

**GOVERNMENT OF INDIA
MINISTRY OF COAL**

**LOK SABHA
UNSTARRED QUESTION NO. 191
TO BE ANSWERED ON 18.07.2018**

Efficiency of Coal Mines

†191. SHRI ARVIND SAWANT:
SHRI KRUPAL BALAJI TUMANE:

Will the Minister of COAL be pleased to state:

- (a) whether the Government has taken any steps to increase efficiency of coal mines in the country;
- (b) if so, the details thereof;
- (c) whether any exchange of mines have been carried out to ensure supply of coal from mines located near power plants;
- (d) if so, the details thereof along with the savings made in this regard;
- (e) whether Coal India Limited proposes to increase this saving by carrying out more such exchanges; and
- (f) if so, the details thereof?

ANSWER

MINISTER OF RAILWAYS, COAL, FINANCE AND CORPORATE AFFAIRS (SHRI PIYUSH GOYAL)

(a)&(b): Government has taken the following steps to increase efficiency in coal mines in the country:

(i) Underground mines: Underground (UG) mines are planned to adopt latest mechanised methods wherever geo-mining conditions are favourable. Such methods include mining with Continuous Miners (CM) and Powered Support Longwall (PSLW) mining. These methods are much more productive and efficient than manual or semi-mechanised methods of UG mining. At present 13 continuous miners are deployed in the following underground mines of CIL:

CM Deployed			
Subsidiary Co.	Name of the mine	No. of CMs	CM Capacity (Mtv)
ECL	Jhanjira	3	1.31
	Sarpi (0.46)	1	0.46
SECL	Khairaha	1	0.465
	Churcha RO	2	1.00
	Haldibari	1	0.42
	Kapildhara	1	0.43
	Pinoura /Vindhya	1	0.40
	Rani – Atari	1	0.18
	Sheetal Dhara – Kurja /	1	0.42
	Vijay West	1	0.42
Total CIL	11 Mines	13	5.505

Two PSLW sets have also been deployed at present in the following underground mines of CIL:

Subsidiary Co.	Name of the mine	No. of PSLW Sets	Capacity (Mty)
ECL	Jhanjra	1	1.70
BCCL	Moonidih XVI	1	0.70
Total CIL	2 Mines	2 Sets	2.4

(ii) Opencast Mines: Various steps have been taken to increase the operational efficiency of the opencast (OC) coal mines such as

- Development of higher capacity mines to take advantage of economy scale e.g. Gevra (70 Mty), Magadh (51 Mty), Sairmal (40 Mty) etc.
- Introduction of state of the art technology to improve operational efficiency, such as high capacity Heavy Earth Moving Machinery (HEMM) (like 42 cum shovel with 240 T Rear Dumper, surface miners, draglines, Operator Independent Truck Dispatch System (OITDS), in-pit crushing & conveying etc.). Other technologies like High Angle Conveyor and Pipe conveyor are proposed for coal transportation which will reduce the operational cost of the mine. For survey, latest technology like Terrestrial Laser Scanner (TLS) and drones are used for survey in coal mines. For slope stability, slope stability radars are used.
- Use of Enterprise Resource Planning (ERP) and other IT-enabled applications to manage & monitor its human, physical and financial resources to boost the operating efficiency.

(c) to (f): At present there is no such policy for exchange of mines. However, with a view to optimize transportation cost, an Inter-Ministerial Task Force (IMTF) was constituted by Ministry of Coal (MOC) for a comprehensive review of existing coal sources and also feasibility for rationalization of these sources. The IMTF recommended rationalization of existing sources on case to case basis for 19 TPPs. Rationalization of sources of all these 19 TPPs have been implemented by CIL/ Singareni Collieries Company Limited (SCCL). This has resulted in rationalization of sources of 24.238 MT coal with an annual savings in transportation cost to the tune of Rs. 1013 Crore. In addition to these, an agreement was signed between GSECL and NTPC for swapping of 1.0 MT of domestic coal, through which there would be an annual saving of Rs. 460 Crore (approx.) as estimated by the power plants. Ministry of Coal has issued the Policy for Linkage Rationalization for Independent Power Producers (IPPs) on 15.05.2018 to CIL/ SCCL to take immediate necessary action to implement the policy.
