

**Process for Isolation of Hyaluronic Acid for Ophthalmic Surgery**

3243. SHRI BHERU LAL MEENA: Will the Minister of HEALTH AND FAMILY WELFARE be pleased to state:

(a) whether scientists of CSIR Centre for Biochemicals have standardised a process for the isolation of Hyaluronic Acid useful in pothalmic surgeries;

(b) whether it would help reduce the total cost incurred on cataract surgery; and

(c) if so, the details thereof and the steps proposed to be taken by the Government in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF HEALTH AND FAMILY WELFARE (SHRIMATI D.K. THARA DEVI SIDDHARTHA): (a) and (b). Yes, Sir.

(c) The Scientists of C.S.I.R. Centre for Bio-chemicals have standardised a process for the isolation of Hyaluronic acids. Hyaluronic acid is used in:

1. Intra ocular Lens Surgery
2. Corneal Transplantation
3. Perforating Corneal injuries-repair.

Hyaluronic acid is also used as a substitute to replace natural vitreous. The findings of the process are a subject of patent application and it will not be in public interest to give full details of the process. The product isolated, however, satisfies the chemical and physical properties required for the grade used in ophthalmic surgery.

Hyaluronic acid is one of the components involved in the total cost of the Cataract Surgery. Other costs include intra-ocular lens (if an implant is to be made). Sur-

geon's charges etc. It is expected that the cost of indigenous product will be substantially less as compared with the cost of comparable available internationally.

An agreement has been signed for the release of process for commercialisation so that product becomes available to patients in India.

[*Translation*]

**Institutes of Management**

3244. SHRI SUSHIL CHANDRA VERMA: Will the Minister of HUMAN RESOURCE DEVELOPMENT be pleased to state:

(a) the number and names of Institutes of Management being run with the Central assistance;

(b) the amount of expenditure incurred during the last three years, year-wise and the number of students trained in each institution;

(c) whether the Government reviewed the working of these institutions;

(d) if so, the outcome thereof?

(e) whether the Government propose to set up more such Institutes; and

(f) if so, the details alongwith the proposed locations thereof?

THE MINISTER OF HUMAN RESOURCE DEVELOPMENT (SHRI ARJUN SINGH): (a) Four Indian Institutes of Mangament located at Ahmedabad, Calcutta, Bangalore and Lucknow are being run with the Central assistance.

(b) As per the attached statement.