

**GOVERNMENT OF INDIA  
RAILWAYS  
LOK SABHA**

STARRED QUESTION NO:738  
ANSWERED ON:16.05.2002  
EXPORT OF RAIL ENGINES  
IQBAL AHMED SARADGI;RAMPAL SINGH

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

- (a) whether the Railways have developed a 4000-hp engine built in India under license from M/s General Motors;
- (b) if so, the main features thereof;
- (c) the cost of the present engine that has been developed in India;
- (d) whether the Government propose to export powerful rail engines manufactured with G.M. technology;
- (e) if so, the details thereof; and
- (f) the foreign exchequer likely to be earned therefrom? ANSWER

**Answer**

MINISTER OF RAILWAYS (SHRI NITISH KUMAR)

(a) to (f) : A statement is laid on the Table of the Sabha.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (f) OF STARRED QUESTION NO. 738 BY S/SHRI IQBAL AHMED SARADGI & RAMPAL SINGH TO BE ANSWERED IN LOK SABHA ON 16.5.2002 REGARDING EXPORT OF RAIL ENGINES.

(a) Railways have manufactured 4000 hp diesel locomotives under transfer of technology from M/s General Motors, (GM) USA.

(b) Main features of the new technology locomotives are:

- 3 phase, alternate Current (AC) traction.
- Pulling ability (tractive effort) of freight locomotives at 53 tonnes is 73.7% higher than conventional locomotives.
- Passenger locomotives have a speed potential of 160 kmph against 120 kmph or conventional locomotives.
- Microprocessor control with self-diagnostic feature.
- Computer controlled brakes.
- Radar based super series wheel creep control system to eliminate wheel slips and damage to rail track.
- Extended dynamic brake with self-load testing features.
- Reduced exhaust emissions below international norms.
- Locomotives can work continuously for 92 days without any maintenance as against 7-10 days for conventional locomotives, thus
- Reduced rate of consumption of fuel and lubricating oil.
- Reduced maintenance costs.

(c) As per the Budget Estimate 2002-03, the estimated cost is Rs. 12.75 crores per locomotive.

(d) Yes, sir.

(e) Order for export of locomotives in the international market is processed through competitive bidding by M/s IRCON International Ltd., (IRCON)/ M/s RAIL INDIA TECHNICAL & ECONOMIC SERVICES (RITES) and is an ongoing process. Export of locomotives built to GM technology is being explored.

(f) This will depend on the quantum of exports that railways are able to secure, hence it is not possible to give an estimate, at present.