# GOVERNMENT OF INDIA
# STEEL
# LOK SABHA

UNSTARRED QUESTION NO:617
ANSWERED ON:13.08.2012
SUPPLY OF STEEL TO INO
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**Will the Minister of STEEL be pleased to state:**

(a) whether the Steel Authority of India Limited (SAIL) proposes to supply 50,000 tonne of special steel for building a CERN like underground detector for the India based Neutrino Observatory (INO);

(b) if so, the details thereof;

(c) whether the INO will house the world`s largest magnet, about four times larger than the 12,500 tonne magnet housed in the Compact Moon Solenoid (CMS) detector at CERN in Geneva, Switzerland;

(d) if so, the details thereof; and

(e) the time likely to be taken by SAIL to deliver the special steel for the project?

## Answer

THE MINISTER OF STEEL (SHRI BENI PRASAD VERMA)

(a)&(b): Yes, Madam. On the request from Bhabha Atomic Research Centre (BARC), the Steel Authority of India Limited (SAIL) proposes to supply 50,000 tonne soft iron plate for India based Neutrino Observatory (INO) project. Accordingly, a trial production of soft iron plates was taken up at Bhilai Steel Plant (BSP) as per the composition and process parameters decided jointly by SAIL and BARC. The plates have been found acceptable.

(c)&(d): The India based Neutrino Observatory (INO) magnet, once constructed will be of 50,000 tonne. The India based Neutrino Observatory (INO) detector will be a stack of 150 layers of magnetized iron plates. The individual plates will be of 4m x 2m in size and 5.6 cm thick. A total of 15000 such plates will be needed to complete the INO detector.

(e) The time schedule will be worked out jointly by SAIL and BARC as and when firm order is placed by BARC.