

**GOVERNMENT OF INDIA
RAILWAYS
LOK SABHA**

UNSTARRED QUESTION NO:7138
ANSWERED ON:12.05.2005
PROJECTS OF CHITTARANJAN LOCOMOTIVES WORKS
Adsul Shri Anandrao Vithoba

Will the Minister of RAILWAYS be pleased to state:

- (a) whether the Chittaranjan Locomotive Works (CLW) has identified three strategic projects to develop better and safer fleet for the Indian Railways;
- (b) if so, the details thereof; and
- (c) the number of locos manufactured by CLW during each of the last three years and proposed for the year 2005-06?

Answer

MINISTER OF STATE IN THE MINISTRY OF RAILWAYS (SHRI R. VELU)

(a) Yes, Sir.

(b) The 3 Projects identified and duly worked upon by Chittaranjan Locomotive Works (CLW) are:-

1. Migration to Insulated Gate Bipolar Transistor (IGBT) Drive. This project aims at switching over to IGBT switching elements from the existing Gate Turn-off (GTO) Thyristors. This is necessitated in view of foreseeing obsolescence of GTOs in favour of IGBTs.
2. Migration to Standard Vehicle Control Hardware. This project aims to migrate from proprietary vehicle control units presently used in three phase electric locomotives to International Electro technical Commission (IEC)-61375 standardised train control network. The project envisages the use of industrially standardised hardware suitable for traction application.
3. Migrating to IEC -61131 Standardised Programming Platform. The project envisages to port vehicle software of existing 3 phase electric locomotives, which is based on proprietary software platform to a platform conforming to IEC - 61131 standard.

(c) The number of locos manufactured by CLW during each of the last three years are :

Year	Locos
2002-03	69
2003-04	86
2004-05	90
2005-06	128 Proposed