ANNEXURE-18

SCHEME FOR COMPENSATORY AFFORESTATION OVER 83.602 HA OF NON- FOREST GOVT. LAND @Rs. 326/- PER MANDAYS (AS PER ONETIME COST NORM) IDENTIFIED IN VILLAGE TALABARADA UNDER BANSPAL TAHASIL BJP RANGE OF KEONJHAR FOREST DIVISION

IN RESPECT OF

CHANDIPOSI IRON ORE BLOCK COMING UNDER BONAI FOREST DIVISION OF SUNDARGARH 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

M/s Rungta Mines Ltd has been declared as preferred bidder for grant of Mining Lease of Chandiposhi Iron ore block. The Letter of Intent has been issued by Government of Odisha, Steel & Mines Department vide letter No. 8719/SM, Bhubaneswar, dated 28.10.2021. As per the data provided by Directorate of Mines, Steel & Mines Department, Government of Odisha, the total mining lease DGPS surveyed area is 131.580 Ha, out of which 83.602 Ha area is forest land (DLC forest-57.215 Ha + Revenue forest-26.387 Ha) and remaining 47.978 Ha is non-forest land.

Now for use of 83.602 Ha of forest land for the said purpose, the user agency has applied through online for diversion of the forest land under section 2 of the Forest Conservation Act, 1980, for approval of the Central Government. The proposal number is (FP/OR/ MIN / 150057 /2021, State serial No-OR-099 / 2021 dated 22.12.2021)

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 Talabarada under BJP Range of Banspal Tahasil allotted for the said purpose vide letter No. 2022/Rev dt. 17.06.2022 of Collector, Keonjhar out of 83.602 ha. The CA scheme is prepared over 71.00 ha excluding 13.00 ha non-forest land which coming under MDF Category at present prevailing wages rate i.e. @Rs. 326.00 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).

CHAPTER- II

DETAILS OF LAND IDENTIFIED FOR COMPENSATORY AFFORESTATION

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

The site for Compensatory Afforestation has been identified in village Talabarada under Bansapal Tahasil in B.J.P. Range of Keonjhar Forest Division over 83.602 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 83.602 ha in respect of Chandiposi Iron Ore Block coming under Bonai Forest Division of Sundargarh 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 No	Plot No	Kisam	Total Area(ha)	Area Identified (in ha)
1	24 (AAA)	10(P)	PARBAT-I	16.000	0.866
2		11(P)	PARBAT-I	16.000	7.627
3		12(P)	PARBAT-I	16.000	13.279
4		13(P)	PARBAT-I	16.000	1.830
5		36(P)	PARBAT-I	16.000	13.708
6		40(P)	PARBAT-I	17.440	4.244
7		41(P)	PARBAT-I	16.000	5.372
8		42(P)	PARBAT-I	16.000	4.481
9		43(P)	PARBAT-I	16.000	14.662
10		45(P)	PARBAT-I	10.240	6.512
11		68(P)	PARBAT-I	12.240	11.021
Total Area					**83.602**

D. SUITABILITY OF IDENTIFIED SITE FOR COMPENSATORY AFFORESTATION.

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

The non-forest Govt. land identified in village Talabarada is in one patch situated on upland with gentle slope is suitable for Compensatory Afforestation. As per the report of the Range Officer, BJP Range vide his memo No 531 dt. 20.07.2022 (Copy enclosed) "The identified non-forest Govt. land is continuous patch having canopy density below 0.4. Out of 83.602 ha, 13.00 ha having MDF (ANR without Gap), in 32.00 ha is non-forest land it can be suitable for plantation @1600 seedlings/ ha & 39.00 ha is open forest it can be suitable for @1000 plant/ ha as per DSS report".

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CHAPTER-III

DELINEATION OF PROPOSED AREA ON SUITABLE MAP

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

The area has been demarcated through DGPS survey and 61nos of 4' height RCC pillars have been posted & GPS coordinates has also been mentioned in the pillar around the identified area. The DGPS survey data showing latitude & Longitude of each point and their chainage with bearing has been depicted in the village sheet map (Map Enclosed). One durable sign boards has been erected at the identified site at a conspicuous location with name of the project, year of allotment, name of the scheme, details of plots etc. depicted there on.

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

Name of the site	Area identified for plantation (in ha)	MDF (in Sq. Km)	Non-forest (in Sq. Km)	Open Forest (in Sq. Km)
Village-Talabarada	83.602	0.13	0.32	0.39

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. 531 dt. 20.07.2022. 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 over 32.00 ha & @1100 seedlings per ha over 39.00 including seedlings for 10% casualty replacement.

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

The planting area has been surveyed and demarcated through DGPS survey and 6 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 $45cm^3$ will be dug AR model @1000 seedlings/ ha over 39.00 ha & @1600 seedlings/ha over 32.00 ha preferably 2 months before or at least a month before planting of seedlings.

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C. PLANTING OPERATION

Planting of seedlings will be taken up in the month of July. The polythene {(size 12 x 10) (300 gauge)} covering of the balls of earth will be carefully removed before planting. Care will be taken to see that the ball of earth is not broken while doing so. The seedling with the ball of earth will then be placed firmly in the pit and buried at such a depth that the root collar is well below the surface of the soil. The soil around the plant will be well compacted with the 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 84 nos. over the entire plantation site.

D(5)-WATERING PROVISION

14 Nos. Diesel pump set with borewell (1 Pump set + Borewell for 5 ha plantation) for 83.602 ha plantation.

D(6)-PROTECTION AGAINST FIRE AND BIOTIC INTERFERENCE

It is proposed to protect the CA plantation from grazing by domestic animals using GI Chain Link Mesh Fencing. The total length of such GI Chain Link Mesh Fencing for the patch which comes to 5.765 KM. 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) @ 311.00/- Mandays as per revised wage rate by Labour Commissioner, Odisha, Bhubaneswar vide Notification No. 2433/LC dated 30.04.2022. The 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

BASE COST NORM FOR COMPENSATORY AFFORESTATION (BLOCK PLANTATION) @ 1600 PLANTS PER HECTARE (18 months old seedling)						
WAGE RATE Rs- 311/- PER MANDAY						
Sl. No	Items of work	Preferable Period of Execution	No of Mandays	Labour Cost (In Rs.)	Matrial Cost (In Rs.)	Total cost (In Rs.)
1	2	3	4	5	6	7
0th Year (Advance work) Pre-Planting Operation						
1	Survey, Demarcation and Pillar posting	Nov/Dec	2	622	0	622
2	Preparation of Treatment Map (Digital Map)	Nov/Dec	1	311	100	411
3	Site preparation (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	2	622	0	622
6	Digging of pits (45 cm x 45 cm X 45 cm) in hard and gravelly soil	Feb/Mar	64	19904	0	19904
7	Construction of Temporary 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.	Jun/Jul	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 10 Rkm) & Stacking the seedling @ Rs.6/- per Seedling. (1760 nos)	Jul/Aug	0	0	10560	10560
3	Watering the polypot seedlings at planting site	Jul/Aug	3	933	0	933
4	Conveyance of polypot seedlings on head load from the stacking site to individual dugout pits within the planting site, applying insecticide, fertilizers & planting after scooping the soil with other applied materials & pressing the soil properly around the planted seedlings.	Jul/Aug	36	11196	0	11196
5	Cost of Fertilizer & Insecticide (a)NPK/Bio-fertilizer @ 50 gms/plant as basal dose = 80kg @ 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-pesticide @ 5 gms/plant= 8 kg @ Rs.150/- per kg = Rs. 1200.00	Jul/Aug	0	0	4800	4800

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BASE COST NORM FOR COMPENSATORY AFFORESTATION (BLOCK PLANTATION) @ 1600 PLANTS PER HECTARE (18 months old seedling)

WAGE RATE Rs- 311/- PER MANDAY

Sl. No	Items of work	Preferable Period of Execution	No of Mandays	Labour Cost (In Rs.)	Matrial Cost (In Rs.)	Total cost (In Rs.)
1	2	3	4	5	6	7
6	Casualty Replacement @ 10% (160 nos.)	Jul/Aug	4	1244	0	1244
7	1st weeding & Manuring	Aug/Sept	15	4665		4665
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	933	0	933
10	Watch & Ward including watering as per requirement	Aug-Mar	12	3732	0	3732
	Total		105	32655	23360	56015
	2nd Year Maintenance					
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	<u>Cost of Fertilizer & Insecticide-</u> 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 Khata/any other fertilizer @Rs. 4486/-	Aug/Sept	0	0	4606	4606
4	Weeding (Complete 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
6	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.				1000	1000
	Total		45	13995	6566	20561

BASE COST NORM FOR COMPENSATORY AFFORESTATION (BLOCK PLANTATION) @ 1600 PLANTS PER HECTARE (18 months old seedling)						
WAGE RATE Rs- 311/- PER MANDAY						
Sl. No	Items of work	Preferable Period of Execution	No of Mandays	Labour Cost (In Rs.)	Matrial Cost (In Rs.)	Total cost (In Rs.)
1	2	3	4	5	6	7
3rd Year Maintenance						
3	Cost of FertilizerUrea/NPK/Bio-fertilizer/Vermicompost/Mo Khata/any other fertilizer	Sept/Oct	0	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
6	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 Year Maintenance						
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 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 Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	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		26	8086	0	8086.0
7th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933
2	Watch & Ward	Apr/Mar	18	5598.00	0	5598
	Total		21	6531	0	6531
8th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933
2	Watch & Ward	Apr/Mar	18	5598.00	0	5598
	Total		21	6531	0	6531
9th Year Maintenance						
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933
2	Watch & Ward	Apr/Mar	18	5598.00	0	5598

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BASE COST NORM FOR COMPENSATORY AFFORESTATION (BLOCK PLANTATION) @ 1600 PLANTS PER HECTARE (18 months old seedling)						
WAGE RATE Rs- 311/- PER MANDAY						
Sl. No	Items of work	Preferable Period of Execution	No of Mandays	Labour Cost (In Rs.)	Matrial Cost (In Rs.)	Total cost (In Rs.)
1	2	3	4	5	6	7
	Total		21	6531	0	6531
10th Year Maintenance						
1	Fire line tracing (2 m wide fire line over 400 m length)	Feb/Mar	3	933	0	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)

Sl. No	Year	No. person days	Labour cost @ Rs. 311/- per day (Rs)	Material Cost	Monitoring, Evaluation, Learning, Documentation and Other Contingency (5%) of (4+5)	Cost of Seedlings @Rs 50.31 per seedlings	TOTAL COST
1	2	3	4	5	6	7	8
1	0th year	82	25502	3600	1398.00	0	30500.00
2	1st year	105	32655	23360	2800.00	88546	147361.00
3	2nd year	45	13995	6566	1028.00	8050	29639.00
4	3rd year	41	12751	5486	911.00	0	19148.00
5	4th year	21	6531	0	326.00	0	6857.00
6	5th year	21	6531	0	326.00	0	6857.00
7	6th year	26	8086	0	404.00	0	8490.00
8	7th year	21	6531	0	326.00	0	6857.00
9	8th year	21	6531	0	326.00	0	6857.00
10	9th year	21	6531	0	326.00	0	6857.00
11	10th year	21	6531	0	326.00	0	6857.00
	Total:	425	132175	39012	8497	96596	276280

Note.

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

APCCF (Forest Diversion & NO, FC Act)

Matrix for AR-1600 Plants / Ha

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

In Rupees

Sl. NO.	Commencement Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI	Total Cost (10 Years)
Base Norm		30500	147361	29639	19148	6857	6857	8490	6857	6857	6857	6857											
1	2021-22	30500	154729	32674	22166	8335	8751	11377	9648	10131	10637	11169											310117
2	2022-23		32025	162465	34308	23274	8752	9189	11946	10130	10638	11169	11727										325623
3	2023-24			33626	170593	36023	24438	9190	9648	17543	10537	11170	11727	12313									341903
4	2024-25				35307	179117	37874	25660	9650	10130	15170	11169	11729	12313	12929								358998
5	2025-26					37072	188073	39715	26943	10133	10637	23829	11727	12315	12929	13575							376948
6	2026-27						38926	197477	41701	28192	10640	11169	14520	12313	12931	13575	14254						395796
7	2027-28							40872	207351	43786	29705	11172	11727	15246	12929	13578	14254	14967					415587
8	2028-29								42916	217719	45975	31190	11731	12313	16008	13575	14257	14967	15715				436366
9	2029-30									45062	228605	48274	32750	12318	12929	16808	14254	14970	15715	16501			458186
10	2030-31										47315	240035	50688	13388	12934	13575	17648	14967	15719	16501	17326		481096

APCCF (Forest Diversion & NO, FC Act)

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Base Cost Norm for AR Plantation @1000 seedlings per ha (18 months old seedlings) @ 311.00/- Mandays as per revised wage rate by Labour Commissioner, Odisha, Bhubaneswar vide Notification No. 2433/LC dated 30.04.2022. The 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-4

BASE COST NORM FOR COMPENSATORY AFFORESTATION (BLOCK PLANTATION) @ 1000 PLANTS PER HECTARE (18 months old seedling)

WAGE RATE Rs- 311/- PER MANDAY

Sl. No	Items of work	Preferable Period of Execution	No of Mandays	Labour Cost (In Rs.)	Matrial Cost (In Rs.)	Total cost (In Rs.)
1	2	3	4	5	6	7
	0th Year (Advance work) Pre-Planting Operation					
1	Survey, Demarcation and Pillar posting	Nov/Dec	2	622	0	622
2	Preparation of Treatment Map (Digital Map)	Nov/Dec	1	311	100	411
3	Site preparation (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 of pits	Feb/Mar	1	311	0	311
6	Digging of pits (45 cm x 45 cm X 45 cm) in hard and gravelly soil	Feb/Mar	40	12440	0	12440
7	Construction of Temporary Labour Shed, Drinking water facility and First-Aid etc.	Jan/Mar	0	0	3500	3500
	Total		57	17727	3600	21327
	1st Year/Planting Year					
1	Refilling of pits by altering the dugout soil of the pits, application of organic compounds/ CDM/ FYM & mixing the same properly.	Jun/Jul	7.5	2332.50	5000	7332.50
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 seedling @ Rs.6/- per Seedling. (1100 nos.)	Jul/Aug	0	0	6600	6600
3	Watering polypot seedlings at planting site	Jul/Aug	2	622	0	622
4	Conveyance of polypot seedlings on head load from the stacking site to individual dugout pits within the planting site, applying insecticide, fertilizers & planting after scooping the soil with other applied materials & pressing the soil perfectely around the planted seedlings.	Jul/Aug	22.5	6997.50	0	6997.50
5	Cost of Fertilizer & Insecticide (a)NPK/Bio-fertilizer @ 50 gms/plant as basal dose = 50kg @ Rs 30/- per kg = Rs. 1500.00 (b) Urea/Vermicompost/Mo Khata/any other fertilizer in two subsequent doses @ Rs. 750.00 (c) Insecticide/ Bio-pesticide @ 5 gms/plant=5 kg @ Rs.150/- per kg = Rs. 750.00	Jul/Aug	0	0	3000	3000
6	Casualty Replacement @ 10% (100 nos.)	Jul/Aug	2.5	777.5	0	777.5
7	1st weeding & Manuring	Aug/Sept	12	3732	0	3732
8	2nd Weeding Soil working (1mt. diametre around the plants) & Manuring	Oct/Nov	15	4665	0	4665
9	Fire line tracing (2 m. wide fire line over 400 m long) including maintenance of inspection path	Feb/Mar	3	933	0	933
10	Watch & Ward including watering as per requirement	Aug-Mar	12	3732	0	3732
	Total		76.50	23791.50	14600.00	38391.50
	2nd Year Maintenance					
1	Transportation of 100 seedlings from Nursery to plantation site including loading, unloading & conveyance by Tractor @ Rs.6/- per seedling	Jul	0	0	600	600
2	Casualty replacement- 10%	Jul	2.5	777.5	0	777.5
3	Cost of Fertilizer & Insecticide- A) Cost of Insecticide/ Bio-pesticide @ 5 gms/plant = 0.5 Kg @ Rs.150/- per kg = Rs.75/- B) Urea/NPK/Bio-fertilizer/Vermicompost/Mo Khata/any other fertilizer @Rs. 2800/-	July/Aug	0	0	2875	2875
4	Weeding (Complete weeding), Manuring & Soil working (1mt. diametre around the plants)	Sep/Oct	15	4665	0	4665
5	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
7	Maintenance of Temporary Labour Shed, Drinking water facility and First Aid etc.	Apr-Mar		0	1000	1000
	Total		38.5	11973.5	4475	16448.5

Sl. No	Items of work	Preferable Period of Execution	No of Mandays	Labour Cost (In Rs.)	Matrial Cost (In Rs.)	Total cost (In Rs.)
1	2	3	4	5	6	7
	3rd Year Maintenance					
1	Cost of Fertilizer(Urea/NPK/Bio-fertilizer/Vermicompost/Mo Khata/any other fertilizer	July/Aug	0	0	2800	2800
2	Weeding (Complete weeding), Manuring & Soil working, (1mt. diametre around the plants)	Sep/Oct	15	4665	0	4665
3	Fire line tracing (2 m. wide fire line over 400 m long) including maintenance of inspection path	Feb/Mar	3	933	0	933
4	Watch & Ward including watering as per requirement	Apr/Mar	18	5598	0	5598
5	Maintenance of Temporary Labour Shed, Drinking water facility and First Aid etc.	Apr/Mar	0	0	1000	1000
	Total		36.0	11196	3800	14996
	4th Year Maintenance					
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 including maintenece of vegetative fencing	Apr-Mar	18	5590	0	5598
	Total		21	6531	0	6531
	5th Year Maintenance					
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933
2	Watch & Ward	Apr/Mar	18	5598.00	0	5598
	Total		21	6531	0	6531
	6th Year Maintenance					
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933.0
2	Pruning of branches, Singling out of multiple shoots	Jan/Mar	3	933.00	0	933.0
3	Watch & Ward	Apr/Mar	18	5598.00	0	5598.0
	Total		24	7464	0	7464.0
	7th Year Maintenance					
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933
2	Watch & Ward	Apr/Mar	18	5598.00	0	5598
	Total		21	6531	0	6531
	8th Year Maintenance					
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933
2	Watch & Ward	Apr/Mar	18	5598.00	0	5598
	Total		21	6531	0	6531
	9th Year Maintenance					
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933.00	0	933
2	Watch & Ward	Apr/Mar	18	5598.00	0	5598
	Total		21	6531	0	6531
	10th Year Maintenance					
1	Fire line tracing (2 m. wide fire line over 400 m length)	Feb/Mar	3	933	0	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)

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Sl. No	Items of work	Preferable Period of Execution	No of Mandays	Labour Cost (In Rs.)	Matrial Cost (In Rs.)	Total cost (In Rs.)	
1	2	3	4	5	6	7	8

Sl. No	Year	No. of Mandays	Labour cost (In Rs)	Material Cost(In Rs.)	Monitoring, Evaluation, Learning, Documentation and Other Contingency (5%) of (4+5)	Cost of Seedlings @Rs.50.31 per seedlings	TOTAL COST(In Rs)
1	2	3	4	5	6	7	8
1	0th year	57.0	17727.0	3600.0	973.00	0.00	22300.00
2	1st year	76.5	23791.5	14600.0	1918.50	55341.00	95651.00
3	2nd year	38.5	11973.5	4475.0	821.50	5031.00	22301.00
4	3rd year	36.0	11196.0	3800.0	749.00	0.00	15745.00
5	4th year	21.0	6531.0	0.0	326.00	0.00	6857.00
6	5th year	21.0	6531.0	0.0	326.00	0.00	6857.00
7	6th year	24.0	7464.0	0.0	373.00	0.00	7037.00
8	7th year	21.0	6531.0	0.0	326.00	0.00	6857.00
9	8th year	21.0	6531.0	0.0	326.00	0.00	6857.00
10	9th year	21.0	6531.0	0.0	326.00	0.00	6857.00
11	10th year	21.0	6531.0	0.0	326.00	0.00	6857.00
	Total:	358.0	111338.0	26475.0	6791.0	60372.0	204976.0

Note:

1 Priority must be given to the indigenous local species available nearby to the site of plantation.
2 10 % indigenous fruit bearing trees must be preferred to Plantation.
3 Site specific Soil conservation work like 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 Bamboo twigs fencing may be prefered
5 Watering facilites for procurement of water & watering may be adopted as per the availability of water.
6 The Cost Norm of various items can be changed with the approval of the concerned RCCFs keeping the overall cost norm fixed for each Financial Year

APCCF (Forest Diversion & NO, FC Act)

Matrix for AR-1000 Plants / Ha

Matrix for Model-I A Conventional CA Plantation (AR) 1000 plants per Ha

In Rupees

Sl. NO.	Commencement Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI	Total Cost (10 Years)
Base Norm		22300	95651	22301	15745	6857	6857	7837	6857	6857	6857	6857											
1	2021-22	22300	100434	24585	18226	8335	8751	10502	9648	10131	10637	11169											234718
2	2022-23		23415	105456	25814	19137	8752	9189	11027	10130	10638	11169	11727										246454
3	2023-24			24586	110729	27105	20094	9190	9648	11578	10637	11170	11727	12313									258777
4	2024-25				25815	116265	28460	21099	9650	10130	11157	11169	11729	12313	12929								271716
5	2025-26					27105	122078	29883	22154	10133	10637	11765	11727	12315	12929	13575							285302
6	2026-27						28461	128182	31377	23262	10640	11169	13403	12313	12931	13575	14254						299567
7	2027-28							29884	134591	32946	24475	11172	11727	14073	12929	13578	14254	14967					314546
8	2028-29								31378	141321	34593	25646	11731	12313	14777	13575	14257	14967	15715				330273
9	2029-30									32947	148387	36323	26928	12313	12929	15516	14254	14970	15715	16501			346788
10	2030-31										44594	155806	38139	28274	12934	13575	16292	14967	15729	16501	17326		364127

APCCF (Forest Diversion & NO, FC Act)

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

Annexure-11

Cost Norms for creation of Compensatory Afforestation with Stabilization of Soil & Conservation of Moisture (1000

WAGE RATE Rs- 311/- PER DAY

Sl.No	Item of Works	Preferable Period of Execution	Total Cost
	0th Year (Pre-Planting Operation)		
1	Nil		0
	1st Year		
2	Soil Conservation measure structures like Staggered Trench, Percolation pit, Contour trench, Graded earthen bund, LBCD, Wire mesh LBCD, Sub surface Dyke & 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 initial year cost	Apr/Jul	3,032
	4th Year		
5	Maintenance of SMC structures @ 15 % of initial year cost	Apr/Jul	3,032
	Total		32,343.0

Abstract

Sl. No	Year	No. person days	Labour cost @ Rs. 311/-per day	Material Cost	Total cost (Rs.)
1	0th year	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)

Matrix for (SMC)

In Rupees

Sl. NO.	Commence ment Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	Total Cost
Base Norm		0	20215	3032	3032	3032	3032											
1	2021-22	0	21276	3342	3510	3685	3870											35683
2	2022-23		0	22287	3509	3686	3869	4064										37415
3	2023-24			0	23401	3684	3870	4067	4267									39284
4	2024-25				0	24571	3868	4064	4265	4480								41248
5	2025-26					0	25800	4051	4267	4476	4704							43310
6	2026-27						0	27090	4264	4480	4702	4939						45475
7	2027 28							0	28443	4477	4704	4937	5186					47749
8	2028-29								0	29867	4701	4939	5184	5445				50136
9	2029-30									0	31360	4936	5186	5443	5717			52642
10	2030-31										0	32928	5183	5445	5715	6003		55274

APCCF (Forest Diversion & NO, FC Act)

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Fencing Model F-II

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

Fencing Model-F-II

Fencing for Compensatory Plantation raised outside the Forest Areas using Angle Iron & Chain Link wire mesh (250 Rmt/ Ha.)						
WAGE RATE Rs- 311/- PER DAY						
Sl. No	Items of work	Preferable Period of Execution	Man days	Wages	Material cost (Rs)	Total Cost (Rs. per Ha.)
0th Year (PPO)						
1	Earth work [Excavation of hole] in Hard soil at a distance 3 mt. 0.40m x 0.40m x 0.10m = 0.064 x 84 = 5.376 cum @ Rs. 140/ cum Rs. 753		2.42	752.62	0.0	752.6
2	Cement concrete (1: 4: 8) using 40 mm BHG metal 84 X 0.40m X 0.40m X 0.10m = 1.344 @ 3755.94/cum		0	0	5,047.4	5,047.4
3	Angle iron pole of size 50 mm X 50 mm X 6 mm of height 2.40 mt 84 x 2.40 = 201.60 Sqmt. @ 4.50/kg/ Sqmt. = 907.20 kg @ 69.50 per kg				63,050.0	63,050.0
4	Cement concrete (1: 2: 4) for fixing the iron angel pole using 12mm BHG Chips 84 X 0.40m X 0.40m X 0.30m = 4.032 cum @ 5486.77/cum				22,123.0	22,123.0
5	Cost of Chain link mess using 4 mm Dia GI wire having gap size 50 mm X 50 mm 250 Rmt X 2.10 mt = 525 Sq mt @ 331/Sqmt = Rs. 1,73,775				1,73,775.0	1,73,775.0
6	Double cost painting of iron angel pole over a coat of primer using good quality enamele paint 84 x 2.10 x 0.20 = 35.28 sqmt @ Rs. 108.80/Sqmt				3,838.0	3,838.0
7	Printing of GI Chain link mess 250 x 2.10 x 2 = 1050/10 = 105 Sqmt @ Rs. 108.80 Sqmt				11,424.0	11,424.0
8	Transportation of Chain link mess, Iron angle, Straightening & fixing of chain link mess etc @ 2% of the total cost				5,600.0	5,600.0
	TOTAL		2.42	752.62	2,84,857.4	2,85,610.0
Rate per running mt. 2,85,610 / 250= Rs. 1142 /Rmt						
1st Year Maintenance						
1	No Maintenance is required	Sept /Oct	0	0	0	0
2nd Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept /Oct	0	0	11000	11000
3rd Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept /Oct	0	0	11000	11000
4th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept /Oct	0	0	11000	11000
5th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept /Oct	0	0	[illegible]	[illegible]
6th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept /Oct	0	0	[illegible]	[illegible]
7th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept /Oct	0	0	[illegible]	11000
8th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr 1142x 1% = 11.42 say Rs. 11	Sept /Oct	0	0	11000	11000
9th Year Maintenance						
1	Maintenance of wire mess fence @ 1% per running mt. cost of installation in 1st yr 1142 x 1% = 11.42 say Rs. 11	Sept /Oct	0	0	11000	11000
10th Year Maintenance						

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

Abstract

Sl. No	Year	No. person days	Labour cost @ Rs. 311/- per day	Material Cost	Total cost (Rs.)
1	0th 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	4th year	0.0	0.0	11000.0	11000.0
6	5th year	0.0	0.0	11000.0	11000.0
7	6th year	0.0	0.0	11000.0	11000.0
0	7th year	0.0	0.0	11000.0	11000.0
9	8th year	0.0	0.0	11000.0	11000.0
10	9th year	0.0	0.0	11000.0	11000.0
11	10th year	0.0	0.0	11000.0	11000.0
	Total:	2.42	752.62	383857.4	3,84,610.0

APCCF (Forest Diversion & NO, FC Act)

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

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

In Rupees

S.No	Commencement Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI	Total Cost
Base Norm		285610	0	11000	11000	11000	11000	11000	11000	11000	11000	11000											
1	2021-22	285610	0	11126	[illegible]	13370	14039	14740	15478	[illegible]	17064	17916											419331
2	2022-23		299831	0	12740	13371	14039	14741	15477	16252	17065	[illegible]	18814										440299
3	2023-24			314586	0	13364	14040	14741	15478	[illegible]	17064	[illegible]	18814	[illegible]									462316
4	2024-25				340630	0	14037	14742	15478	16252	17064	17416	18814	[illegible]	[illegible]								485437
5	2025-26					[illegible]	0	14739	[illegible]	[illegible]	[illegible]	[illegible]	18814	[illegible]	[illegible]	[illegible]							509705
6	2026-27						365320	0	[illegible]	[illegible]	17065	[illegible]	18813	[illegible]	[illegible]	[illegible]	22859						535191
7	2027-28							382746	0	[illegible]	17066	[illegible]	18814	[illegible]	[illegible]	[illegible]	22868	[illegible]					561951
8	2028-29								401883	[illegible]	[illegible]	[illegible]	18814	[illegible]	[illegible]	[illegible]	22865	[illegible]	[illegible]				590049
9	2029-30									[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			619552
10	2030-31										[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		650531

APCCF (Forest Diversion & NO, FC Act)

Watering Model – W-II

Watering Provision to CA Plantation

Watering Model-W-II			
Watering provision to CA Plantation			
Diesel pump set with Bore well (1 pump set + Bore well for 5 Ha Plantation), Wage rate @ Rs.311/-			
Year of Installation (0th Year)			
1	Cost of Borewell	1,50,000	
2	Cost of Diesel pump set 5HP	60,000	
3	Diesel pump set & 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/ 5000)= Rs. 51/- Cost of Water per Ha. = Rs. 51,000/-			51,000
1st Year Watering			
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water -21 x 1000 -		21,000
2	Watering 1000 Plants (Nov-Mar.) @ 200 plants/MD with 7 days rotation 20 MD x 5 months = 100 MD x 311 =		31,100
		Total	52,100
2nd Year Watering			
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water -21 x 1000-		21,000
	Maintenance Diesel pump set etc. @ 15 % of the installation cost.		7,650
2	Watering 1000 Plants (April- June & Nov-Mar.- 8 months) @ 200 plants/MD with 7 days rotation 20 MD x 8 months = 160 MD x 311 =		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 rotation 20 MD x 8 months = 160 MD x 311 =		49,760
		Total	78,410
4th Year Watering			
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water -21 x 1000-		21,000
	Maintenance Diesel pump set etc. @ 15 % of the installation cost.		7,650
2	Watering 1000 Plants (April- June & Nov-Mar.- 8 months) @ 200 plants/MD with 7 days rotation 20 MD x 8 months = 160 MD x 311 =		49,760
		Total	78,410
5th Year Watering			
1	Recurring expenditure i.e Diesel, Mobil, Engine Oil, etc. for pumping Water -21 x 1000=		21,000
	Maintenance Diesel pump set etc. @ 15 % of the installation cost.		7,650
2	Watering 1000 Plants (April- June & Nov-Mar.- 8 months) @ 200 plants/MD with 7 days rotation 20 MD x 8 months = 160 MD x 311 =		49,760
		Total	78,410

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

APCCF/(Forest Diversion & NO, FC Act)

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

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

In Rupees

Sl. NO.	Commencement Year	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	Total Cost
Base Norm		5100	52100	78410	78410	78410	78410											
1	2021-22	51000	54705	86439	90771	95307	100072											478294
2	2022-23		53550	57440	90761	95310	100072	105076										502209
3	2023-24			56228	60312	95799	100076	105076	110330									527321
4	2024-25				59039	63328	100064	105080	110330	115847								553683
5	2025-26					61991	66494	105067	110334	115847	121639							581372
6	2026-27						66091	69819	110320	115851	121639	127721						610441
7	2027-28							68346	73310	115836	121644	127721	134107					640964
8	2028-29								71763	75976	121628	127726	134107	140812				573012
9	2029-30									75351	80875	127709	134112	140812	147853			706662
10	2030-31										79119	84566	134094	140918	147853	155246		741996

ARCCF (Forest Diversion & NO, FC Act)

<u>**TOTAL COST OF PROJECT**</u>

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 32.00 ha	10419936.00
2	Base Norm for 1000 plants/ ha (As per base norm of Matrix for the year 2022-23)	246454.00 x 39.00 ha	9611706.00
3	Soil Moisture Conservation (SMC) (As per base norm of Matrix for the year 2022-23)	37415.00 x 83.602 ha	3127968.83
4	Angle Iron & Chain Link Fencing (As per base norm of Matrix for the year 2022-23)	440299.00 x 83.602 ha	36809876.99
5	Cost of 14 nos. 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 14 nos.	7030926.00
	Grand Total		**67000413.82 Or say 6,70,00,500.00**

(Rupees six crore seventy lakh five hundred) only.

PROVISION OF FUNDS AND FUND UTILIZATION

Rs. 6,70,00,500/- (Rupees six crore seventy lakh five 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.

23/07/22

Divisional Forest Officer,
Keonjhar Division

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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.

25/07/22

Divisional Forest Officer,
Keonjhar Division

CERTIFICATE ON DSS ANALYSIS FOR CA/ACA/PCA

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

Sl. No.	Name of Range	Name of the Forest Block (RF/PRF/PF/DPF/ Revenue Forest)	Area identified for CA/ ACA/ PCA (in ha)	Classification of identified land (in ha)							Area suitable for plantation (in ha)				Plantation model (AR/ANR)	Remarks
				Very Dense Forest	Moderately Dense Forest	Open Forest	Non-forest	Scrub	Water	Total	Open Forest	Non-forest	Scrub	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	BJP	Village-Talabarada	CA	0	13.00	39.00	32.00	0	0	84.00	39.00	32.00	0	71.00	AR	32.00 ha @1600 seedlings & 39.00ha @1000 seedlings per ha

25/07/22

Divisional Forest Officer,
Keonjhar Division.

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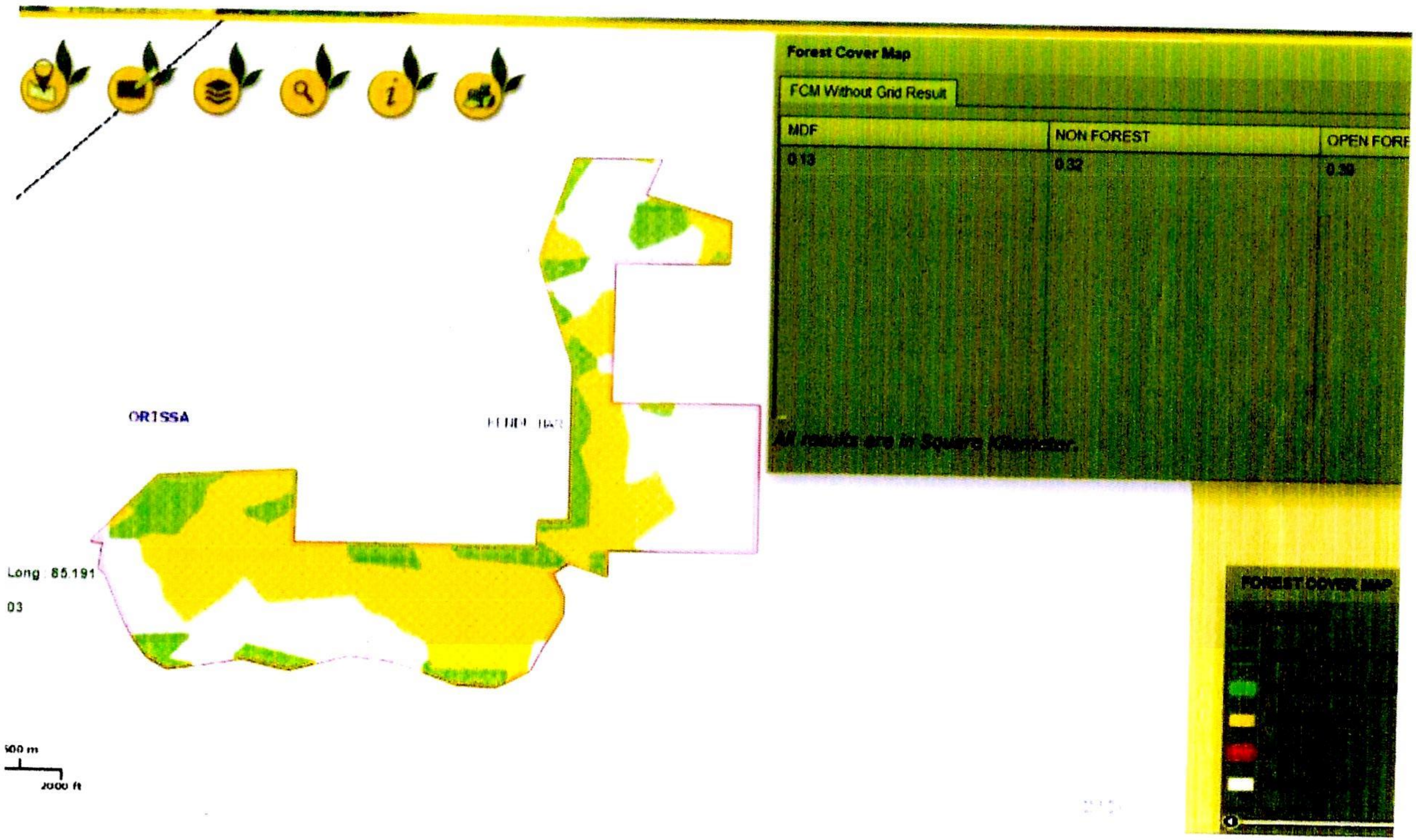
Countersigned

Regional Chief Conservator of Forests,
Rourkela Circle



ORISSA
Long : 85.191
03
500 m
2000 ft
Forest Cover Map
FCM Without Grid Result
MDF
0.13
NON FOREST
0.32
OPEN FORE
0.39
All results are in Square Kilometer.
FOREST COVER MAP

JOINT VERIFICATION OF NON-FOREST GOVT. LAND FOR COMPENSATORY AFFORESTATION
IN FAVOUR OF M/s RUNGTA MINES LIMITED.

Date- 03/06/2022

Range:-BJP Range.

Tahasil:-Bansapal

Sl No.	Name of Village	Khata No	Plot No	Kissam	Area (in Ha.)	Area Found Suitable For Plantation(in Ha.) Block	RDF	Total	Area (in Ha.)Found for Unsuitable with Reasion	Remarks
1	2	3	4	5	6	7	8	9	10	11
2	TALABARADA	24(AAA)	12(P)	Parbat-II	13.279			13.279		
3			40(P)	Parbat-II	4.239			4.244		
4			45(P)	Parbat-II	5.577			6.512		
5			41(P)	Parbat-II	5.372			5.372		
6			43(P)	Parbat-II	15.602			14.662		
7			42(P)	Parbat-II	4.481			4.481		
8			68(P)	Parbat-II	11.021			11.021		
9			10(P)	Parbat-II	0.866			0.866		
10			11(P)	Parbat-II	7.627			7.627		
11			36(P)	Parbat-II	13.708			13.708		
12			13(P)	Parbat-II	1.830			1.830		
							TOTAL	83.602 Ha.		

1- Certified that the above non-forest Government land as mentioned in column 7, 8 & 9 is a compact patches of 4.00 Ha. Or more having adequate soil depth suitable for plantation from management point of view.

2- Certified that the above Government land found suitable for plantation is free from encroachment and encumbrances.

3- Certified that the above Government land is not covered under 4(1) notification.

4- Certified that the above Government land is not covered under DLC.

5- Certified that the above Government land is not alloted previously.

6- Certified that the above Government land is not covered under any M.L/P.L area.

7- Certified that the above Government land is not settled in favour of individual/community under F.R Act,2006.

8- Certified that the status of the above plots was non forest as on 25.10.1980.

9- Certified that the above plots are not covered under any proposed reserve forest.

10- Certified that the above plots are unfit not only for agriculture,but also for other developmental requrements.

11- Certified that the above plots have no future potential for agrarian or industrial use.

12- Certified that the above identified area contains sparse vegetation with density of 0.02 and scrubby forest growth fit for copensatory afforestation.

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Signature & Seal of Revenue Inspector.
Revenue Inspector TARAMAKANTA

Signature & Seal of Tahasildar.
Tahasildar Banspal

Signature & Seal of Forester
Forest Section Officer Siakati

Signature & Seal of Forest Ranger.
Range Officer R.J.P Range

COUNTERSIGNED
Divisional Forest Officer
Keonjhar Division