

IV

SCHEME FOR

COMPENSATORY AFFORESTATION OVER 64.50 HA.

(AREA 32.50 HA.@200 PLANTS

& AREA 32.00 HA.@500 PLANTS)

IN NON-FOREST LAND IDENTIFIED AT

VILLAGE- MAHUPADA

**BANKI FOREST RANGE
UNDER ROURKELA FOREST DIVISION**

AGAINST THE NETRABANDHA PAHAR (WEST)

IRON ORE BLOCK OF

M/S RAGA TRADECON PVT. LTD.

UNDER KOIRA TAHASIL

SUNDARGARH DISTRICT.

SCHEME FOR COMPENSATORY AFFORESTATION OVER 64.50 HA. (@200 NOS SEEDLINGS OVER 32.5 HA. & @500 NOS SEEDLINGS OVER 32.0 HA.) IN THE NON-FOREST LAND IDENTIFIED IN VILLAGE MAHUPADA UNDER ROURKELA FOREST DIVISION IN LIEU OF THE NETRABANDHA PAHAR (WEST) IRON ORE BLOCK OF M/S RAGA TRADECON PVT. LTD. UNDER KOIRA TAHASIL SUNDARGARH.

1. INTRODUCTION:

This Compensatory Afforestation Scheme has been prepared for raising Compensatory Afforestation over **64.50 Ha.** of Non- Forest Land identified in village Mahupada under Banki Range, Koira Tahasil of Sundargarh District. The scheme aims to compensate the loss of **64.50 Ha.** of forest land proposed for diversion by M/S Raga Traders Pvt. Ltd. under Koira Tahasil of Rourkela Division. The area has been demarcated by erecting RCC Pillars and the numbering of the pillars as per boundary description shown in the map.

The Non-forest land has been verified in the field by the Forest Officials and is found suitable for ANR plantation over **64.50 ha.** (@200 seedlings per ha over **32.5 ha.** & @500 nos seedlings over **32.0 ha.**) and is free from encroachment and encumbrances.

The ANR Plantation @200 nos. seedling per ha at a spacing of **2.5 Mtr. x 2.5 Mtr** will be taken up over **32.50 ha** & @ 500 plants per ha over **32.0 ha** in the identified Non-Forest area with a larger maintenance period of 10 years as per the MoEF & CC Guideline No F. No. 11-423/2011-FC Dated 08.11.2017. The cost estimate for this ANR Plantation calculated as per prescribed cost norms including regeneration work are enclosed as **Annexure- I.**

2. TOPOGRAPHY AND SOIL:

The topography of the areas is mainly plain with moderate slope. The soil is mostly sandy loam at patches and depth of the soil is fairly good. The area experiences tropical climate with monsoonal rainfall.

The topographical configuration of the selected site is suitable for undertaking plantation activities. The soil is mostly sandy loam to lateritic in some areas. For such characteristics, the scheme proposes to dovetail adequate soil and moisture conservation measures into the afforestation programme. Honey comb structure with rubble stones around individual plants to retain soil along with three tier continuous

trench will prove quite effective not only for the growth of plants but also for controlling soil erosion which has been incorporated in this scheme.

3. CLIMATE:

The study area lies in tropical region where climate is characterized by very hot summers and cool winters. The summer season usually starts from March and continue up to June during which monthly temperature ranges from a maximum of 45°C during daytime to a minimum of 8°C at night. Winter usually starts from November and continue up to February during which the maximum temperature goes up to 35°C during daytime and goes down to 10°C during night-time. The average annual rainfall as recorded is 1500 mm

4. OBJECTIVE OF THE SCHEME:

The main objective of the scheme is to restock the non-forest crop in village Mahupada under Banki Range, Koira Tahsil of Sundargarh District by taking up tending operation of the existing forest crop and supplementing it with ANR Plantation over **64.50 ha. (@200 seedlings per ha over 32.5 ha. & @500 nos seedlings over 32.0 ha.)**. The scheme also envisages carrying out adequate and appropriate soil conservation measure works along with the afforestation work so as to conserve soil and water for recharging the ground water table and to check erosion of the fertile top soil of the area.

Further, the aim of the proposed scheme is as follows:

- i) To improve the micro-edaphic conditions by under taking suitable soil and moisture conservation measures.
- ii) To protect the area against encroachment, illicit felling, fire occurrence, grazing etc. so as to check further degradation of the area and maintain the eco-restoration.
- iii) To provide gainful employment to the local people, mainly ST/SC population.
- iv) To create awareness among the local villagers for protection and maintenance of plantation and forest.

- vi) Singling of coppice shoots coming out from stools retaining the most promising one.
- vii) Pruning of the branches of the pole crops up to hand reach distance.

During the 1st year, climber cutting, and cutting of high stumps, weeds and malformed and diseased species will be done. In the next two years, cutting back of ill grown individuals and singling of coppice in case of desired species.

(C.) PLANTATION:

The area will be stocked by way of raising ANR plantations over 64.50 ha. (@200 nos seedlings over 32.5 ha. & @500 nos seedlings over 32.0 ha.). Taking into consideration the soil condition and the local habitation and suitability of species to the site, the following species are selected:

1. Pongamia pinata (Karanja)
2. Azadiracta indica (Neem)
3. Acacia catechu (khaira)
4. Terminalia bellirica (Bahada)
5. Gmelina arborea (Gambhar)
6. Terminalia tomentosa (Asan)
7. Terminalia arjuna (Arjun)
8. Cassia fistula (Sunari)
9. Dendrocalamius strictus (Salia Bamboo)
10. Dalbergia latifolia (Pahadi Sissoo), etc

Different other operations to be taken up for plantation are as follows:

Land Schedule of (Non-forest Land) for CA

Village	Khata No.	Plot No.	Kisam	Proposed Area (in Ha.)
Mahupada	44(AAA)	10/773 (P)	Pahada	2.460
		29/774(P)	Pahada	12.240
		15/775	Pahada	10.420
		15/776	Pahada	8.900
		222/793	Pahada	3.620
		222/794(P)	Pahada	1.850

5. PROPOSED TECHNIQUE:

To achieve the above aims & objectives, it has been proposed to take up ANR Plantation over 64.50 ha. (@200 nos seedlings over 32.5 ha. & @500 nos seedlings over 32.0 ha.) at the spacing of 2.5 Mtr x 2.5 Mtr. in the identified non- forest land in village Mahupada under Banki Range, Koira Tahsil of Sundargarh District of Rourkela forest division. The said plantation work will be done in the first year followed by maintenance during second, third, fourth, fifth, sixth, seven, eight, nine & ten year. The detailed expenditure statement is furnished below.

(A) SURVEY AND DEMARCATION:

This work has already been taken up by the User Agency with due consultation with the Range Officer, Banki Range of Rourkela Forest Division.

The boundary has been surveyed and demarcated by positing RCC pillars of size 1.25 cm x 20 cm x 20 cm at visible distance, which have been embedded in the ground, and one signboard has been affixed at the site.

(B) REGENERATION, CLEANING AND TENDING OPERATION:

The operation aims at tending the existing crop silviculturally to desirable species for ensuring better growth of the plants. It includes removal of inferior, diseased, malformed, dead, drying and defective tree growth and disposal of them either by distributing it among the local villagers or by control burning them at a selected site so as not to damage the new recruits. Apart from it, weed eradication and climber cutting is also an integral part as they interfere with the growth of trees and also their regeneration by shrouding them from the sun rays and also through root competition. Hence Site clearance by removing climbers and uprooting Eupatorium and other weeds is also being proposed to be done in the area. The detailed operation to be carried out is as follows-

- i) Cutting back of herbs and shrubs interfering with the growth of the desirable species.
- ii) Cutting back of individual inferior poles interfering with growth of well formed pole crops.
- iii) Cutting back of malformed and diseased species.
- iv) Cutting of climbers up to hand reach distance.
- v) Cutting of high stumps flush to the ground.

		222/795(P)	Pahada	3.710
		222/796	Pahada	3.950
		35/777	Pahada	4.860
		38/778	Pahada	4.860
		93/780(P)	Pahada	2.130
		108/781(P)	Pahada	2.130
		108/782(P)	Pahada	2.500
		115/788(P)	Pahada	0.520
		115/789(P)	Pahada	0.350
			Total:-	64.500

a) Raising of nursery

18 months old seedlings required for the plantation shall be raised in a Decentralized nursery nearer to the plantation site with a perennial water source and connected by a fair weather road. Nursery work will be started one year before the year of plantation so that second year seedlings will be available for plantation. 10% extra seedlings shall be raised to compensate and mitigate the eventuality of seedling casualty in the nursery. Standard nursery practices shall be followed for raising of 18 months old seedlings in polythene bags.

b) Alignment and stacking

Alignment, stacking and pitting will be taken up in the month of March-April, Pits of size 45cmX 45cmX 45cm will be dug maintaining a spacing of 2.5 mt @200 nos seedlings over 32.5 ha. & @500 nos seedlings over 32.0 ha. seedlings per ha. plants per hectare.

c) Planting

The seedlings will be planted in dug out pits of 45 cm³ maintaining a spacing of 2.5 mtr between the pits @200 nos seedlings over 32.5 ha. & @500 nos seedlings over 32.0 ha.. Plantation should be taken up after first regular shower of monsoon and should ideally be completed by end of August. NPK/DAP fertilizer @ 50 gms per plant should be given as basal dose. Anti- termite and insecticide like methyl

parathion @ 5 gms. per plant should be applied per pit. Care should be taken to avoid direct contact of the root tip of the plant with that of the insecticide to prevent damage to the plant. Casualty replacement when required during the planting year and in the second year should be undertaken for which the seedlings shall be raised.

d) Weeding, Soil working and manuring

For establishment and better growth of the planted seedlings, weeding, soil working and manuring are necessary. It is prescribed to carry out two weeding, soil working and manuring during the first year and second year of plantation and one weeding and soil working during the third year. Weeding and manuring for the first and second year shall be carried out during August- September and the second one during October- November along with soil working during which 30 gms. of NPK/DAP shall be added to the soil per plant. First weeding shall be area weeding and the second weeding should be strip weeding. The weeding of third year will be area weeding which shall be carried out during August.

e) Application of Insecticides

The plantation site after planting with good seedlings may in future course of time get infested with diseases owing to influx of insects and pests into the area which usually cause heavy damage to the soft, tender and avidly growing parts of the plant that heavily affects the rate of growth and sometimes causes wide spread casualty of the seedlings. To avoid such incidences foliar spray and ground application of insecticides in at regular intervals usually on a sunny day before fore noon shall be done.

f) Fire line tracing and maintenance

Fire causes irreparable damage to the plantation and the forest growth during fire season and to prevent such fire out breaks in the area, the plantation area shall be divided into suitable blocks by tracing fire lines. Boundaries of the plantation patches and these block lines will be scrapped of forest growth to a width of 3.0 mt. during Feb-March and the cut back materials and the dry leaves stacked along these fire lines shall be controlled burnt under direct supervision of the forest staff. This

operation is highly essential and the scheme proposes to carry this operation for the first three years.

6. FENCING

Fencing is an important aspect for a successful plantation. Thus Solar Fencing with RCC pillar (400 pillars/RKM) over 64.50 Ha. area is proposed to protect the CA area from biotic interference.

7. MOTIVATION OF PEOPLE

As per Govt. resolution of 1993, the villagers of the adjoining villages are to be involved in protection and management of plantation raised under Compensatory Afforestation. For this purpose meeting will be conducted and existing Mahupada V.S.S. and Jharbeda V.S.S. will be involved. To motivate the people in this direction, they will be provided with incentives in shape of different community articles, buildings and other different community amenities of fixed and movable type through entry point activities. Health camps shall also be organized in the villages. Thus, 15% of the plantation cost has been earmarked for expenditure on this score.

8. EXECUTING AGENCY

The Divisional Forest Officer, Rourkela will be assigned with the task of executing this scheme and the cots norm applicable is enclosed herewith.

9. The CA scheme has been prepared with one time cost norm in accordance with guidelines issued by PCCF & HoFF, Odisha vide his Office Order No.1109 dt.08.11.2021 and communicated vide memo no.18833, dtd.08.11.2021 of PCCF & HoFF, Odisha ,Bhubaneswar.

10. TOTAL COST OF THE PROJECT.

For implementation of all the prescriptions out lined above Rs. 4,17,84,977.00 (Rupees Four Crore Seventeen Lakh Eighty Four Thousand Nine Hundred Seventy Seven) only will be required as detailed below. As there will be a time lag between the preparation of the scheme and its implementation, the User Agency will pay the enhance wage rate as and when required.

TOTAL COST OF PROJECT

Sl.No.	Description	Amount (Rs.)
1.	Cost of ANR Plantation @200 plants per ha with 18 months old seedling over 32.00 ha @ Rs. 1,00,938/-	32,30,016.00
2.	Cost of ANR Plantation @500 plants per ha with 18 months old seedling over 32.50 ha @ Rs. 1,42,904/-	46,44,380.00
3.	Cost of Solar Fencing with RCC Pillars(400 Pillars/RKM) over 64.5 ha @ Rs.1,70,045 /-	1,09,67,902.50
4.	Soil & Moisture Conservation work @ 37,415/- per Ha over 64.50 ha	24,13,267.50
	Water provision to CA Plantation	
5.	Water provision to CA Plantation through Solar system with Bore well (1 system for 5 ha. Plantation) fitted with Drip system = Rs. 2,33,786.00 per ha X 64.50 ha	1,50,79,197.00
	Total Plantation Cost	3,63,34,763.00
6.	15% of total plantation cost towards EPA/incentives to VSS including Monitoring & Evaluation	54,50,214.95
	Total:-	4,17,84,977.95
		or
		4,17,84,977.95
	INFRASTRUCTURE (To be provided in Kinds):	
7.	(a) Supply Toyota Innova Crysta ZX 2.4 AT 7STR (Pearl White) with all accessories, including RTO, Insurance and other charges.	In kind
	(b) Supply of Inverter of 11,000 KVA along with 15 batteries of 4 years warranty. (2-Sets)	
	(c) One high end Laptop for Office use of Divisional Forest Officer (MAC Model-Apple (Mac Book Pro) 14" (Protection Plan).	


 31/01/23
 Divisional Forest Officer,
 Rourkela Division.

prepared by me


 31.01.23

ACF Rourkela

24/11/22
OFFICE OF THE FOREST RANGE OFFICER, BANKI FOREST RANGE

Email ID: fmu_banki@yahoo.in

Memo No. 1133, Date 01/11/2022

To

The Divisional Forest Officer,
Rourkela Division, Rourkela

Sub: Identification/Allotment of 64.500 ha non-forest Govt land for raising compensatory afforestation in lieu forest to be diverted in respect of Netrabandh Pahar (West) Iron Ore Block of M/s Raga Tradecon Pvt Ltd.

Ref: Memo No.8787 dt 26.10.2022 of DFO, Rourkela.

Sir,

With reference to memo on the captioned subject, in am to report you that the non-forest Govt land measuring 64.500 hact in Village Mahupada under Koirah Tahasil, Banki Range of M/s Raga Tradecon Pvt Ltd for raising compensatory afforestation in lieu forest land to be diverted in respect of Netrabandh Pahar (West) Iron Ore Block was jointly verified with official of Revenue department on dt29.09.2022. The findings with reference to suitability of said land for the purpose of plantation are as follows

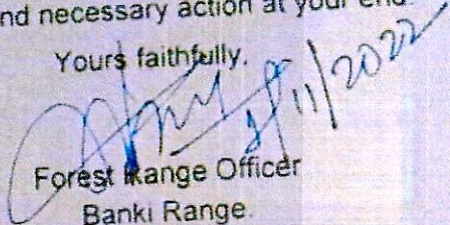
1. That M/s Raga Tradecon Pvt. Ltd has submitted the proposal to obtain diversion of 64.152 ha. of forest land for iron ore mining under Section 2(ii) of the Forest (Conservation) Act 1980. Equal extent of non-Forest Govt land over 64.500 ha in village Mahupada under Banki Range has been identified for aforesaid purpose.
2. That the Proposed compensatory CA land site forming compact patch of more than 4 ha.
3. That the above lands are free from encroachment & encumbrances and also suitable for plantation having adequate soil depth
4. That the nearest Reserve Forest is Silkuta RF and the approximate distance of the site from the RF is about 0.5km and situated in North East direction
5. That on verification it is found that, the scheduled area of 64.500 ha is suitable ANR for plantation. The crown density of the proposed site is

varies from 0.2 to 0.4 ANR plantation over 32.5 Ha @200 nos. seedlings
& 32.0 Ha @500 per hectare may kindly be considered

6. The existing vegetation in the aforesaid site sparsely covered with Sal, Kendu, Asan, Mahul, Kurum, Chara etc.

The joint verification report along with Geo- PDF photograph, DGPS coordinate of boundary pillars, treatment map and Google image of said identified area is attached herewith for information and necessary action at your end.

Yours faithfully,


Forest Range Officer
Banki Range.

Encl:As above

OFFICE OF THE TEHSILDAR, KOIRA

E-Mail: tah.koirā-od@nic.in Phone. No- 06625-235380

To

Letter No..2531.../Dt...31.10.2022../

The Addl. District Magistrate,
Sundargarh.

Sub: - Identification / allotment of non-forest Govt. land for raising Compensatory afforestation in lieu of diversion of forest land in respect of Netrabandha Pahar (West) Iron Ore Block of M/s Raga Tradecon Pvt Ltd.

Ref: - Dist. Office letter No.12426 dated 21.10.2022.

Sir,

With reference to above cited letter on the subject, it is to inform you that the non-forest Government land measuring 64.500 ha at village- Mahupada under Koira Tahasil in Sundargarh District identified for the aforesaid purpose. The land schedule attached were jointly verified with the forest official on dt 31.10.2022. On field verification & record it is found that: -

- The above non- forest Government land identified is in compact patches of 4 Ha or more having adequate soil depth suitable for plantation from management point of view.
- The above government land found suitable for plantation is free from encroachment and encumbrances.
- The above government land is not covered under 4(I) Notification.
- The above government land is not covered under DLC report.
- The above government land is not allotted previously.
- The above government land is not covered under covered under any M.L/P. L areas.
- The above plot not settled in favors of individual/ community under F.R. Act,2006.
- The Status of the above plot is non-forest as on 25.10.1980.
- The above plots are not covered under any proposed reserved forest.
- The above plots are unfit not only for agriculture, but also for other development requirements.
- The above plots have no future potential for agrarian or industrial use.

The joint verification report in the enclosed Performa duly signed along with the letter of consent to pay the premium obtained from the user agency and maps are sent here with for kind information.

Enclosed: - As above.

Yours faithfully,

Sd/ —

Tahasildar, Koira.

Received
Sir
21/10/22

21/10/22

Memo No. 2532 / Dt. 31.10.2022 /

Copy submitted to the Divisional Forest officer, Rourkela Division for kind information with reference to Memo No. 8788 Dt 26.10.2022. Joint verification report. Land schedule and 14 copies of map of CA land is enclosed for taking necessary action at your end.


Tahasildar, Koira

Memo No. _____ / Dt. _____ /

Copy submitted to the Divisional Forest officer, Bonai Division for kind information.


Tahasildar, Koira

Memo No. _____ / Dt. _____ /

Copy forwarded to M/s Raga Tradecon Pvt Ltd for information and necessary action.


Tahasildar, Koira

**JOINT VERIFICATION OF NON- FOREST GOVT. LAND FOR COMPENSATORY AFFORESTATION IN
RESPECT OF NETRABANDH IRON ORE BLOCK(WEST) OF RAGA TRADECON PVT LTD**

Date: -.....

Tahsil: -Koirā

Range: -Banki Range


Sl no.	Name of Village	Khata No	Plot no	Kissam	Area as per RoR in Ha.	Area found Suitable for Plantation in Ha			Surrounded by				Area in Ha found for Unsuitable with Reason	Remarks
						AR	ANR	Total	North	South	East	West		
1	2	3	4	5	6	7	8	9	10				11	
1	Mahupada	44(AAA)	10/773(p)	Pahad	4.470			2.460	Plot No-15,773(p)	Plot No-774	Plot No-15	Plot No-6		
2	Mahupada	44(AAA)	29/774(p)	Pahad	13.090			12.240	Plot No-773	Plot No-46	Plot No-776	Plot No-6		
3	Mahupada	44(AAA)	15/775	Pahad	10.420			10.420	Plot No-28	Plot No-776	Plot No-793	Plot No-774		
4	Mahupada	44(AAA)	15/776	Pahad	8.900			8.900	Plot No-775	Plot No-99	Plot No-796	Plot No-774		
5	Mahupada	44(AAA)	222/793	Pahad	3.620			3.620	Plot No-6	Plot No-37	Plot No-35	Plot No-6		
6	Mahupada	44(AAA)	222/794(p)	Pahad	2.110			1.850	Plot No-777	Plot no-780	Plot No-37,38	Plot No-6		
7	Mahupada	44(AAA)	222/795(p)	Pahad	7.080			3.710	Plot No-778	Plot No-781	Plot No-93	Plot No-780(p)		
8	Mahupada	44(AAA)	222/796	Pahad	3.950			3.950	Plot No-773	Plot No-46	Plot No-776	Plot No-6		
9	Mahupada	44(AAA)	35/777	Pahad	4.860			4.860	Plot No-6	Plot No-37	Plot No-35	Plot No-6		
10	Mahupada	44(AAA)	38/778	Pahad	4.860			4.860	Plot No-777	Plot No-780	Plot No-36,38	Plot No-6		
11	Mahupada	44(AAA)	93/780(p)	Pahad	4.350			2.130	Plot No-778	Plot No-781	Plot No-93	Plot No-780(p)		
12	Mahupada	44(AAA)	108/781(p)	Pahad	7.180			2.130	Plot No-780	Plot No-781(p)	Plot No-781(p)	Plot No-782		
13	Mahupada	44(AAA)	108/782(p)	Pahad	8.300			2.500	Plot No-782(p)	Plot No-788,789	Plot No-781	Plot No-782(p),109		

14	Mahupada	44(AAA)	115/788(p)	Pahad	6.270			Plot No-782	Plot No-788(p)	Plot No-789	Plot No-109	
15	Mahupada	44(AAA)	115/789(p)	Pahad	6.800			Plot No-782	Plot No-789(p)	Plot No-789(p)	Plot No-788	
Total					103.260			64.500				

1. Certified that the above non- forest Government land as mentioned above is in compact patches of 4 Ha or more having adequate soil depth suitable for plantation from management point of view.
2. Certified that the above non- forest Government land found suitable for plantation is free from encroachment and encumbrances.
3. Certified that the above non- forest Government land is not covered under 4(I) Notification.
4. Certified that the above non- forest Government land is not covered under DLC report.
5. Certified that the above non- forest Government land is not allotted previously.
6. Certified that the above non- forest Government land is not covered under covered under any M.L/P. L areas.
7. Certified that the above plot not settled in favors of individual/ community under F.R. Act,2006.
8. Certified that the Status of the above plot was non forest as on 25.10.1980.
9. Certified that the above plots are not covered under any proposed reserved forest.
10. Certified that the above plots are unfit not only for agriculture, but also for other development requirements.
11. Certified that the above plots have no future potential for agrarian or industrial use.


REVENUE INSPECTOR
K. D. LANG


FORESTER
P. A. JAMUNDA SECTION


Forest Range Officer
Forest Range


Divisional Forest Officer
Rourkela Division

SUITABILITY CERTIFICATE OF 64.500 HA OF NON FOREST GOVT LAND IN VILLAGE MAHUPADA UNDER KOIRA TAHASIL, DISTRICT SUNDERGARH IDENTIFIED/ALLOTTED FOR RAISING COMPENSATORY AFFORESTATION AGAINST THE MINING PROJECT OF NETRABANDH (WEST) IRON ORE BLOCK OF M/S RAGA TRADECON PVT LTD.

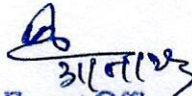
1. Certified that the above non- forest Government land identified for CA land is in compact patches of 4 Ha or more having adequate soil depth suitable for plantation from management point of view.
2. Certified that the above government land found suitable for plantation is free from encroachment and encumbrances.
3. Certified that the above government land is not covered under 4(I) Notification.
4. Certified that the above government land is not covered under covered under DLC report.
5. Certified that the above government land is not allotted previously.
6. Certified that the above government land is not covered under covered under any M.L/P. L areas.
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9. Certified that the above plots are not covered under any proposed reserved forest.
10. Certified that the above plots are unfit not only for agriculture, but also for other development requirements.
11. Certified that the above plots have no future potential for agrarian or industrial use.


31.10.2022
REVENUE INSPECTOR
K BALANG


FORESTER
SAIJIAMUNDA SECTION


Tahsil Officer
KOIRA


21/10/22
Forest Range Officer
Banki Range


31/10/22
Divisional Forest Officer
Rourkela Division

LAND SCHEDULE IN VILLAGE:MAHUPADA UNDER TAHASIL:KOIRA, DISTRICT:SUNDARGARH IDENTIFIED FOR RAISING COMPENSATORY AFFORESTATION IN LIEU OF DIVERSION OF FOREST LAND OVER AN AREA OF 64.5 Ha. IN RESPECT OF NETRABANDHA PAHAR (WEST) IRON ORE BLOCK OF M/S RAGA TRADECON PVT LTD.

Sl.No	Name of Village	Khata No	Plot No	Kissam	Area as per RoR in AC	Area as per RoR in Ha	Area Consider for CA in Ha.	Remarks
1	2	3	4	5	6	7	8	9
1	Mahupada	44(AAA)	10 /773(p)	Pahad	11.05	4.470	2.460	
2	Mahupada	44(AAA)	29/774(p)	Pahad	32.35	13.090	12.240	
3	Mahupada	44(AAA)	15/775	Pahad	25.75	10.420	10.420	
4	Mahupada	44(AAA)	15/776	Pahad	22	8.900	8.900	
5	Mahupada	44(AAA)	222/793	Pahad	8.95	3.620	3.620	
6	Mahupada	44(AAA)	222/794(p)	Pahad	5.22	2.110	1.850	
7	Mahupada	44(AAA)	222/795(p)	Pahad	17.5	7.080	3.710	
8	Mahupada	44(AAA)	222/796	Pahad	9.75	3.950	3.950	
9	Mahupada	44(AAA)	35/777	Pahad	12	4.860	4.860	
10	Mahupada	44(AAA)	38/778	Pahad	12	4.860	4.860	
11	Mahupada	44(AAA)	93/780(p)	Pahad	10.75	4.350	2.130	
12	Mahupada	44(AAA)	108/781(p)	Pahad	17.75	7.180	2.130	
13	Mahupada	44(AAA)	108/782(p)	Pahad	20.5	8.300	2.500	
14	Mahupada	44(AAA)	115/788(p)	Pahad	15.5	6.270	0.520	
15	Mahupada	44(AAA)	115/789(p)	Pahad	16.8	6.800	0.350	
Total					243.87	103.260	64.500	

- 1.Certified that the above degraded/non forest government land as mentioned in column no.8 is in compact patch of 5.00 ha or more having adequate soil depth suitable for plantation.
- 2.Certified that the above government land found suitable for plantation and free from encroachment and encumbrance
- 3.Certified that the above government land is not covered under 4(1) Notification.
- 4.Certified that the above government non forest land is not covered under DLC report.
- 5.Certified that the above government land is not allotted previously.
- 6.Certified that the above government land is not covered any M.L/P.L area.
- 7.Certified that the above plots are not settled in favour individual/community under F.R Act, 2006.
- 8.Certified that the status of the above non forest plot are non forest as on 25.10.1980.
- 9.Certified that the above plots are not covered under any proposed reserved forest.
- 10.Certified that the above plots are unfit not only for agriculture, but also for other developmental requirements (applicable incase non forest Govt. Land).
- 11.Certified that the above plots have no future potential for agrarian or industrial use(applicable in case non-forest Govt. Land)

[Signature]
31.10.2022
REVENUE INSPECTOR
K BALANG

[Signature]
FORESTER
RAJAMUNDA SECTION

[Signature]
Tehsil Officer
KOIRA


[Signature]
21-10-22
Forest Range Officer
Banki Range

[Signature]
31/10/22
Divisional Forest Officer
Rourkela Division

**DGPS COORDINATE OF BOUNDARY PILLARS OF THE AREA IDENTIFIED FOR RAISING COMPENSATORY
AFFORESTATION IN LIEU OF DIVERSION OF FOREST LAND OVER AN AREA OF 64.5 Ha. IN
VILLAGE:MAHUAPADA UNDER TAHASIL:KOIRA, DISTRICT:SUNDARGARHIN RESPECT OF NETRABANDHA
PAHAR (WEST) IRON ORE BLOCK OF M/S RAGA TRADECON PVT LTD.**

Pillar No	Easting	Northing	LONGITUDE	LATITUDE	Lat_DMS	Lon_DMS	Patch_No
1	295939.2543	2444483.358	85.022053	22.093338	22° 5' 36.016" N	85° 1' 19.391" E	Patch-A
2	295794.1642	2444410.263	85.020657	22.092661	22° 5' 33.579" N	85° 1' 14.364" E	Patch-A
3	295697.8557	2444404.125	85.019724	22.092594	22° 5' 33.339" N	85° 1' 11.007" E	Patch-A
4	295630.1222	2444385.921	85.01907	22.092422	22° 5' 32.719" N	85° 1' 8.653" E	Patch-A
5	295516.457	2444358.828	85.017972	22.092164	22° 5' 31.790" N	85° 1' 4.701" E	Patch-A
6	295453.2214	2444401.659	85.017354	22.092543	22° 5' 33.155" N	85° 1' 2.476" E	Patch-A
7	295360.5112	2444420.497	85.016454	22.092702	22° 5' 33.729" N	85° 0' 59.234" E	Patch-A
8	295161.1208	2444397.002	85.014525	22.092467	22° 5' 32.880" N	85° 0' 52.290" E	Patch-A
9	295047.3153	2444356.818	85.013428	22.092091	22° 5' 31.526" N	85° 0' 48.339" E	Patch-A
10	295030.5478	2444438.682	85.013255	22.092828	22° 5' 34.180" N	85° 0' 47.717" E	Patch-A
11	294972.9744	2444453.075	85.012695	22.092951	22° 5' 34.623" N	85° 0' 45.702" E	Patch-A
12	294931.6993	2444522.29	85.012286	22.093571	22° 5' 36.856" N	85° 0' 44.231" E	Patch-A
13	294966.6244	2444570.974	85.012619	22.094015	22° 5' 38.453" N	85° 0' 45.427" E	Patch-A
14	294946.516	2444611.402	85.012419	22.094377	22° 5' 39.758" N	85° 0' 44.707" E	Patch-A
15	294940.166	2444638.707	85.012354	22.094623	22° 5' 40.643" N	85° 0' 44.474" E	Patch-A
16	294941.8593	2444672.574	85.012366	22.094929	22° 5' 41.745" N	85° 0' 44.517" E	Patch-A
17	294960.9094	2444705.382	85.012546	22.095228	22° 5' 42.819" N	85° 0' 45.167" E	Patch-A
18	294953.4851	2444745.096	85.012469	22.095585	22° 5' 44.107" N	85° 0' 44.890" E	Patch-A
19	295089.5014	2444845.179	85.013775	22.096505	22° 5' 47.418" N	85° 0' 49.588" E	Patch-A
20	295191.354	2444830.869	85.014763	22.096388	22° 5' 46.996" N	85° 0' 53.147" E	Patch-A
21	295202.9595	2444721.148	85.014889	22.095398	22° 5' 43.434" N	85° 0' 53.602" E	Patch-A
22	295316.466	2444753.533	85.015985	22.095704	22° 5' 44.535" N	85° 0' 57.546" E	Patch-A
23	295330.436	2444853.228	85.016108	22.096606	22° 5' 47.782" N	85° 0' 57.988" E	Patch-A
24	295386.1574	2444913.077	85.01664	22.097153	22° 5' 49.750" N	85° 0' 59.905" E	Patch-A
25	295536.6527	2444960.067	85.018092	22.097595	22° 5' 51.342" N	85° 1' 5.132" E	Patch-A
26	295623.1716	2444987.213	85.018927	22.09785	22° 5' 52.261" N	85° 1' 8.138" E	Patch-A
27	295700.8005	2444967.37	85.019682	22.09768	22° 5' 51.648" N	85° 1' 10.854" E	Patch-A
28	295774.1431	2444935.143	85.020396	22.097398	22° 5' 50.632" N	85° 1' 13.427" E	Patch-A
29	295851.772	2444916.093	85.021151	22.097235	22° 5' 50.045" N	85° 1' 16.144" E	Patch-A
30	295895.2617	2444855.875	85.02158	22.096696	22° 5' 48.106" N	85° 1' 17.688" E	Patch-A
31	295969.5568	2444805.287	85.022306	22.096248	22° 5' 46.493" N	85° 1' 20.302" E	Patch-A
32	295990.4638	2444772.912	85.022513	22.095958	22° 5' 45.450" N	85° 1' 21.046" E	Patch-A
33	295967.1474	2444641.074	85.022303	22.094765	22° 5' 41.155" N	85° 1' 20.292" E	Patch-A
34	294197.2798	2443490.531	85.005302	22.084169	22° 5' 3.007" N	85° 0' 19.087" E	Patch-B
35	294138.5422	2443476.244	85.004735	22.084033	22° 5' 2.517" N	85° 0' 17.045" E	Patch-B
36	294122.4421	2443510.598	85.004574	22.084341	22° 5' 3.627" N	85° 0' 16.468" E	Patch-B
37	294055.992	2443522.281	85.003929	22.084439	22° 5' 3.979" N	85° 0' 14.145" E	Patch-B
38	293995.9531	2443593.561	85.003338	22.085075	22° 5' 6.270" N	85° 0' 12.019" E	Patch-B
39	294014.0775	2443598.683	85.003513	22.085123	22° 5' 6.444" N	85° 0' 12.648" E	Patch-B
41	294086.1546	2443657.219	85.004204	22.08566	22° 5' 8.378" N	85° 0' 15.135" E	Patch-B
42	294225.8548	2443633.406	85.005561	22.085462	22° 5' 7.663" N	85° 0' 20.018" E	Patch-B
43	294336.9256	2443743.43	85.006623	22.086468	22° 5' 11.286" N	85° 0' 23.842" E	Patch-B


FORESTER
PAJAMUNDA SECTION


Forest Range Officer
PAJAMUNDA SECTION

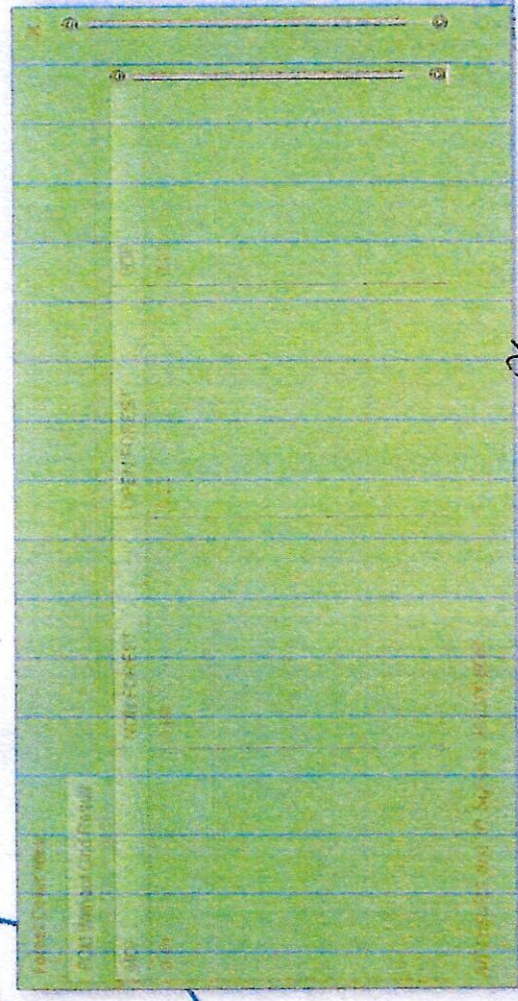
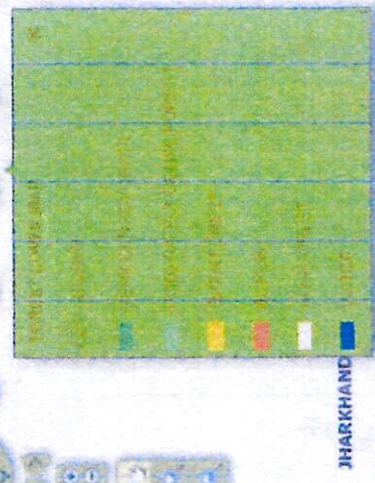

Divisional Forest Officer
PAJAMUNDA SECTION

44	294432.1181	2443844.639	85.007532	22.087394	22° 5' 14.617" N	85° 0' 27.116" E	Patcl
45	294478.3706	2443845.178	85.00798	22.087404	22° 5' 14.654" N	85° 0' 28.729" E	Patcl
46	294478.6208	2443923.778	85.007973	22.088114	22° 5' 17.209" N	85° 0' 28.702" E	Patcl
47	294554.821	2443981.246	85.008704	22.088641	22° 5' 19.109" N	85° 0' 31.333" E	Patcl
48	294597.1544	2444002.307	85.009111	22.088837	22° 5' 19.812" N	85° 0' 32.800" E	Patcl
49	294646.7009	2444102.561	85.009578	22.089748	22° 5' 23.091" N	85° 0' 34.482" E	Patcl
50	294669.5445	2444143.7	85.009795	22.090122	22° 5' 24.438" N	85° 0' 35.260" E	Patc
51	294689.4412	2444169.947	85.009984	22.090361	22° 5' 25.300" N	85° 0' 35.942" E	Patc
52	294695.7913	2444228.685	85.010038	22.090892	22° 5' 27.212" N	85° 0' 36.137" E	Patc
53	294716.5346	2444246.888	85.010237	22.091059	22° 5' 27.812" N	85° 0' 36.852" E	Patc
54	294730.293	2444241.914	85.010371	22.091016	22° 5' 27.657" N	85° 0' 37.334" E	Patc
55	294762.4377	2444236.614	85.010683	22.090972	22° 5' 27.498" N	85° 0' 38.458" E	Patc
56	294822.2623	2444215.138	85.011265	22.090785	22° 5' 26.825" N	85° 0' 40.554" E	Patc
57	294857.6107	2444271.124	85.0116	22.091294	22° 5' 28.660" N	85° 0' 41.761" E	Patc
58	294874.7558	2444285.941	85.011765	22.09143	22° 5' 29.149" N	85° 0' 42.353" E	Patc
59	294887.985	2444283.507	85.011893	22.09141	22° 5' 29.075" N	85° 0' 42.815" E	Patc
60	294914.8138	2444213.815	85.012162	22.090784	22° 5' 26.822" N	85° 0' 43.783" E	Patc
61	294940.9017	2444144.759	85.012423	22.090163	22° 5' 24.588" N	85° 0' 44.724" E	Patc
62	295052.3445	2444150.262	85.013502	22.090226	22° 5' 24.814" N	85° 0' 48.608" E	Patc
63	295022.3936	2444107.188	85.013218	22.089834	22° 5' 23.401" N	85° 0' 47.583" E	Patc
64	294907.0536	2444085.623	85.012103	22.089625	22° 5' 22.651" N	85° 0' 43.570" E	Patc
65	294775.7661	2444058.963	85.010834	22.089369	22° 5' 21.729" N	85° 0' 39.004" E	Patc
66	294729.411	2443908.944	85.010404	22.088009	22° 5' 16.833" N	85° 0' 37.455" E	Patc
67	294643.2096	2443847.666	85.009577	22.087446	22° 5' 14.805" N	85° 0' 34.477" E	Patc
68	294623.6833	2443846.873	85.009388	22.087436	22° 5' 14.771" N	85° 0' 33.796" E	Patc
69	294588.1233	2443812.106	85.009048	22.087118	22° 5' 13.626" N	85° 0' 32.572" E	Patc
70	294547.6419	2443774.324	85.00866	22.086772	22° 5' 12.380" N	85° 0' 31.177" E	Patc
71	294505.7318	2443719.079	85.008261	22.086269	22° 5' 10.567" N	85° 0' 29.740" E	Patc
73	294479.8554	2443688.969	85.008014	22.085994	22° 5' 9.577" N	85° 0' 28.852" E	Patc
74	294451.2803	2443612.769	85.007747	22.085302	22° 5' 7.088" N	85° 0' 27.890" E	Patc
75	294348.8863	2443597.688	85.006757	22.085154	22° 5' 6.554" N	85° 0' 24.326" E	Patc
76	294246.4924	2443582.606	85.005767	22.085006	22° 5' 6.021" N	85° 0' 20.761" E	Patc
77	294226.5877	2443500.429	85.005585	22.084261	22° 5' 3.341" N	85° 0' 20.105" E	Patc


FORESTER
PAJAMUNDA SECTION


Forest Range Officer
Banki Range


Divisional Forest Officer
Rourkela Division



Lat: 22.099 Long: 85.011
Scale: 1:10753



[Signature]
Divisional Forest Officer
Rourkela 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:-

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 (l Ha.)	Classification of identified land(in ha.)							Area suitable for plantation					Plantation Model(AR/A NR)	Remark
				Very Dense	Moderate	Open Forest	Non-Forest	Scrub	Water	Total	Open Forest	Very Dense	Moderate	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1	Banki	Mahupada Village	64.5	0.5	41	23	0	-	-	64.5	23	0.5	41	64.5	ANR 200 Plant over 32.5 Ha and ANR 500 Plants Over 32 Ha		

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Countersigned

RCCF, Rourkela Circle.

Divisional Forest Officer,
Rourkela Forest Division.


Divisional Forest Officer,
Rourkela Forest Division.

Financial Outlay for **Compensatory Afforestation Scheme** over an area of **64.50 ha** of **Non-forest land** identified in **Mahupada** under Koira Tahasil in Banki Forest Range of **Rourkela Forest Division** against 66.242 ha of forest land to be diverted for **Netrabandha Pahar (West) Iron Ore Block** of **M/s Raga Tradecon Pvt. Ltd.** of Sundargarh District as per approved One-time Cost Norm

Sl. No.	Description	Amount (Rs.)
1.	Cost of ANR Plantation @ 200 Plant per ha over 32.0 ha @ Rs.1,00,938/- per ha with 10 years maintenance	32,30,016.00
2.	Cost of ANR Plantation @ 500 Plant per ha over 32.5 ha @ Rs.1,42,904/- per ha with 10 years maintenance	46,44,380.00
3.	Cost of fencing with solar fencing with RCC pillars over 64.5 ha @ Rs.1,70,045/- per 250 RMT/ ha with 10 years maintenance	1,09,67,903.00
4.	Cost of SMC activities like staggered trenches, percolation pits, contour trench, graded earthen bund, LBCD, wire mesh LBCD, Sub-Surface Dyke and WHS as per the slope and site requirement @ Rs.37,415.00 per ha over 64.5 ha with 5 years maintenance	24,13,268.00
5.	Watering model W-I: Borewell fitted with Solar and Drip System (1 Borewell for 5 ha Plantation) a. @ Rs.42,489/-X6 Nos. = Rs.2,54,934/- b. @ Rs.1,06,222/- X 7 Nos. = Rs.7,43,554/-	9,98,488.00
Grand Total		2,22,54,055.00 or rounded off to 2,22,54,100.00
6.	Infrastructure to be provided as per consent of the User Agency in kinds as proposed by the DFO, Rourkela Division	
	i. Supply of one Toyota Innova Crysts ZX2.4AT7STR (Pearl White) with all accessories, including RTO, insurance and other charges	

(Rupees Two Crore twenty two lakhs fifty four thousand & one hundred) only

Approved


Principal Chief Conservator of Forests
Forest Diversion & Nodal Officer, FC Act
Principal Chief Conservator of Forests
(Forest Diversion & Nodal Officer FC Act)
O/o. the P.C.C.F Odisha, Bhubaneswar

328/A

328/A