

**GOVERNMENT OF INDIA
SPACE
LOK SABHA**

UNSTARRED QUESTION NO:682

ANSWERED ON:03.08.2011

SUPERCOMPUTER BY ISRO

Lagadapati Shri Rajagopal;Shetkar Shri Suresh Kumar

Will the Minister of SPACE be pleased to state:

- (a) whether a supercomputer has been built by Indian Space Research Organisation (ISRO);
- (b) if so, the details thereof;
- (c) whether the supercomputer built by ISRO is comparable with supercomputers built by the other developed countries of the world;
- (d) if so, the details thereof;
- (e) whether the supercomputer would be useful to the people particularly students; and
- (f) if so, the details thereof?

Answer

MINISTER OF STATE IN THE MINISTRY PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS AND IN PRIME MINISTER'S OFFICE(SHRI V. NARAYANASAMY):

(a) Yes, Sir.

(b) Indian Space Research Organisation has built a supercomputer, which is India's fastest supercomputer in terms of theoretical peak speed of 220 TeraFLOPS (220 Trillion Floating Point Operations per second). The new Graphic Processing Unit (GPU) based supercomputer named "SAGA-220" (Supercomputer for Aerospace with GPU Architecture-220 TeraFLOPS) is located at Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram.

(c) & (d) Yes, Sir. ISRO's supercomputer "SAGA-220" is the fastest supercomputer in India and it stands within top 50 supercomputers in the world. The fastest supercomputer belongs to Japan and has a theoretical peak speed of 8980 TeraFLOPS.

(e) & (f) Yes, Sir. "SAGA-220" supercomputer is useful for solving complex flow field problems that requires high performance computing. "SAGA-220" would be useful to students who take up such complex research work.