

**GOVERNMENT OF INDIA  
STEEL  
LOK SABHA**

UNSTARRED QUESTION NO:2544  
ANSWERED ON:25.11.2010  
ADOPTION OF ENERGY EFFICIENT TECHNOLOGIES  
Deora Shri Milind Murlu

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

- (a) whether the steel production generates large amount of waste i.e. solid waste, green house gas and other pollutants;
- (b) if so, the details thereof;
- (c) whether there are any barriers in adopting energy-efficient and environment friendly technologies;
- (d) if so, the details thereof;
- (e) whether the Government has initiated project for increasing end use efficiency of the steel re-rolling mills and reducing associated emissions of green house gases;
- (f) if so, the details thereof; and
- (g) if not, the reasons therefor?

**Answer**

MINISTER OF THE STATE IN THE MINISTRY OF STEEL (SHRI A. SAI PRATHAP)

(a) Yes, Madam.

(b) As per the information available, the approximate quantum of waste generation in steel companies like Steel Authority of India Limited (SAIL), Rashtriya Ispat Nigam Limited (RINL) & Tata Steel Ltd. are as under:-

S. No.	Name of Company	Solid Waste Generated (tonnes/tonne of crude steel)	Green House Gas Emission (tonnes of crude CO2/tonne of crude steel)	PM(Dust) Stack Discharge (Kg/tonne of crude steel)	Treated Effluent Discharge (M3 /tonne of crude steel)
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1. SAIL 0.656 2.92 1.55 2.53

2. RINL 0.680 2.54 0.71 0.71

3. Tata Steel 0.616 2.40 0.86 2.1

(c)&(d): There are some impediments in fully adopting energy-efficient and environment friendly technologies in Indian steel plants:-

(i). Technological obsolescence and non-availability of suitable cost competitive technology.

(ii). Constraints in quality of Indian raw material e.g. high alumina content including high alumina-silica ratio in iron ore, high ash content in coal etc.

(iii). Space constraints for retrofitting/upgrading existing energy efficient and pollution control technologies/equipments.

(e)to(g): A project entitled "Removal of Barriers to Energy Efficiency Improvement in the Steel Re-rolling Mill Sector in India" has been launched jointly by United Nations Development Programme (UNDP) and Government of India. The estimated contribution of UNDP is US \$ 6.75 million and that of Government of India is US \$ 7.28 million. The project seeks to reduce Green House Gas Emission by providing technical assistance to small and medium size steel re-rolling mills in India to enable them to adopt more energy efficient and environment friendly technologies.