

**GOVERNMENT OF INDIA
MINISTRY OF COAL**

**LOK SABHA
UNSTARRED QUESTION NO. 1400
TO BE ANSWERED ON 04.12.2024**

Greening Initiatives in Coal and Lignite PSUs

1400. SHRI P P CHAUDHARY:

Will the Minister of *Coal* be pleased to state:

- (a) the total area of land reclaimed and afforested by Coal/Lignite PSUs under the Greening Initiatives in Coal & Lignite PSUs;
- (b) the break-up of areas under biological reclamation, avenue plantation and plantation outside mine leaseholds;
- (c) the estimated carbon sink potential created by these greening initiatives and the manner in which it contributes to India's Nationally Determined Contribution (NDC) target;
- (d) whether the Government has set any specific targets for land reclamation and afforestation by Coal/Lignite PSUs for the coming years and if so, the details thereof;
- (e) the innovative techniques being adopted for plantation in coal mines; and
- (f) the measures taken to ensure the long-term sustainability of these reclaimed and afforested areas including plans for their future use and maintenance?

ANSWER

**MINISTER OF COAL AND MINES
(SHRI G. KISHAN REDDY)**

(a) and (b): Coal & Lignite Public Sector Undertakings (PSUs), namely Coal India Limited (CIL), NLC India Limited (NLCIL) and Singareni Collieries Company Limited (SCCL), have biologically reclaimed and afforested about 55312 Hectares (Ha) of land in and around Coal and Lignite mining areas upto FY 2023-24 as given below:

Type of Plantation	Area (in Ha)
Biological Reclamation	37022
Avenue Plantation	14463
Plantation Outside Mine Leaseholds	3827
Total	55312

(c): The estimated carbon sink potential of the greening initiatives is 2.77 million tonnes CO₂ equivalent. The greening initiatives of Coal & Lignite PSUs contribute to India's Nationally

Determined Contribution (NDC) target titled “to create an additional carbon sink of 2.5 to 3 billion tonnes of CO₂ equivalent through additional forest and tree cover by 2030”.

(d): Ministry of Coal has set target for land reclamation and afforestation for Coal/Lignite PSUs under Vision Viksit Bharat for next 5 years as given below:

Financial Year	Target for Land Reclamation and Afforestation (in Ha)
2024-25	2,600
2025-26	2,800
2026-27	3,100
2027-28	3,300
2028-29	3,550
Total	15,350

(e): In addition to traditional methods of plantation, some of the innovative techniques being adopted by Coal & Lignite PSUs are seed ball plantation, Miyawaki planation, High-Tech cultivation, bamboo plantation, and drip irrigation for plantation on overburden dumps, etc.

(f): Measures to ensure the long-term sustainability of reclaimed and afforested areas in Coal & Lignite PSUs focus on scientific reclamation, biodiversity conservation, and socio-economic integration. Initiatives include topsoil management, planting native species, creating wildlife habitats, and monitoring by remote sensing. Afforestation activities are mostly carried out by the State Forest Departments and State Forest Development Corporations in the Coal/Lignite PSUs. Reclaimed areas are repurposed for eco-parks, agroforestry, water sports, pisciculture and renewable energy projects. Afforested areas on non-forest land are also offered as compensatory afforestation (CA) land for forest diversion for coal mining projects.
