

**GOVERNMENT OF INDIA
COAL
LOK SABHA**

UNSTARRED QUESTION NO:2191
ANSWERED ON:02.12.2009
MODERNISATION OF MINING OPERATIONS
Deo Shri Kalikesh Narayan Singh

Will the Minister of COAL be pleased to state:

- (a) whether the Government proposes to modernize mining operations in coalfields including Mahanadi Coal Fields Ltd (MCL); and
(b) if so, the steps taken or proposed to be taken by the Government in this regard?

Answer

MINISTER OF STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF COAL & MINISTER OF STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF STATISTICS AND PROGRAMME IMPLEMENTATION (SHRI SRIPRAKASH JAISWAL)

(a): Yes, Sir.

(b): The details of up-gradation in underground and opencast mines of CIL including MCL are briefly given below:

i) Underground mines:

The thrust areas for the future will be the Bord and Pillar (B&P) method with higher degree of mechanization like continuous miner technology in conjunction with mechanized drilling and roof bolting system. However, use of long wall technology, wherever, geomining conditions permit, will be continued as a mass production technology. So there will be a judicious mix of B&P with continuous miner, B&P with Side Discharge Loader (SDL)/ Load Haul Dumper (LHD) combination, mechanized long-wall and special mining methods.

The provision of underground man riding system, full face shaft sinking and incline drivage machines are proposed for new mines so as to start production much earlier than typical existing system besides also being cost effective.

ii) Open Cast Mines:

The up-gradation of equipment size matching with bench height and stripping ratio are being introduced. For Dumpers, up-gradation from 35/50 Tonne to 60 Tonne, 85 Tonne to 100 Tonne, 120 Tonne to 150 Tonne as well higher sizes are being introduced.

Use of high capacity hydraulic shovels (10 to 25 Cubic Metres (cum.)) will find increased acceptability. High capacity dozers of sizes upto 850 Horse Power (HP) will complement the higher capacity excavators.

In addition to the above, following steps have been taken/are being proposed to be taken for modernization/up-gradation of its mines in Mahanadi Coalfields Limited.

- a) Recently four numbers of Surface Miners have been procured and deployed.
- b) To enhance overburden removal, higher capacity Heavy Earth Moving Machinery (HEMMs) are being procured
- c) For fast evacuation of coal, eight nos. of Rapid Loading Systems have been planned and action initiated.
- d) For beneficiation of coal, four nos. of coal washeries of 10 million tones per year (mty) capacity each, shall be setup.