KM) | Very Moderately Open Dense Bense Forest | Forest | | 9 | 0 | | |
| | Very Dense | Forest | | 5 | 0 | | |
| Area identified | for CA/ ACA/ | PCA | (in ha) | 4 | ACA | | |
| Name of the Forest Block | (RF/PRF/PF/DPF/ Revenue Forest) | | | 3 | Jadipada RF | under Keonjhar | Range |
| Sl. Name of Range | | | | 2 | Keonjhar | | |
| SI. | | | | - | - | | |

Divisional/Forest Officer, Keonjhar Division.

Countersigned

Regional Chief Conservator of Forests, Rourkela Circle