

**GOVERNMENT OF INDIA
COAL
LOK SABHA**

UNSTARRED QUESTION NO:551
ANSWERED ON:26.02.2015
PRODUCTIVITY NORMS OF HEMM
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Will the Minister of COAL be pleased to state:

- (a) whether a committee was set up in 2013 to review the productivity norms of Heavy Earth Moving Machinery (HEMM);
- (b) if so, the details thereof including the terms of reference and findings of the committee;
- (c) whether it is a fact that different committees were set up at different points of time to examine the issue of productivity of HEMM;
- (d) if so, the details thereof along with the key findings of those committees, committee-wise; and
- (e) the action taken by the Government based on the recommendations and findings of those committees, committee-wise?

Answer

MINISTER OF STATE (INDEPENDENT CHARGE) IN THE MINISTRY OF COAL, POWER AND NEW AND RENEWABLEE ENERGY (SHRI PIYUSH GOYAL)

(a)&(b): As per the information furnished by Coal India Ltd., no committee was set up in 2013 to review the productivity norms of Heavy Earth Moving Machinery (HEMM). However, a committee was set up in 2013 to review the existing Availability and Utilization Norms of HEMM. The Terms of reference of this committee is "Review the existing Availability and Utilization Norms of HEMM". Committee has not yet submitted its report.

(c)&(d): Earlier different committees were set up at different points of time to examine the issue of productivity of HEMM. The key findings of those committees (committee-wise) are as under:

i. 1975: The review Committee constituted by CIL to update the report dated June 1970 of the committee which examined the percentage availability of HEM Equipment gave the typical calculations of Standard Hourly Output of Draglines, Shovels and Dumpers. Committee had submitted its report in May 1976.

ii. CMPDI further revised the Standard utilization percentage and productivity of Draglines, Electric Rope Shovels and Hydraulic Shovels and dumpers in 1980 which became necessary with introduction of bigger machines. This was on the basis of the report of the committee set up for this purpose. The Committee had submitted its report in 1980. Subsequently in December, 1986 CMPDI further revised productivity norms of HEMM.

iii. 1999: A committee for revision of norms for availability and utilization of HEMM by coal companies was constituted by Ministry of Coal on 21.5.1999 under the chairmanship of Addl. Secretary, Ministry of Coal. The Committee submitted its report in May 2002. It recommended that:

(a) Revision of norms will be applicable for planning of new opencast projects

(b) All new opencast projects will be planned on the basis of 330 working days per year.

(c) Existing annual productivity norms of all HEMM will be enhanced by 10% for planning new opencast projects. This will take care of increase in working days from 300 to 330 days. However, norms would need to be improved further because of technological changes that have taken place since 1980.

iv. 2003: The Coal India Ltd. committee on revision of norms of Productivity of HEMM recommended in April 2013 the increase in productivity of mining equipment for the new opencast mines of the following order:

- (a) Rear Dumper : 10% - 17%
- (b) Rope Shovels : 10% -12%
- (c) Hydraulic Shovels : 10%
- (d) Draglines : 15-17%

(e) The following action were taken by the Coal India Ltd. based on the recommendations and findings of those committees, committee-wise:

i) Committee in 1976 gave the typical calculations of Standard Hourly Output of Draglines, Shovels and Dumpers which were adopted in planning the project reports of opencast mines.

ii) 1980: Revised Standard utilization percentage and productivity of Draglines, Electric Rope Shovels and Hydraulic Shovels implemented in planning the project reports of opencast mines.

iii) 1999: On the basis of the recommendations a committee was constituted in 2003.

iv) 2003: Revised productivity norms implemented in planning the new opencast mines