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F.No.FC-FC/Misc09/Mining/IROCH/RPR/1525

Date: 27/11/2023

The Dy. Director General of Forests (Central),
Regional Office, Nagpur.

Sub: **Proposal for diversion of additional 94.293 ha revenue forest land of Gevra OC expansion project of M/s South Eastern Coalfield Limited for mining in Korba District of Chhatisgarh-regarding**

Ref: MoEF & CC leter 8-41/2017-FC (vol-) dtd 31.10.2023

Sir,

On the above subject and reference, please find enclosed the site inspection report of the area proposed for diversion (94.293 ha) as well as that of the CA sites. The earlier proposals with respect to diversion of 46.198 ha, 192.046 ha, 564.885 ha and 100.898 ha have received stage-II approvals after compliance of stage-I conditions. All these diversions belong to one mine. The plantations, reclamation, safety zones, soil moisture conservation measures etc are cumulative and figures reflected in the report have been reckoned from commencement of the mining, During inspection, plantations in stabilized dumps, afforestation in selected sites outside the mine and plantations in safety zone were also observed which have been mentioned in the report.

The site inspection report is submitted for perusal and necessary action.

Yours faithfully,

(Enclosures: as stated)

Chaturbhuja
27/11/23

Chaturbhuja Behera, IFS

Inspector General of Forests.

For information copy to the Inspector General of Forests, FC Section, MoEF & CC, New Delhi

SITE INSPECTION REPORT BY THE REGIONAL OFFICE RAIPUR OF THE PROPOSAL INVOLVING DIVERSION OF 94.293 HA of REVENUE FOREST LAND IN FAVOUR OF M/S SOUTH EASTERN COALFIELDS LIMITED, FOR OPEN CAST MINING OF COAL IN GEVRA AREA IN KORBA DISTRICT IN THE STATE OF CHHATTISGARH

Name of the Inspecting Officer – Chaturbhuj Behera, IFS, IG (Forest), Sub- Office, Raipur

In pursuance of the directions of Ministry's letter No. I/56501/2023 dated: 31.10.2023, the undersigned conducted inspection of the proposed diversion areas, on 23rd November, 2023 and 24th November, 2023, and of the identified Compensatory Afforestation sites on 25th Nov, 2023. During the inspection on 23rd and 24th, following officials of the State Forest Department, representatives of the User Agency and Revenue officials were present.

Officials from the User Agency

1. Shri. Prashant Jadhav (Retd. IFS), Senior Advisor (Env & Forest), SECL
2. Shri Ashok Kumar, General Manager, SECL Gevra Project
3. Shri G K Kopariha, Area Nodal Officer (Environment/Forest) SECL Gevra Area
4. Smt. Anumol R Panicker, Dy Manager (Env./Forest), SECL Gevra Area
5. Shri Nithin A, MT (Env./Forest) SECL Gevra Area

Other Officials present:

1. Shri S K Rathre, Range Officer, Pali Range Katghora Division
2. Shri Vinod Kumar Kanwar, Patwari Khodri
3. Shri Rakesh Kumar Shrivastava, Research Investigator-Forestry
4. Shri Peelidas Mahant, Kotwar Gevra

1. LEGAL STATUS OF THE FOREST LAND PROPOSED FOR DIVERSION

The proposed revenue forest land of 94.293 ha has been notified by SECL under CBA act 1957, Sec 9(I) no. 3506E dated 18.07.2018. The instant proposal is located in two villages; namely, Gevra and Khodri, involving an area of 81.380 ha in Gevra 12.913 ha in Khodri respectively.

2. ITEM-WISE BREAK-UP DETAILS OF THE FOREST LAND PROPOSED FOR DIVERSION.

The revenue areas are in 10 patches in two villages.

Sl. No.	Village name	Area (Ha)
1.	Gevra	81.380
2.	Khodri	12.913
	Total	94.293

The instant proposal involves total non-Forest land 503.019 ha of Govt./Tenancy land in 23 Villages, details are enclosed by the UA along with the proposal. During the inspection it was observed that the proposed area for diversion of revenue forest land in Gevra Basti (Rev-Khasra no. 1182(P) with 27.847 Ha; 957 with 4.711 ha; 959 with 6.091ha) has well- established infrastructures (Roads, School, anganbadi, water tank, mobile towers etc) and dense human settlement.

Chaturbhuj

Further it was observed that in Gevra Village (Khasra no. 153 & 277, approx 20 ha of revenue forest land is encroached, and human settlements area and many infrastructures such as concrete road, temples, mobile towers are present there. The remaining area is mostly barren; demarcation pillars are present all around on the ground, except in the encroached area. Conveyor belt G9/G10 passes near the boundary of the proposed Revenue Forest land. The representative of the user agency clarified that it is outside the revenue patch.

Proposed area in Khodri village involving 12.913 ha Revenue Forest land is in two patches. During the inspection it was observed that Gevra Khodri Road passes through one of the patch. Otherwise, most part of the patch is open. This patch (2.699 ha area) touches a brick manufacturing unit, which has encroached one boundary pillar in the border. The other patch (10.214 ha) is also mostly open; a small portion of the land is cultivated. The proposed area contains sparsely occurring trees, like *Maduca indica*, *Terminalia arjuna*, *Scleichera oleosa*, *Pongamia pinnata*, *Ziziphus jujuba*, *Cassia fistula*, *Mangifera indica* etc.

The representative of the User Agency has informed that, out of 94.293 ha, 94.168 ha shall be used for Mining & remaining 0.125 ha shall be used for Mine infrastructure. Entire land of 94.293 ha is required for mining & other infrastructures essential for proposed enhanced coal production of 70 MTPA by the company.

The detail of land use of Gevra Mine is as under:

Existing Mine Lease Area: 4184.486 Ha.

Proposed Mine Lease Area: 4781.798 Ha.

Forest land (Ha.)		Non-forest land		Total land		Grand total
Existing	Proposed	Existing	Proposed	Existing	Proposed	Total
441.410	51.602	1590.84	438.13	2032.250	489.732	2521.982
0.000	0.000	5.000	0.000	5.000	0.000	5.000
0.000	0.000	480.000	0.000	480.000	0.000	480.000
509.434	42.691	593.348	34.879	1102.782	77.570	1180.352
0.000	0.000	6.000	0.000	6.000	0.000	6.000
0.000	0.000	65.000	0.000	65.000	0.000	65.000
0.000	0.000	69.280	0.000	69.280	0.000	69.280
6.000	0.000	0.000	0.000	6.000	0.000	6.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
59.568	0.000	358.606	30.010	418.174	30.010	448.184
1016.412	94.293	3168.074	503.019	4184.486	597.312	4781.798

Patch-wise details of the revenue forest land is appended as ANNEXURE-I.

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3. **Whether proposal involves any construction of buildings (including residential) or not. If yes, details thereof. -**

Yes. The representative of User agency has informed that Rapid Load out System will be constructed in an area of 0.125 Ha.

4. **Total cost of the project at present rates:**

Rs. 11816.40 crores.

5. **Wildlife: Whether forest area proposed for diversion is important from wildlife point of view or not?**

Representatives from the User Agency have informed that as the area is contiguous to the mining area and is sandwiched between mining and habitation. There is no wildlife in the proposed area. However, Wild Life conservation plan has been prepared through State Forest Research & Training Institute (SFRTI), Raipur. The plan will be implemented through State Forest Department. An amount of Rs. 10,08,92,517/- has been deposited in CAMPA on dt: 31.05.2022 for its implementation.

6. **Vegetation:**

Important species: - Important species found in the proposed area include *Maduca indica*, *Terminalia arjuna*, *Scleichera oleosa*, *Pongamia pinnata*, *Ziziphus jujuba*, *Cassia fistula*, *Mangifera indica*, *Holoptelia integrifolia*, *Albizia lebbek*, *Anthocephalus cadamba*, *Dalbergia sissoo*, *Syzygium cumini*, *Adina cordifolia* etc.

During inspection it was observed that site of Gevra village proposed for diversion has vegetation density below 0.3 and large part of the area is encroached and have houses. One small patch of Khodri village appears to have density around 0.4. Examination of the area proposed for diversion using DSS tool reveals that the area has poor vegetation density. A copy of the DSS examination report of the proposal is enclosed. A total of 610 trees were reported to be affected trees by the project, the abstract of which is as below:

Above 60 cm girth – 391 Nos.

Below 60 cm girth – 219 Nos.

Total - 610 Nos.

EFFECT OF REMOVAL OF TREES ON THE GENERAL ECOSYSTEM IN THE AREA:

The area has very poor vegetation density, and large portion of the area has habitation, roads, Government buildings, market and other structures. The representative of the User Agency informed that SECL will undertake extensive plantation for greening the surrounding area in consultation with the local villagers in addition to mandatory CA. The area after mining will also be reclaimed and it will have compact forest. In the beginning, 610 trees will be sacrificed, but more than 1,00,000 trees will be planted in its place and entire area will be greened. Further, these 610 trees will be felled over a period of time and there will be hardly any impact.

7. **Background note on the proposal:**

The User Agency has proposed to enhance production of coal from the Gevra mine from existing level of 52.5 MTPA to 70 MTPA. Earlier, the User Agency has been accorded approval by the Central Government on 3.06.2009 (IA Division) for enhancing their production level of Gevra Mine from 25 MTPA to 35 MTPA. Subsequently, the User Agency has been accorded approval for production level of 52.5 MTPA by the MoEF&CC. So far, the user Agency has realized the production level of 52.5 MTPA. During the current phase of enhancement of

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production to 70 MTPA, the User Agency needs an additional area of 597.312 ha which includes 94.293 ha of Revenue Forest land.

The representative of the User Agency have also informed that currently 951.481 MT of mineable reserve are available in the Gevra lease area of 4781.798 ha (as on 01.04.2023) Given the production level of 70 MTPA the life of the mine is 14 years.

Detail of forest existing clearance obtained by the User Agency in the past is given as under:

S. No.	Area Diverted (Ha)	FC Division's File No.	Date of Stage-I approval	Date of Stage-II approval
1.	100.898	8-33/2005-FC	20.10.2006	5.05.2008
2.	564.885	8-79/2006-FC	20.10.2006	20.04.2015
3.	192.046	8-77/2006-FC	20.10.2006	20.04.2015
4.	46.198	8-81/2006-FC	20.10.2006	20.04.2015
5.	112.385	8-41/2017-FC	27.09.2017	21.06.2022
Total	1016.412			
	94.293	Present proposal for enhanced production of 70 MTPA		
Grand Total	1110.705			

8. Compensatory Afforestation

Compensatory afforestation has been proposed over degraded forest land, double in extent (190.00 ha) to the forest area proposed for diversion. The details are as below.

Name of the area	Compartment Number	Area (Ha)	Division
Fingeshwar	5	54	Gariyaband
Chura	160	20	Gariyaband
Chura	161	20	Gariyaband
Chura	232	38	Gariyaband
Pali	OA 599	58	Katghora

Field inspection details of the CA sites is appended as **ANNEXURE-II**.

i. Whether land for compensatory afforestation is suitable from plantation and management point of view or not.

As per the certificate of the DFO, Katghora Forest Division & DFO Gariyaband division, the land identified for raising CA is suitable for plantation. As per the Recorded Forest Area (RF/PF) boundary available on DSS, proposed CA sites are located in degraded forest land.

Out of total area proposed for compensatory afforestation, 3 ha of land is classified as moderately dense forest, 91 ha as open forest, 23 ha as scrub and 72 ha as non-forest (land without tree cover) in terms of forest classes (as per the ISFR 2021) based on the interpretation of satellite data period 2019-2020.

ii. Whether land for compensatory afforestation is free from encroachments/ other encumbrances.

The concerned DFO has certified that the proposed CA area is free from encroachment/other encumbrances.

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Whether land for compensatory afforestation is important from Religious/ Archaeological point of view.

No, Proposed CA land is not important from the religious/archaeological view point. The same certified by concerned DFOs.

iii. Land identified for raising compensatory afforestation is in how many patches, whether patches are compact or not.

The CA land has been proposed in 5 patches falling in two districts of Chhattisgarh state.

iv. Map with details

Differential GPS map of the area identified for CA for all 5 patches along with its kml/shapes files has been submitted along with the proposal.

v. Total financial outlay

The representative of the User Agency has informed that financial provisions have been made to the tune of Rs. 15.81 crore @ Rs. 8.32 lakhs per ha for raising and maintaining CA for 10 years.

9. Whether proposal involves violation of Forest (Conservation) Act, 1980 or not. If yes, a detailed report on violation including action taken against the concerned officials.

DCF concerned in Part-II has certified that no violation of the Forest (Conservation) Act, 1980 have been committed by the User Agency.

The Revenue Forest land in question is under the control of the Revenue Department. During the inspection it was observed that substantial portion of the proposed land is under encroachment. Buildings, roads, market, government structures like schools, Anganwadi are existing in the area. The representative of the User Agency has informed that Revenue land is being encroached by the encroachers in gradual process and is even being put to unauthorized commercial use by them.

10. Whether proposal involves rehabilitation of displaced persons. If yes, whether rehabilitation plan has been prepared by the State Government or not. Details are furnished specifically if rehabilitation plan would affect any other forest area by translocating outsets in and around the said forest.

It has been already mentioned that large portion of the proposed area has been encroached and habitation has got well-developed over a period of time. The displaced persons have to be rehabilitated and given compensation. SECL will prepare the list of eligible claimants and assess their claims in consultation with the Revenue authorities. Compensation will be paid to the claimants as per the Resettlement and Rehabilitation Policy, 2012 of Coal India Ltd. As informed by SECL, 19.274 ha has been allotted in village Birda by the department of Revenue and Disaster Management as R & R site and preparation of rehabilitation site is underway.

11. Reclamation Plan

The representative of the User Agency has informed that reclamation of the mined out area will be undertaken as per the approved Progressive Mine closure Plan. A copy of the same, along with the approved Mine Plan, has been submitted along with the proposal. As per detail made available to this office, the User Agency has reclaimed 504.8 ha biologically while an area of 1323.583 ha is under technical reclamation. Details of area excavated so far and area reclaimed is given as under:

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**STATUS OF TECHNICAL & BIOLOGICAL LAND RECLAMATION DETAILS AS ON
01.10.2023**

Particulars of the lease area	Approved EMP Capacity (MTY)	C	52.5 MTPA
	Total area of the lease existing (Ha)		4184.486
	Total quarriable area of the project as per approved EMP (Ha)		2037.25
	Void to be left at the closure of the project as per EMP (Ha)		659.25
	Total Area excavated (Ha)		1798.118 Ha
Internal dump / back filled area details (in Ha)	Total quarriable area of the project as per approved EMP	D	2037.25
	Void to be left at the closure of the project as per EMP	E	659.25
	Total Area excavated	F	1798.118
	Prorata Area not required to be backfilled	$G=(E*F)/D$	581.867
	Total Area Technically Reclaimed /Back Filled	H	949.252
	Balance Area to be technically reclaimed / back filled	$I=F-G-H$	266.999
	Area already Biologically Reclaimed	J	137.600
	Balance Area to be Biologically reclaimed	$K=F-G-J$	1078.651
External OB dumps details (in ha)	Total Area of External OB dump	L	374.331
	Area of ext. dump technically reclaimed	M	374.331
	Balance area of ext. OB dump to be technically reclaimed	$N=L-M$	0.00
	Area already Biologically Reclaimed	O	367.200
	Balance Area to be Biologically reclaimed	$P=L-O$	7.131
Total Reclaimed area (in Ha.)	Total Tech. Reclaimed area	$H+M$	1323.683
	Total Biological Reclaimed area	$J+O$	504.800

Schematic map of reclamation as well as plantations made by SECL is appended as **ANNEXURE-III**. Over the years SECL has carried out afforestation in colonies, villages around the mine and reclaimed area. The statement submitted by SECL authorities is also enclosed along with some photographs.

12. Details on catchment and command area under the project.

Catchment area treatment plan has been prepared through Chhattisgarh Council of Science & Technology (CCOST) for the Mine lease area of 4781.798 ha which includes 94.293 Ha. The recommendation in the Report is as below:

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Recommendations in CAT Plan	Status of Compliance as on Sept 2023	Remarks
Area Proposed for Phase Wise Plantation: 670.49 Ha	106.332 Ha.	As per the final report, based on the soil erosion intensity, the sub-watersheds of Gevra OCP were assigned priority for erosion control measures. As per the prioritization zone, activities have been undertaken, especially in Ahiran, Lilagar & Hasdeo watersheds. Cost: approx. Rs. 49.13 Crore, considering the plantation year & complete subsequent maintenance for 4 years.
Gap Plantation: 56.11Ha	Completed	
Intensive Plantation: 9.46 Ha.	Completed	
Steep Slope Stability Measures/Carpeting: 62.42 Ha	52.14 Ha.	
Check Dam 7 nos	The proposed structures will be implemented through State Forest Department. The total cost of the project is Rs 84,47,900/- and the amount has been deposited in CAMPA on dt: 08.11.2021.	
Nala Bunds/ Boulder Checks 11 nos.		
Vegetative Bunds 13 nos.		

13. Cost benefit ratio.

Cost benefit Ratio – 1:3.013

14. Recommendations of the Principal Conservator of Forests/State Government.

The Principal Chief Conservator of Forest & State Government of Chhattisgarh has recommended the proposal without any specific conditions

15. The IG (F) shall give detailed comments on whether there are any alternatives routes/alignments for locating the project on the non-forest land.

Proposal of M/s SECL is for carrying out mining over an area of 94.293 ha of Revenue Forest land and is stated to be required by the User Agency to increase production from existing level of 52.5 MTPA to 70 MPTA. Besides forest land, total non-forest land involved is 4687.505 ha. These areas are coal-bearing area and contiguous to the existing mine. The Revenue Forest patches are surrounded by tenancy land. Mining has to be continuous and these patches can't be left as isolated patch from the technical and economics point of view. Further, the proposed area is also within the plan of the project. There is no alternative to the proposed area.

Detailed observations on the proposal have already been made in the inspection report.

16. Utility of the project. Numbers of Scheduled Castes/Scheduled Tribes to be benefited by the project.

It is informed that mineral reserve of 951.481 MT of coal will be mined per year over a period of 14 years. This coal will be supplied to thermal power plants and other miscellaneous

Chakraborty

consumers to meet the demand of coal in the country. Beside this, the project will also provide direct and indirect employment opportunities to the local people. The project will also enhance the economic development of the region. It is informed by the representative of the User Agency that with the commencement of the project primary and secondary employment opportunities are expected to be improved in the region. It is also expected that additional people will get employment hence job opportunities for the local people as well as immigrants from nearby areas would increase with the mining activity. Around the project area and the proposed area to be diverted, there is sizeable population of SC/ST who will receive benefit from the project.

17. Whether land being diverted has any socio-cultural /religious value. Whether any sacred grove or very old grown trees/forests exists in the areas proposed for diversion.

It is informed by the representative of the User Agency that land being diverted has no socio-cultural /religious value. A certificate to this effect has also been submitted by the DCFs concerned.

18. Situation w.r.t. any P.A.

It is indicated in the proposal that land proposed for diversion is located beyond a distance of 10 km from the boundary of any PAs. The DCF concerned has submitted in Part-II that no National Park, Wildlife Sanctuary, Biosphere Reserve, Tiger Reserve, Elephant Corridor or Wildlife Migration Corridor is located within 10 Km. from boundary of the forest land proposed for diversion. Nearest PA is Achanakmar Tiger Reserve which is located at a distance of about 100 km from the area proposed for diversion.

19. Any other information relating to the project.

- i. Biological reclamation should be done keeping in mind the seral stages of the species. Monoculture of species should be avoided. Attempts should be made to develop multi-storeyed forest with ground flora. Species like Sal may be promoted with special nursery to augment the supply sources.
- ii. Mined out forest area already reclaimed by the User Agency, should be handed over back to the State Forest Department for management and control. The UA should prepare a land surrender schedule for surrender of the mined out and biologically reclaimed forest land in accordance with the existing mine plan irrespective of progressive mine closure plan and submit a surrender schedule.
- iii. It is essential to preserve the top-soil for better growth of plants in the OB dumps/reclaimed area. This is essential especially for growing Sal plants.
- iv. The user agency should undertake comprehensive greening in the surrounding villages with indigenous tree species.
- v. Safety zone of 7.5 m width around the mine lease boundary should be completed in time-bound manner as per the specifications.

(Enclosures: ANNEXURE-I, II & III)

Chaturbhuja
27/11/23

Chaturbhuja Behera, IFS
Inspector General of Forests.

ANNEXURE-I

Village Wise Details of 94.293 ha of land proposed for diversion is Revenue Forest land under the Gevra OC mine

S. No.	Name of Village	Revenue Forests land (Ha)
1.	Gevra	81.380
2.	Khodri	12.913
	Total	94.293

During the Inspection it was observed that Gevra Village in Khasra no. 153 & 277: approx 20 ha of revenue forest land are encroached or human settlements area and many infrastructures such as concrete road, temples, mobile towers are existing.

A conveyor belt G9/G10 is partially overlapped on the boundary of the proposed area. The representative of User Agency has informed that conveyor belt G9/G10 is not within the proposed Revenue Forest land.

Khasra number 585 (1.072 ha) is Muktidham and Khasra No. 579 (0.065 ha) is an open area.

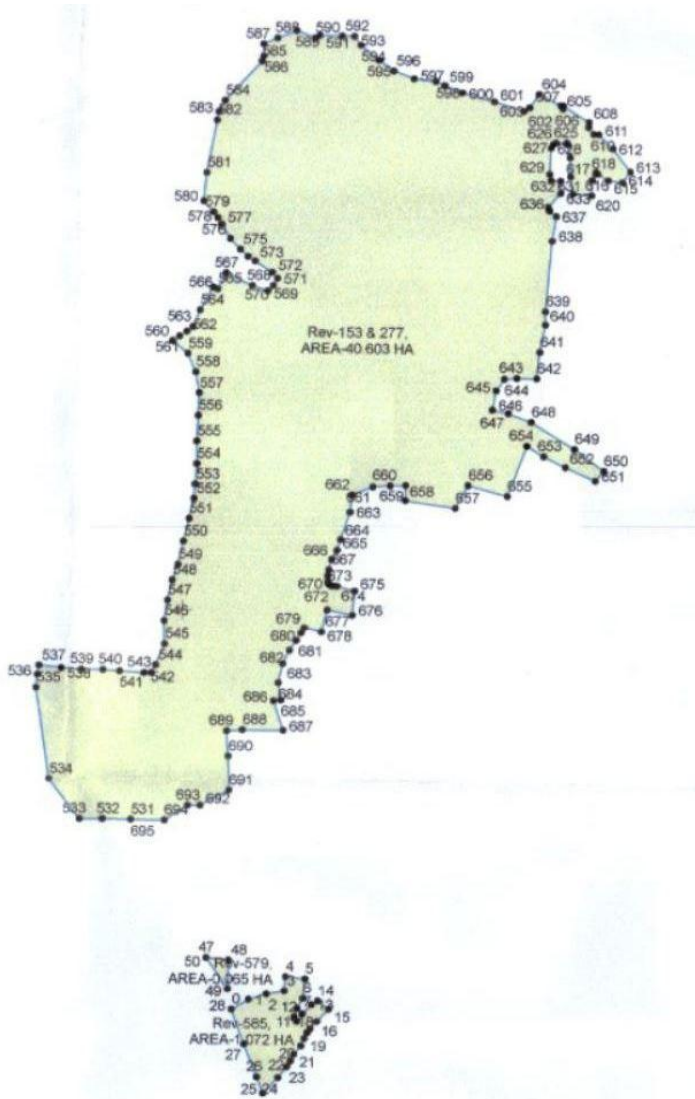


Fig. Gevra Village in Khasra no. 153 & 277 (40.603 ha) and Khasra number 585 (1.072 ha) is Muktidham and 579 (0.065 ha)



Google Satellite map of Gevra Village Khara no. 153 & 277 area 40.603 ha proposed KML file of the proposal





Fig. Gevra Village in Khasra no. 153 & 277 (40.603 ha) and Khasra number 585 (1.072 ha) is Muktidham and 579 (0.065 ha)

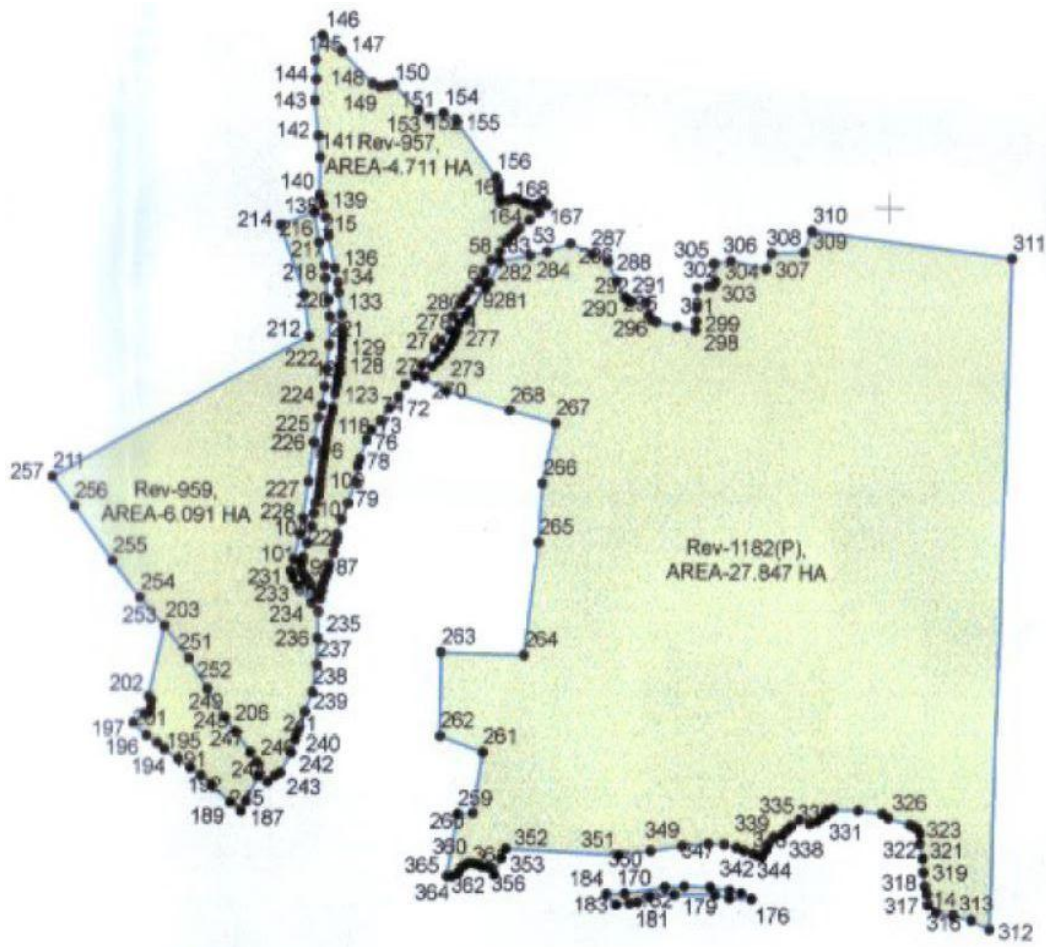


Fig. Gevra Basti (Rev- Khasra no. 1182(P): 27.847 Ha, 957: 4.711 ha, 959: 6.091ha)



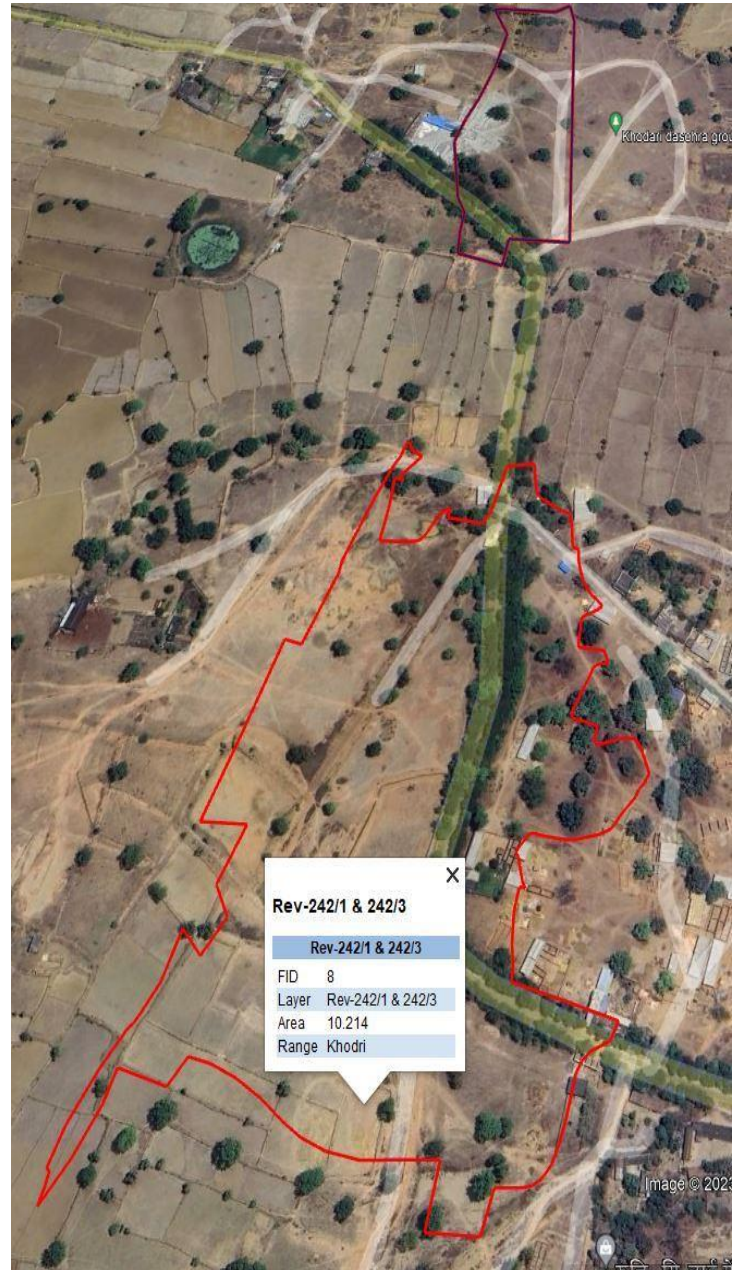
During the inspection it was observed that the proposed area for diversion of revenue forest land in Gevra Basti (Rev- Khasra no. 1182(P): 27.847 Ha, 957: 4.711 ha, 959: 6.091ha) has well-established infrastructures (Meager Roads such as Gevra Basti Main Road, Barpali Road, School, Anganbadi, water tank, mobile towers etc), human settlement & densely populated area.







Fig. Gevra Basti (Rev- Khasra no. 1182(P): 27.847 Ha, 957: 4.711 ha, 959: 6.091ha)



Khodri Village in two patches of revenue forest land is involved in above proposal and total proposed area in Khodri village is 12.913 ha respectively in Khasra no. 242/1 and 242/3 area 10.214 ha and Khasra no. 40(P) area 2.699 ha. During the inspection it was observed that Gevera Khodri Road passes through the area. Species ch as Tendu, Mahua, Arjun, Kushum, Haldu, Maharukh, Mango, Ber, Karanj, Ritha, Amaltash, Karra, Peltophorum etc are sparsely distributed. Most part of land is open area and some part of land is cultivated.



Fig. Khodri village Revenue Forest area Khasra no. 40(P) area 2.699 ha.



Fig. Khodri village is 12.913 ha respectively in Khasra no. 242/1 and 242/3 area 10.214 ha



Fig. Khodri village is 12.913 ha respectively in Khasra no. 242/1 and 242/3 area 10.214 ha and Khasra no. 40(P) area 2.699 ha.



Site Inspection of 94.293 ha for additional land proposed for diversion is Revenue Forest land under the Gevra OC mine Project

ANNEXURE-II**INSPECTION REPORT OF CA SITES**

NAME OF PROPOSAL: Proposal for seeking prior approval of the Central Government under Section 2 of the Forest (Conservation) Act, 1980 in favour of M/s SECL Gevra Open Cast Project for diversion under non-forestry use of 94.293 ha of forest land for Coal mining in Gevra Area under Korba District of Chhattisgarh State (Online Proposal No. 8-41/2017-FC Vol.).

DATE OF INSPECTION OF CA SITE: 25TH November, 2023

As per the directions of Ministry's letter No. I/56501/2023 dated: 31.10.2023, the u/s conducted inspection of the areas identified for Compensatory Afforestation in Katghora Division, on 25th November, 2023. The CA areas fall in two Divisions- Katghora and Gariyaband. In Katghora Division, the CA land proposed is in compartment no. OA 59 (area 58 ha) in Pali Range.

The CA land in Gariyaband District is 132 ha and it is in 04 patches at Fingeshwar (1 patch) & Chura (3 patches) villages.

Patch	Name of the Place	Compartment No.	Area of the Land (ha.)
1	Pali	OA 59	58
2	Chura	Comp-160	20
3	Chura	Comp-161	20
4	Chura	Comp- 232	38
5	Fingeshwar	Comp-5	54
			190

The proposed CA area of 58 ha at Ratija Village, Pali Range in Katghora Forest Division. The details are as below:



Google Satellite map of proposed CA Site

During the site inspection it was observed that the proposed CA site constituting 58 ha at Pali in Katghora Division is proper and suitable for Compensatory afforestation.

- The entire 58 ha area is in one place within the Orange Area.

- During the inspection it was observed that the proposed CA sites have sufficient blanks with scattered vegetation around them. Trees such as *Shorea robusta*, *Syzigium cumini*, *Madhuca indica*, *Butea monosperma*, *Adina cordifolia*, *Pterocarpus marsupium*, *Cassia fistula*, *Buchanania lanzan*, *Lagestromia parviflora*, *Ficus religiosa* are found in the forest. The proposed CA site is plane to rolling and have good soil depth.
- Some portion of the CA having slope above 10 degrees should be treated with soil and water conservation measures.





Fig. Compartment no. OA 59, area 58 ha in Ratija Village, Pali Range in Katghora Forest Division.

The CA land in Gariyaband will be considered as per the recommendation of the State Forest Department. This decision was taken in the meeting held on 23/11/23 in Gevra, Korba under the Chairmanship of the DGF & SS, where the Chairman of CIL, officials of State Forest Department and SECL were also present. The Nodal officer had pointed that more than 100 CA sites are to be inspected, which are also spread in various districts and it is difficult to get them inspected by the Regional offices. Further, it is a practice for Regional Offices to inspect CA lands in projects having area more than 100 ha. Considering the practical aspects, it was decided to accept the recommendation of the state for CA lands in these cases and conduct inspection of representative areas wherever considered necessary.

ANNEXURE-III

AFFORESTATIONS IN OB DUMPS, SAFETY ZONE & OTHER AREAS

SECL has reclaimed 504.8 ha area biologically while an area of 1323.583 ha is under technical reclamation, the details have been mentioned at para 11 of the report. Photographs of plantations in reclaimed OB dump is attached herewith.

A Safety zone plantation of 14 kms was made covering 11 villages and an area of 10.5 Ha has been established by SECL. It has submitted village-wise breakups of the safety zone which is as follows:-

VILLAGE-WISE SAFETY ZONE PLANTATION				
SL.No.	Village	Length in Mtr	Area in Ha. @ 7.5	Total Plantation @2500 per Ha
1	Amgaon	2000	1.500	3750
2	Raliya	500	0.375	938
3	Podhi	1100	0.825	2063
4	Bahanpath	1000	0.750	1875
5	Bhathora	100	0.075	188
6	Naraibodh	600	0.450	1125
7	Mangaon	2100	1.575	3938
8	Gevra	2200	1.650	4125
9	Ghatmunda	1600	1.200	3000
10	Kosmunda	1300	0.975	2438
11	Dhurena	1500	1.125	2813
Total		14000	10.500	26250

For a capacity production of 70 MTY, safety zone plantation of about 27.54 Kms will be done in total. Remaining 13.54 Kms of safety zone will be made after the grant of EC for 70 MTY & FC for 94.293 Ha forest land. Representative of user agency has informed that plantation at SECL Gevra OCP with native species in the available area is being done through CGRVVN since inception. A MOU has been made between SECL & CGRVVN for 5 years (2023-24 to 2027-28) with 1st year for plantation followed by 4 years maintenance period for inside and outside mine lease area.



Fig. Google Satellite map of plantation safety zone total 27.54 Kms will be done and 13.54 Kms of safety zone will be made after the grant of EC for 70 MTY & FC for 94.293 Ha forest land.



Fig. Safety Zone and 6 ha Additional Sal Plantation area





Fig. SECL Gevra Tree Plantation in Internal and External O.B Dump

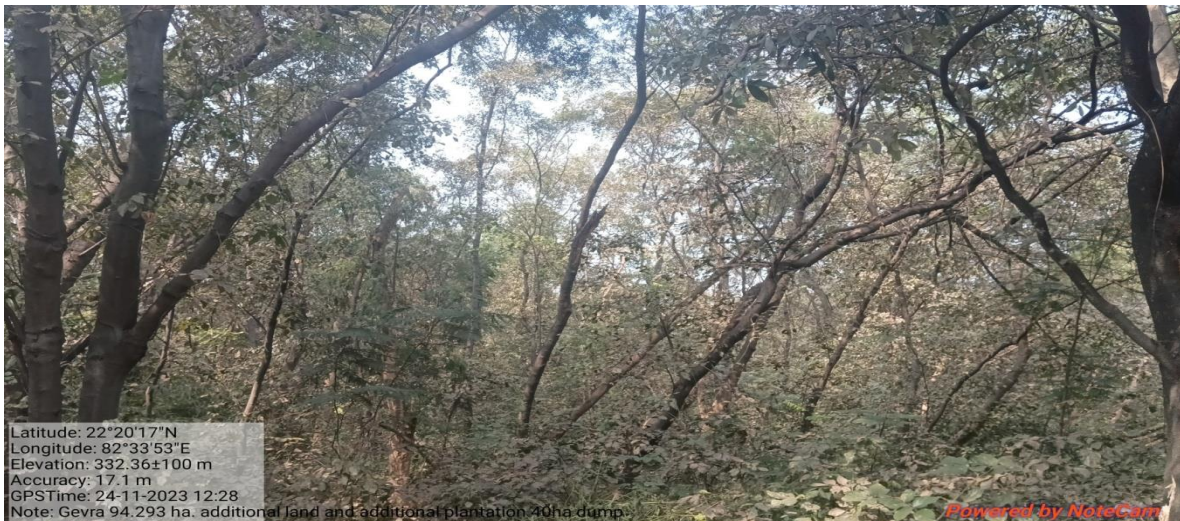
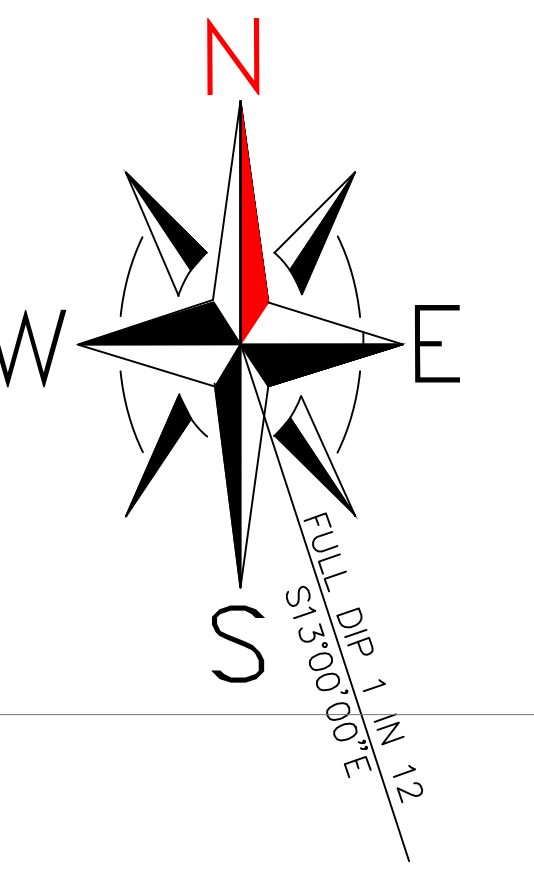
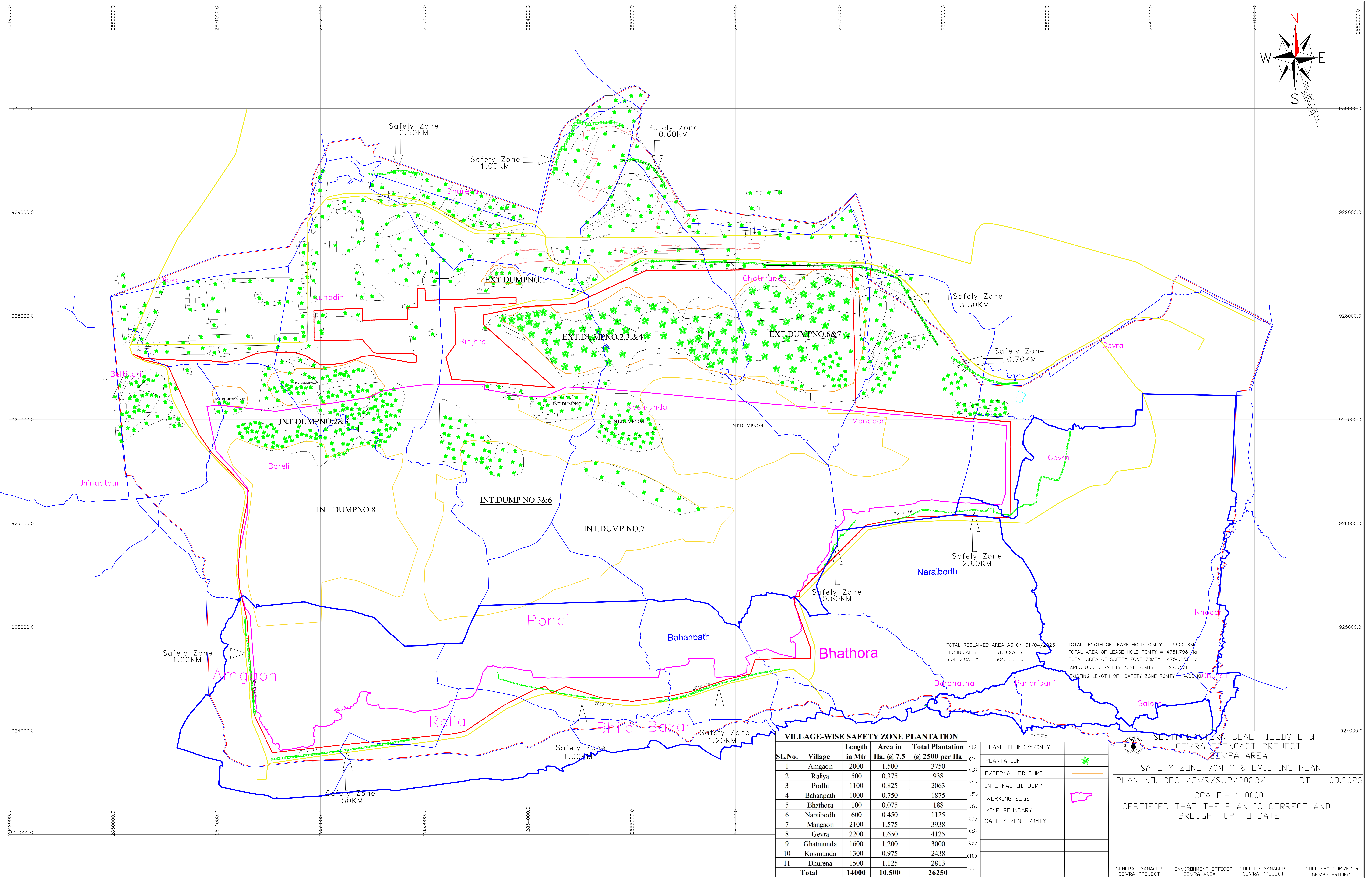


Fig. Plantation in External OB Dump in Gevra OC.



TOTAL RECLAIMED AREA AS ON 01/04/2023
 TECHNICALLY 1310.693 Ha
 BIOLOGICALLY 504.800 Ha

TOTAL LENGTH OF LEASE HOLD 70MTY = 36.00 KM
 TOTAL AREA OF LEASE HOLD 70MTY = 4781.798 Ha
 TOTAL AREA OF SAFETY ZONE 70MTY = 4754.25 Ha
 AREA UNDER SAFETY ZONE 70MTY = 27.5471 Ha
 EXISTING LENGTH OF SAFETY ZONE 70MTY = 14.00 KM

SL.No.	Village	Length in Mtr	Area in Ha. @ 7.5	Total Plantation @ 2500 per Ha
1	Amgaon	2000	1.500	3750
2	Raliya	500	0.375	938
3	Podhi	1100	0.825	2063
4	Bahanpath	1000	0.750	1875
5	Bhathora	100	0.075	188
6	Narabodh	600	0.450	1125
7	Mangaoon	2100	1.575	3938
8	Gevra	2200	1.650	4125
9	Ghatmunda	1600	1.200	3000
10	Kosmunda	1300	0.975	2438
11	Dhurena	1500	1.125	2813
Total		14000	10.500	26250

INDEX	
(1)	LEASE BOUNDARY 70MTY
(2)	PLANTATION
(3)	EXTERNAL DB DUMP
(4)	INTERNAL DB DUMP
(5)	WORKING EDGE
(6)	MINE BOUNDARY
(7)	SAFETY ZONE 70MTY
(8)	
(9)	
(10)	
(11)	

SOUTH EASTERN COAL FIELDS Ltd.
 GEVRA OPEN CAST PROJECT
 GEVRA AREA
 SAFETY ZONE 70MTY & EXISTING PLAN
 PLAN NO. SECL/GVR/SUR/2023/ DT .09.2023
 SCALE:- 1:10000
 CERTIFIED THAT THE PLAN IS CORRECT AND BROUGHT UP TO DATE

GENERAL MANAGER GEVRA PROJECT ENVIRONMENT OFFICER GEVRA AREA COLLIERYMANAGER GEVRA PROJECT COLLIERY SURVEYOR GEVRA PROJECT

STATEMENT SHOWING DETAILS OF PLANTATION OF GEVRA PROJECT

YEAR	PLANTATION DONE ON				Total Plantation done (in nos)	CPT (1.5mx0 .9mx0.7 5m) (in Rmtrs)	GRAS S BED (Nos.)	Area/ Ha.	Location
	On Plain area (nos)	On intern al dumps (nos)	On External dumps (nos)	Total Plantation on dumps (nos).					
1	2	3	4	5=(3+4)	6=(2+3+4)	7	8	9	
1986	236000	0	0	0	236000	0	0	74.3	1. MGR Loop 2. Roadside 3. Inside colony 4. Gevra- Kusmunda Road 5. Distributed to employees
1987	245750	0	46000	46000	291750	0	0	82.93	1. Ext. OB Dump No. 1 near MGR 2. Around Magazine 3. Colony Road 4. Inside colony
1988	419500	0	0	0	419500	0	0	93.22	1. Near E&M workshop & Dy GM Office 2. Near CHP 3. Road side at Gevra 4. Road side at VTC/CETI 5. Gevra - Kusmunda Road 6. Bareli village 7. Near Magazine 8. Colony
1989	454000	0	0	0	454000	0	0	100.8 8	1. Gevra - Kusmunda Road 2. Near Bareli Village 3. Near CETI 4. Gevra Colony 5. Near CHP Bunker 6. SILO Road 7. Vacant space in colony 8. Near Magazine
1990	372883	0	0	0	372883		0	82.86	1. Near Magazine, Ganganagar 2. Laripara plot 3. Old Dipka Barrier (Planted by Dipka project at Dipka unit) 4. Vijaynagar village 5. Near Conveyor Belt - CHP 6. Near Hospital 7. Roadside 8. Boathside old Barrier (Planted by Dipka project at Dipka unit) 9. Boathside old Barrier (Planted by Dipka project at Dipka unit) 10. Conveyor Belt - Latipara 11. Mine boundry near Bareli 12. Inside Colony
1991	360000	0	0	0	360000	0	0	80	1. Bareli Bhata Village (A) 2. Bareli Bhata Village (B) 3. Helipade side

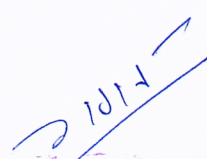
									4. D Type quarters 5. Nehru nagar (Planted by Dipka project at Dipka unit) 6. CEWS 7. Guest Houses 8. CETI 9. Dipka - Pali Road (Planted by Dipka project) 10. Kusmunda - Gevra Road
1992	64900	0	0	0	64900	0	0	14.42	1. Gevra Township 2. Railway Sising 3. Gevra Mine 4. Near Bareli Pondi Bhata Village
1993	87230	0	26970	26970	114200	0	0	27	1. Shakti Nagar Colony 2. Dipka project colony (Planted by Dipka project at Dipka unit) 3. Dipka Ext. Dump no. 1 (Planted by Dipka project at Dipka unit) 4. NCH Colony 5. CEWS 6. Dipka MTK office (Planted by Dipka project at Dipka unit) 7. Gevra Ext. Dump no. 2 8. Gevra Railway siding 9. Kusmund Barrier Pond etc.
1994	0	0	0	0	0	0	0	0	
1995	77000	0	0	0	77000	0	0	17.11	1. Gevra - Kusmunda Road 2. Infront of Old GCM Office
1996	68000	0	64000	64000	132000	0	0	29.33	1. Dipka Dump no. 3 (Planted by Dipka project at Dipka unit) 2. Beltikri Dump (Planted by Dipka project at Dipka unit) 3. CGM Office 4. Boundry wall at Dipka (Planted by Dipka project at Dipka unit) 5. Dipka Border line (Planted by Dipka project at Dipka unit) 6. Magazine side
1997	50000	17500	105500	123000	173000	0	0	38.44	1. Dump no. 3 (Planted by Dipka project at Dipka unit) 2. Near Magazine 3. External Dump no. 2,3 & 4 4. External Dump no. 5 5. Internal no.1
1998	42000	52150	31850	84000	126000	0	15000	31.5	1. Internal Dump no.3 (Amrakanan) 2. Internal Dump no.1 3. External Dump no. 2,3 & 4 4. Khusrudih Road & Dump

									slope 5. Near water tank at Gevra project 6. Magazine side
1999	11950	0	65000	65000	76950	3150	18000	19.23	1. External Dump no.2,3 & 4 2. Near Helipad - Gevra 3. External Dump no.3 (Planted by Dipka project at Dipka unit) 4. Near Selting pond (Commercial)
2000	0	0	130000	130000	130000	0	15000	32.5	1.External Dump no. 2,3 & 4 2. External Dump no. 5 3. External Dump 3 (Planted by Dipka project at Dipka unit)
2001	0	0	66000	66000	66000	0	13000	16.5	1. External OB Dump No. 2,3&4 (Top) 2. External OB Dump No. 2,3&4 (Slope)
2002	10000	0	30000	30000	40000	500	4000	16	1. External Dump No 6 2. Back Filling 3. Dump No 6 (Slop)
2003	30000	81000	20000	101000	131000	1270	15000	35	1. Old Dipka Dump No. 3 2. Pragati Nagar 3. Gandhi Nagar 4. Dump No. 1&2
2004	22000	5500	78500	84000	106000	3583	36000	32	1.North side of Dump No. 2,3&4 Near Toe 2. In side Shakti nagar colony 3. Inside Central work shop 4. Shakti nagar Gate to DETP (road side green belt strengthening) 5. Dipka barrier to Gevra Water filter (road side green belt strengthening) 6. Kusmunda road side green belt 7. Dump No 5 8. south side Slope of Dump No. 2,3&4 9. North side Slope of Dump No. 2,3&4 10. Old Internal Dump (East Section) Toe Ince Green belt 11. Dump No. 1 Slope Internal East Section)
2005	76000	0	39500	39500	115500	4800.33	39500	38	1.Dump No.3 Dipka Unit 2. Dump No 2,3&4 North Slope) west side of Helipad 3. Along Kusmunda Road (North side of 2,3,&4 No Dump (2KM X 50 m) 4. Center Park

									(with in MGR) 5. Along Main Road both sides (From CETI to Dipka Barrier in patches) 6. Dump No 2,3& 4 western side Dump 7. Back side of Shakti Nagar Colony
2005	41500	0	0	0	41500	2000	0		
2006	75000	40000	5000	45000	120000	4500	45000	48	
2007	50000	0		0	50000	0	0	20	1. Hydro Seeding of grasses On B/F Dump No 3 & 6
2008	5000	0	20000	20000	25000	0	0	15	1. Near Magazine 2. Near DETP 3. Kusbunda road (in between MGR& railway Line 4. Dipka Barrier to Hardi Bazar road side (Near 3 no. Dump of Dipka Unit)
2009	32500	0	30000	30000	62,500	0	20000	21	1. Near Magazine 2. Kusbunda road (in between MGR& Railway Line) 3. Dipka barrier to Hardi Bazar road side (Near 3 No. Dupm of Dipka Unit) 4. Dump NO. 3 (External)Dipka Unit 5. South side Slope of Ext.Dump No 3 (Dipka Unit)
2010	2500	36500		36500	39,000	0	0	25	1. Dump No. 3 (Internal) 2. South East side Slope of Internal Dump No 3 3. Around DETP,CHP,Feeder Breaker, TA office (Urja Nagar), CTI
2011	0	27500	0	27500	27,500	0	12500	16	1.Dump No. 3 (Internal) 2. South -East side Slope of internal Dump No 3 3. On Plain Area Near Dipka Railway Track
2012	10000	20000	0	20000	30000	0	3125	12	1. Dump No. 6&7 (Internal) 2. On Plain area Behind Urja Nagar C-Type Quarter
2013	5000	0	35000	35000	40000	0	5000	14	1. On External Dump No.6&7 (Top& Slope) 2.On Plain area GOLF Ground (Near Silo)
2014	0	0	20000	20000	20000	0	0	10	1. External OB Dump No 6&7 2. Side Slope of External OB Dump No 6&7
2015	0	0	80000	80000	80000	0	10000	26	1. On External Dump No.6&7 (

									(Top& Slope)
2016	0	0	50000	50000	50000	0	0	20	1. On External Dump No.6&7 (Top& Slope)
2017	0	0	100000	100000	100000	0	5000	30	1. On External Dump No 6&7 (Top & Slope)
2018	6500	0	60000	60000	66500	0	0	0	1. On External Dump 6&7 (Top) 2. on Road side (New Coal transport Road)
2019	62750	0	0	0	62750	0	0	21.1	1. Near Ganga Nagar 2. Plain Area in Between External Dump No 6&7 and Laxman Both Side
2021	31998	52500	0	52500	84498	0	18750	27.79 9	1. Avad Nagar (Magazine Plot). 2. Avad Nagar (Road Side)
2022	48450	0	0	0	48450	0	29613	19.38	1. Bhatara Basahat 2. Magazine side
2023	19415	0	0	0	19415	0	0	7.766	1. Near Shakti Nagar Pond
Total	301782 6	33265 0	1103320	1435970	4453796	19803.3	30448 8		
Planted area (Ha)	689.465	137.6	367.2	504.8	1194.265				

GAP PLANTATION DETAILS			
Year of Gap plantation	Area in Ha.	No. of saplings Planted	Location
2020-21	17	55950	Mangaon Dump, (Laxman Project)
2021-22	2	5000	Shramil Chouk to Dipka Chouk
2022-23	23.69	82915	External Dump 6&7 (slope)
2023-24	43.405	106577	Awad Nagar Behind Kabaristhan, Between NTPC & private rail track, Behind Magazine & Infront of Railway Colony Shakti Nagar


 नोडल ऑफिसर (पर्यावरण/वन)
 Nodal Officer (ENV/Forest)
 SECL/Gevra Area
 एस.ई.सी.एल./गेवरा क्षेत्र