

**GOVERNMENT OF INDIA
RAILWAYS
LOK SABHA**

STARRED QUESTION NO:431
ANSWERED ON:09.12.2010
GREEN INITIATIVES IN RAILWAYS
Das Shri Khagen;Sugumar Shri K.

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the Railways propose to initiate a slew of "green initiatives" including introduction of new generation electric and diesel locomotives, use of bio-diesel, etc.;
- (b) if so, the details thereof;
- (c) whether such locomotives are likely to be manufactured indigenously;
- (d) if so, the details thereof; and
- (e) the benefits expected to be achieved through these green initiatives?

Answer

MINISTER OF RAILWAYS (KUMARI MAMATA BANERJEE)

(a) to (e): A Statement is laid on the Table of the Sabha.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 431 BY SHRI KHAGEN DAS AND SHRI SUGUMAR K. TO BE ANSWERED IN LOK SABHA ON 09.12.2010 REGARDING GREEN INITIATIVES IN RAILWAYS.

(a) & (b) Yes, Madam. Initiatives taken by Indian Railways (IR) to contribute to the cause of arresting global warming include employing electric locomotives and multiple units (EMUs) having regenerative braking feature, exploring scope for bio-diesel and compressed natural gas (CNG) in diesel locomotives and multiple units (DMUs), exploiting solar and wind energy, replacement of energy intensive incandescent lamps with compact fluorescent lamps (CFLs), energy conservation measures by automation of pumps, segregation of essential and non-essential loads and use of energy efficient metal halide and T-5 fluorescent lights.

(c) & (d) New generation 6000 horse power (HP) electric locomotives and EMUs with regenerative braking feature are being manufactured at Chittaranjan Locomotive Works (CLW) & Integral Coach Factory (ICF) respectively. Further, new facility to manufacture high horse power energy efficient electric locomotives has also been planned.

(e) The main benefit will be IRs contribution in the overall effort to arrest global warming and climate change. Other associated benefits are reduction in energy and fuel consumption and earning of carbon credits due to reduction in carbon dioxide (CO₂) emission.