

THE MINISTER OF RAILWAYS (SHRI PIYUSH GOYAL): (a) No, Sir. After success of the prototype Train-18 which is running as Vande Bharat Express, ICF intends to manufacture more train-sets and is taking action for procurement of material.

(b) Vigilance Department undertakes routine preventive checks of various files including those pertaining to various contracts. In this regard, these files are also being scrutinized.

#### **Promotion of rail tourism**

873. SHRI NARAYAN LAL PANCHARIYA: Will the Minister of RAILWAYS be pleased to state:

- (a) whether Government has taken any steps to promote rail tourism;
  - (b) if so, the details thereof and if not, the reasons therefor;
  - (c) whether Government has identified any sector for promotion of rail tourism;
  - (d) if so, the details thereof and if not, the reasons therefor;
  - (e) whether any sector in Rajasthan has been identified for promotion of rail tourism;
- and
- (f) if so, the details thereof and if not, the reasons therefor?

THE MINISTER OF RAILWAYS (SHRI PIYUSH GOYAL): (a) to (d) Indian Railways, in addition to regular passenger trains across its network with many of them also catering to tourist destinations, in association with the Indian Railway Catering and Tourism Corporation (IRCTC) and selected State Tourism Development Corporations, operates special tourist trains like Luxury Tourist Trains, Buddhist special trains, Bharat Darshan trains, Aastha Circuits trains, State Special Tourists trains, charter trains etc. for promotion of tourism in the country.

(e) and (f) Luxury Tourist Train Palace on Wheels, operated in association with Rajasthan Tourism Development Corporation, covers most of the important tourist destinations of Rajasthan in its itinerary promoting rail tourism in Rajasthan. In addition some of the itineraries of Maharajas' Express and Deccan Odyssey luxury tourist trains also cover important tourist destinations of Rajasthan.

#### **Use of environment friendly technologies in railways**

874. SHRI SUSHIL KUMAR GUPTA: Will the Minister of RAILWAYS be pleased to state:

- (a) whether it is a fact that Railways are one of the biggest consumers of energy in the country;

(b) if so, the steps being taken by Railways for making the best use of environment friendly technologies to enhance the network wisely; and

(c) if not, the reasons therefor?

THE MINISTER OF RAILWAYS (SHRI PIYUSH GOYAL): (a) Yes, Sir. Indian Railways uses approximately 56 Million Units of Electrical Energy per day.

(b) Indian Railways (IR) is taking the following steps for giving a thrust for use of environmental friendly technologies:

- (i) Railway Electrification of tracks - IR has decided to electrify 100% of its Broad Gauge Rail routes in mission mode, as a green mode of transport.
- (ii) Use of renewable energy - IR has planned to source about 1000 Mega Watt (MW) Solar Power and 200 MW of Wind Power.
- (iii) Various Energy efficiency measures taken to reduce carbon footprints, which include the following:-
  - Use of energy efficient 3-Phase technology with regenerative features for electric locomotives, Mainline Electrical Multiple Units (MEMUs), Electrical Multiple Units (EMU), trains sets for better energy efficiency.
  - Introduction of Head On Generation (HOG) system in trains to reduce diesel fuel consumption in power car.
  - Provision of energy efficient Light Emitting Diode (LED) lighting in all Railway installations including Railway stations, service buildings. Residential quarters & coaches for reduction in electricity consumption.
  - Regular energy audits at consumption points - Energy Efficiency studies of six (6) Production Units (PUs) and four (4) Workshops were conducted and upto 15% energy efficiency improvement achieved. This included activities like identification of significant energy saving opportunities, one day training program, identification of potential technology suppliers who can offer energy saving technologies to the units etc.
  - Emphasis on use of 5 Star rated electrical equipments.
  - Regular training of Loco pilots for use of coasting, regenerative braking features and switching off blowers of electric locos in case yard detention is more than 50 minutes. Similarly, diesel locos are also shut

down if expected detention is more than 30 minutes and thereby resulting in reduction of Green House Gases (GHG) emissions.

- Trailing locomotive of multi units (MU) hauling empty freight trains are switched off to save energy.
- Energy consumption on electric locomotives is regularly monitored through microprocessor based energy meters provided in all the electric locomotives and benchmarking is done based on average energy consumption.
- Monitoring the fuel consumption with respect to trip ration of diesel locomotive driver.
- Auxiliary Power Unit (APU) has been provided in 986 diesel locomotives to reduce fuel consumption when locomotive is idle.
- Monitoring of idling of diesel locomotives is being done through remote monitoring and management of Locomotives and trains (called as REMMLOT). 2606 locomotives at present are equipped with REMMLOT.
- Use of 5% bio-diesel in traction fuel-Blending of bio-diesel with HSD, to the extent of 5%, to save HSD.
- 20% Compressed Natural Gas (CNG) substitution in DEMUs -CNG usage emits less GHG than liquid fuels. Indian Railways have the distinction of being the only railway in the world to be using CNG run power cars for passenger transportation. IR has also started conversion of DEMU Driving Power Car (DPC) into dual fuel mode DEMU/DPC with CNG. 25 number of DPCs have been converted and are under operation.

(c) Does not arise.

**Difficulties in implementation of railway  
schemes of Konkan Railway**

†875. SHRI NARAYAN RANE: Will the Minister of RAILWAYS be pleased to state:

(a) whether it is a fact that Government is facing many difficulties in implementation of various Railway schemes of Konkan Railway;

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†Original notice of the question was received in Hindi.