

GOVERNMENT OF INDIA
DEPARTMENT OF EMPOWERMENT OF PERSONS WITH DISABILITIES (Divyangjan)
MINISTRY OF SOCIAL JUSTICE & EMPOWERMENT
LOK SABHA

UNSTARRED QUESTION NO. 1590
TO BE ANSWERED ON 02.07.2019

Research in Prosthetic Limbs

1590. SHRI G.M. SIDDESHWAR:

Will the Minister of SOCIAL JUSTICE AND EMPOWERMENT be pleased to state:

- (a) whether the Government has taken steps for research in prosthetic limbs and if so, the details thereof;
- (b) whether any advances in prosthetic technology have been made during the last three years and if so, the details thereof;
- (c) whether these advances have been adopted by persons with disabilities in the country and if so, the details thereof; and
- (d) the measures taken by the Government to import prosthetic technology from other countries?

ANSWER

**MINISTER OF STATE FOR SOCIAL JUSTICE AND EMPOWERMENT
(SHRI KRISHANPAL GURJAR)**

(a) There are 2 National Institutes of the Department of Empowerment of Persons with Disabilities which have undertaken research in prosthetic limbs. While Swami Vivekanand National Institute of Rehabilitation Training and Research (SVNIRTAR), Odisha has undertaken research project regarding development of below knee modular prosthesis and development of above knee prosthesis, National Institute for Locomotor Disabilities (NILD), Kolkata, also conducts in house and externally funded research in prosthetic limbs.

(b) NILD, Kolkata has developed prototype of the following prosthetic limbs:

- (i) Paediatric prosthesis
- (ii) Multisensory Myoelectric controlled intelligent active ankle foot prosthesis
- (iii) ISRO smart limb in collaboration with VSSC, ISRO

Similarly, SVNIRTAR, Odisha has developed modular above elbow and shoulder disarticulation prosthesis for selective amputees. Pt. Deendayal Upadhyaya National Institute For Persons with Physical Disabilities (PDUNIPPD), New Delhi has taken steps for implementation of advance socket technology for making prosthetic limbs.

(c) PDUNIPPD, New Delhi uses advance socket technology to fabricate lower and upper limbs prosthetics which are provided to the beneficiaries.

(d) Artificial Limbs Manufacturing Corporation (ALIMCO), a Public Sector Unit of Department of Empowerment of Persons with Disabilities has signed Technology Transfer Agreement with Ottobock, Germany to manufacture advanced prosthetics. The production of these high end prosthetics has started at its manufacturing facility at Kanpur.