

Report on the Review, Monitoring, and Progress of Eco-Restoration Blocks in Bihar



Green Credit Cell Indian Council of Forestry Research and Education (ICFRE)

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Tour Duration: 20/03/2025 to 27/03/2025

Divisions Covered: Kiamur, Rohtas, Nawada, Gaya and Munger Forest

Division

Monitoring and Progress Report: Bihar State Tour

Table 1: Review and Monitoring of Eco-Restoration Blocks in Green Credit Programme

S.No	Registration No	Entity Name	Division	Net Planned Area (Ha)	Fund Released	Fund Released Date
1.	1345	Bharat Coking Coal Limited	Kaimur	50	1,18,98,968.00	06.02.2025.
2.	244	Indian Oil Corporation Ltd.	Munger	50	60,77,718.00	23.08.2024.
3.	243	Indian Oil Corporation Ltd.	Munger	100	1,16,84,012.00	23.08.2024.
4.	282	Indian Oil Corporation Ltd.	Rohtas	50	1,13,02,462.00	23.08.2024.
5.	312	Indian Oil Corporation Ltd.	Kaimur	100	2,33,31,840.00	23.08.2024.
6.	355	Indian Oil Corporation Ltd.	Nawada	55	1,30,70,485.00	23.08.2024.
7.	1267	Numaligarh Refinery Limited	Nawada	55	1,26,80,038.00	23.08.2024.
8.	319	Indian Oil Corporation Ltd.	Gaya	100	Fund not released	-

Reg No. 1345

Registration No./Fund release date	Division	Range	Entity	Location (Thana/Plot)	Net Area (Ha)	Nearest Road & Distance
1345/ 06.02.2025	Kaimur	Chainpur	BCCL	Thana No-913, Plot No. 205	50	Aasan Koti to Jagdhawa (17 km, including 3 km Kacha Road)

Progress Details:

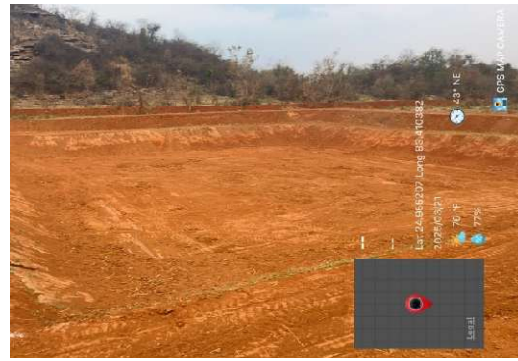
- The site is deemed suitable for plantation activities.
- Survey and demarcation have been completed.
- Advance work is ongoing with 32,000 pits already completed.
- The fencing type used includes trench-facing and stone fencing, which is completed. Site clearing has commenced.
- A signboard has been prepared but requires modification.
- 15 pond structures have been established. Watch and ward arrangements are pending.
- Financial expenditure: Rs. 11,400,000.

Field Visit:

- **Date:** 21/03/2025
- **Forester:** Avinash Kumar (Chainpur)
- **Entity Member:** Harish Pal (Manager, Env, BCCL)
- **Field Evaluation:** Dr. Siddhartha Arya, Sci-B ICFRE-GCC

Key Recommendations:

- Area prone to dryness, additional irrigation and soil moisture conservation techniques should be implemented.
- Sponsored entity's name should be included on the signboard.

**Reg No. 312**

Registration No./Fund release date	Division	Range	Entity	Location (Compartment/Plot)	Net Area (Ha)	Nearest Road & Distance
312/ 23.08.2024	Kaimur	Bhabua	IOCL	Compartment No. Thana no. 932, Plot Nos. 4 and 65	100	Garkey to Khalian Road (6 km, including Kacha Road)

Progress Details:

- Site deemed suitable for plantation. Survey, demarcation, and site clearing completed.
- Advance work ongoing with 60,000 pits completed.
- French fencing and stone fencing installed.
- Nursery creation and sapling procurement pending.
- 30 new pond structures completed.
- Financial expenditure: Rs. 23,331,840.

Field Visit:

- **Date:** 22/02/2025
- **Forester:** Manoj Kumar (Range Officer, Bhabhua)
- **Entity Member:** Safalya Mishra (Senior Manager, AERSD, Patna) IOCL
- **Field Evaluation:** Dr. Siddhartha Arya, Sci-B ICFRE-GCC
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Key Recommendations:

- Additional irrigation measures to support plantation in this drought-prone area.
- Sponsored entity's name should be included on the signboard.



Reg No. 282

Registration No./Fund release date	Division	Range	Entity	Location (Compartment)	Net Area (Ha)	Nearest Road & Distance
282/ 23.08.2024	Rohtas	Rohtas Beat (Parcha)	IOCL	Compartment Nos. 635 and 636 Plot no. 50p, 51,52,53,54,56	50	Unpaved road (6 km from road head)

Progress Details:

- Site deemed suitable for plantation but has rocky terrain.
- Survey and demarcation completed. Site clearing done.
- 30,000 pits completed. Fencing type done
- 14 pond structures established; one under construction.
- Financial expenditure: Rs. 10,900,000.

Field Visit:

- **Date:** 23/03/2025
- **Forester:** Hem Chand Mishra (Range Officer, Rohtas)

- **Entity Member:** Safalya Mishra (Senior Manager, AERSD, Patna), IOCL
- **Field Evaluation:** Dr. Siddhartha Arya, Sci-B ICFRE-GCC

Key Recommendations:

- Clearing of agricultural encroachments and temporary hut like structure in the area need to be done and the report must be send to administrator for information.
- Additional irrigation measures for plantation growth in drought-prone and rocky terrain.
- Sponsored entity's name should be included on the signboard.



Reg No. 319

Registration No./Fund release date	Division	Range	Entity	Location	Net Area (Ha)	Nearest Road & Distance
319/ N/A	Gaya	Barachdti	IOCL	Pachratan	100	Amant Masuneda Road

Progress Details:

- Suitable for plantation but no advance work completed due to pending payments.
- Canopy density: 0.10. Evidence of gully erosion. Local authorities committed to addressing the erosion.

Field Visit:

- **Date:** 24/03/2025
- **Forester:** C.S. B.K. Sinha (ACF, Barachetti)
- **Entity Member:** Avantika Garg (Manager, IOCL)
- **Field Evaluation:** Dr. Siddhartha Arya, Sci-B ICFRE-GCC

Key Recommendations:

- Erosion related matters need to be addressed.
- Ensure that payments are cleared for project progress.



Reg No. 355

Registration No./Fund release date	Division	Range	Entity	Location	Net Area (Hectares)	Nearest Road & Distance
355/ 23.08.2024	Nawada	Rajauli	IOCL	Thano no. 173, Plot no. 48, 50	55	Hardiya Souter-A Gate Mahu Tada

Progress Details:

- Site suitable for plantation, with site clearing completed and 300 pits done.
- Trench fencing 60% done and stone reinforcement not completed.
- 15 pond structures planned; 11 completed.
- Temporary settlements and grazing observed.
- Financial expenditure: Rs. 6638980.

Field Visit:

- **Date: 25/03/2025**
- **Forester: Manoj Kumar (Range Officer, Rofauti)**
- **Entity Member: Avantika Garg (Manager, IOCL)**
- **Field Evaluation: Dr. Siddhartha Arya, Sci-B ICFRE-GCC**

Key Recommendations:

- In two places in between the site, temporary mud huts and agricultural land was found the site needs to be clear from all types of encroachments and the report must be send to administrator for information.
- The kml file and polygon needs to be revised as the work is little bit deviated from uploaded kml hence the fencing and pits needs to be prepared on the same basis.
- Complete fencing must be installed, protective measures against grazing animals should be implemented, and proper site security must be ensured.
- Sponsored entity's name should be included on the signboard.



Reg No. 1267

Registration No./Fund release date	Division	Range	Entity	Location	Net Area (Ha)	Nearest Road & Distance
1267/ 23.08.2024	Nawada	Rajauli	Numaligarh Refinery Limited	Thana No. 284, Plot 12 to 19	55	Karigaon Road (15 km from road head)

Progress Details:

- The site is suitable for plantation, and survey and demarcation have been completed.
- Site clearing is in progress, with 50% of the work done.
- Pitting operations have commenced, with 4,000 pits completed.
- The fencing type used includes trench fencing, and stone fencing reinforcement is pending.
- The signboard is ready for installation.
- Fifteen pond structures are planned, with six already completed.
- Additional soil moisture conservation structures need to be developed.
- Observations suggest the need for additional fire protection measures.
- Financial expenditure: Rs. 4,007,000.

Field Visit:

- **Date:** 24/03/2025
- **Forester:** Manoj Kumar, R.F.O Rajauli-Sada
- **Entity Member Present:** K. Shrinivas (DGM)
- **Field Evaluation Conducted By:** Dr. Siddhartha Arya, Sci-B ICFRE-GCC,

Key Recommendations:

- Completion of planned ponds and reinforcement of fencing structures needs to be done.
- Special attention must be given to fire protection measures and ensuring the sustainability of the plantation, especially on hilltop areas.
- Sponsored entity's name should be included on the signboard.
- Species wise proposed no. of seedlings need to be updated.
- Sponsored entity's name should be included on the signboard.

**Reg No. 244**

Registration No./Fund release date	Division	Range	Entity	Location	Net Area (Ha)	Nearest Road & Distance
244/ 23.08.2024	Munger	Malaypur	IOCL	Thano-13, Plot 1, 10, 13, 16	50	Malaypur (50 meters)

Progress Details:

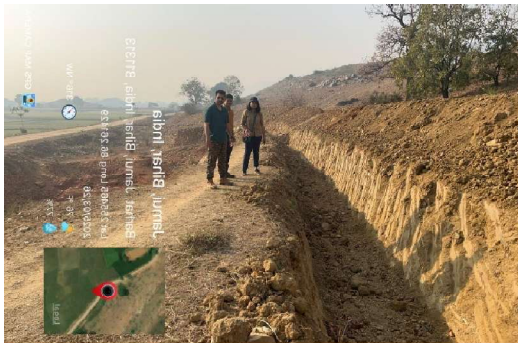
- 4,000 pits, trench fencing (220 chains RMT) done.
- Site clearing and survey/demarcation complete.
- Signboard ready but requires modification.
- Financial expenditure: Rs. 200,000.

Field Visit:

- **Date:** 26/03/2025
- **Forester:** Sushant Kumar (ROF)
- **Entity Member:** Avantika Garg (Manager, IOCL)
- **Field Evaluation:** Dr. Siddhartha Arya (Scientist-B)

Key Recommendations:

- Urgent need to expedite progress for timely plantation activity before monsoon.
- The site where work is ongoing, as per the forest department map, does not match the uploaded version. One part of the site aligns with the .kml data, while the rest is located near non-forestry land. This creates a discontinuous patch between the two workable areas. The discrepancy has been reported to the Divisional Forest Officer (DFO) and Range Forest Officer (RFO), along with a request for clarification on guidelines for a single polygon.
- The area is semi-arid, hence special measures need to be taken for irrigation.
- Grazing animals were also seen near the site, hence need proper protection for successful establishment of Eco restoration.
- A small cemented base and column encroachment structure were found at the starting point within the area.
- The area is highly prone to fire due to the presence of significant dry litter on the site. Additionally, forest fires have been observed in close proximity, highlighting the urgent need for proactive fire prevention measures to ensure the safety and success of the plantation activities.
- Officials from the entity have requested a detailed survey map, including all site details marked on the map along with the plantation journal, to be made available to the entity.
- Reinforce the trench fencing in proper manner to effectively prevent encroachment.
- The site seems to be a stony.
- The pond, as per the cost estimate, is 15; however, the calculation (money) is for only 5 ponds the concerned officer talked about typing mistake.
- Revisit site with a detailed survey map for better execution.
- Sponsored entity's name should be included on the signboard.



Reg No. 243

Registration No./Fund release date	Division	Range	Entity	Location	Net Area (Hectares)	Nearest Road & Distance
243/ 23.08.2024	Munger	Malaypur	IOCL	Plot 1, 10, 13, 16	100	Barhat (Tilalar) (50 meters)

Progress Details:

- Suitable for Eco restoration; survey and demarcation complete.
- Pitting not carried out yet, fencing initiated (380 chain).
- Site clearing done.
- Financial expenditure: Rs. 400,000.

Field Visit:

- **Date:** 26/03/2025
- **Forester:** Sushant Kumar (ROF)
- **Entity Member:** Avantika Garg (Manager, IOCL)
- **Field Evaluation:** Dr. Siddhartha Arya (Scientist-B)

Key Recommendations:

- Urgent need to expedite progress for timely plantation activity before monsoon.
- The demarcation of the trench for fencing is not as per the .kml file uploaded and cannot be done further as per the .kml file due to already natural generation plantation in some part.
- The site seems to be a stony.
- The pond, as per the cost estimate, is 30; however, the calculation (money) is for only 10 ponds the concerned officer talked about typing mistake.
- Irrigation measures need to be applied for the success of plantation.
- The officer from the entity has requested that the detailed survey map, along with the plantation focus, be made available to the entity.
- Revisit site with a detailed survey map for better execution.
- Sponsored entity's name should be included on the signboard.

