

GOVERNMENT OF INDIA
MINISTRY OF COAL

RAJYA SABHA
UNSTARRED QUESTION NO. 2437
TO BE ANSWERED ON 11.08.2025

COAL GASIFICATION PROJECTS

2437. SHRI DEBASHISH SAMANTARAY:

Will the Minister of Coal be pleased to state:

- (a) whether Government plans to promote coal gasification as a clean technology;
- (b) number of such plants proposed and operational;
- (c) estimated reduction in emissions;
- (d) States where pilot projects are being implemented; and
- (e) whether private sector participation encouraged or not?

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

(a): The Government has taken up steps to promote Coal Gasification as a clean coal technology, aligning with its broader mission of 'Make in India' and 'Import substitution' while reducing environmental impact.

(b): The proposed and operational coal gasification plants are as under:

(I) Under a ₹8,500 crore financial incentive scheme of the Government of India, approval of viability gap funding in respect of the following seven projects have been issued:

- (i) Bharat Coal Gasification and Chemicals Limited (Odisha)
- (ii) Coal Gas India Limited (West Bengal)
- (iii) Coal India Limited (Maharashtra)
- (iv) Jindal Steel and Power Limited (Odisha)
- (v) Greta Energy and Metal Private Limited (Maharashtra)
- (vi) New Era Cleantech Solution Private Limited (Maharashtra)
- (vii) New Era Cleantech Solution Private Limited (Maharashtra) - pilot project
- (II) Jindal Steel and Power Limited has an operational coal gasification plant in Angul (Odisha).
- (III) A coal to urea plant through coal gasification has been approved under Talcher Fertilizers Limited at Talcher, Odisha.

(c): No such quantifiable data is available.

(d): State-wise pilot projects (both operational or under implementation) are as under:

1. **Jharkhand -**

- (i) CSIR-CIMFR, Dhanbad: 0.5 TPD Air-Blown Pressurized Fluidized bed gasification (PFBG) Pilot Plant Installed in March 2009.
- (ii) CSIR-CIMFR, Dhanbad: 1.5 TPD Oxygen Enriched Pressurized Fluidized Bed Gasification (PFBG) Pilot Plant Installed in December 2020.
- (iii) Eastern Coalfields Limited (ECL): An R&D pilot project on Underground Coal Gasification (UCG) to establish UCG technology at Kasta (West) Block (ECL)

2. **Haryana -**

- (iv) EIL (R&D) Gurgaon: Fluidized Bed Gasifier.

3. **Telangana -**

- (v) BHEL, R&D Project, Hyderabad: Fluidized Bed Gasifier.

4. **Tamil Nadu -**

- (vi) BHEL, R&D Trichy: Fluidized Bed Gasifier.

5. **Maharashtra -**

- (vii) Thermax, Pune: 1 TPD fluidized bed coal gasification pilot plant, established in 2014.
- (viii) Thermax, Pune: 6 TPD fluidized bed coal gasification pilot plant.

(e): Private sector participation is actively encouraged in the development of coal gasification projects. The following steps have been taken to encourage private sector participation -

- (i) Financial support is extended to both private and government companies under Category II and Category III of the Financial Incentive Scheme launched by the Ministry of Coal.
- (ii) A new sub-sector, "Production of Syngas leading to coal gasification," has been created under the Non-Regulated Sector (NRS) linkage auctions policy to support the coal gasification initiative.
- (iii) The Government has allowed coal supply to gasification projects under the NRS auction with a floor price at the Notified Price of the regulated sector, for the projects commissioning within the next seven years.
- (iv) 50% rebate in the revenue share for coal used in gasification has been introduced in commercial coal block auctions, provided that at least 10% of the total coal production is used for gasification purposes.
- (v) A framework has been established for granting waivers from registration for Transfer of Technology (ToT) from land-border-sharing countries on a case-by-case basis.
