

**GOVERNMENT OF INDIA
STEEL
LOK SABHA**

UNSTARRED QUESTION NO:3029
ANSWERED ON:12.08.2010
MAKING OF STEEL RUST FREE
Ray Shri Rudramadhab

Will the Minister of STEEL be pleased to state:

- (a) whether the cigarette butts can make steel rust free;
- (b) if so, the facts thereof;
- (c) whether the Government plans to conduct further study/research in this regard;
- (d) if so, the details thereof; and
- (e) if not, the reasons therefor?

Answer

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

(a)&(b): As per the article published in the American Chemical Society's bi-weekly journal Industrial & Engineering Chemistry Research, the scientist in China identified nine chemicals after immersing cigarette butts in water. They applied the extracts to N80, a type of steel used in oil pipes, and found that they protected the steel from rusting. The study revealed that the chemicals, including nicotine are responsible for this anti-corrosion effect.

(c)to(e): No, Madam. This is the first time that the research finding have been published on the subject. Similar/related information is not yet available in technical literature. The findings are the outcome of very preliminary laboratory research work and their utility is yet to be proven or demonstrated to pursue any further work on the subject.