

Shrimati Lakshmi Menon: I have already stated that the whole amount of Rs. 17.47 crores is given as an out-right grant, which means we are giving them all the aid necessary.

Shri Kapur Singh: May I know, whether, these road building projects, in any manner, link up with the surface communications system being set up by the Chinese in this Himalayan region?

Shrimati Lakshmi Menon: I have already answered that no other country is involved in this.

Mr. Speaker: The question is whether the building of these roads would ultimately result in connecting these communications with the communications set up by China in this region?

Shrimati Lakshmi Menon: I cannot say.

Shri Hari Vishnu Kamath: Is this scheme a part of, or is it being dovetailed into, the Dragon project for Bhutan, or is there any sort of co-ordination between this one and the Dragon project?

Shrimati Lakshmi Menon: I do not know anything about the Dragon project.

Shri Hari Vishnu Kamath: Nothing at all? Government is so supremely ignorant, blissfully ignorant of the Dragon project? There is Tusker for NEFA, Dragon for Bhutan and Beacon for Ladakh.

Shrimati Lakshmi Menon: Yes. Money is used for the road building project also.

Mr. Speaker: Would it be dovetailed, or would there be any co-ordination between the two, or both are being taken up separately?

Shrimati Lakshmi Menon: I think it is being taken up separately.

Dr. L. M. Singhvi: May I know whether an effort has been made to assess the total perspective road requirements in the areas of Bhutan and Sikkim on a comprehensive basis, and to finalise a road building programme in this region on the basis of such a comprehensive assessment in consultation with the Government of Bhutan?

The Minister without portfolio (Shri Lal Bahadur Shastri): Yes, Sir. Proper assessment and survey have been made in regard to all these border roads. Certainly what we do, we will do in consultation with the Bhutan Government.

Intensification of Scientific Research

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*484. { Shri Bhagwat Jha Azad:
Shri Sidheshwar Prasad:
Shri Bibhuti Mishra:
Shri D. D. Puri:
Shri P. R. Chakraverti:

Will the Prime Minister be pleased to state:

(a) whether Government have accepted certain recommendations of the Scientific Advisory Committee to the Cabinet in regard to intensification of scientific research in the country;

(b) if so, what are those recommendations; and

(c) the recommendations which have not been accepted along with reasons therefor?

The Minister of State in the Ministry of External Affairs (Shrimati Lakshmi Menon): (a) Yes.

(b) The recommendations are:—

(1) The number of men engaged in scientific research and development should be increased and their quality improved;

(2) Materials, instruments and tools, particularly those required for developing new

materials, tools and weapons for defence, should be freely provided;

- (3) The study of the country's environmental and natural resources, with a view to their better utilisation, should be intensified;
- (4) The country should be made to turn away from the concept that research in development is a kind of luxury and should be made to realise that under present conditions the speeding up of research and development is a matter of the most vital importance, especially for defence; and
- (5) Within the normal budget limitations, there should be no ban on the creation of new scientific posts in scientific institutions.

(c) The Government have accepted all these recommendations of the Scientific Advisory Committee to the Cabinet.

Shri Bhagwat Jha Azad: May I know whether Government have made any assessment as to how far we would be required to put more allocations for research as a result of these recommendations and, if so, what decision has been taken in this behalf?

Shrimati Lakshmi Menon: These recommendations were approved by the Cabinet only on the 12th November, 1963. We will have to wait and see how this is implemented.

Shri Bhagwat Jha Azad: May I know whether this Committee has also made any assessment as to how far we have been able to keep our country abreast of the latest scientific research in the world? Are we at par or much behind?

Shrimati Lakshmi Menon: Yes, Sir. A comparison of the data in respect

of research and development expenditure of various countries has been made and it shows that we are very much behind. -

श्री सिद्धेश्वर प्रसाद: क्या इस वैज्ञानिक सलाहकार समिति ने अभी हाल में प्रोफेसर ब्लैकट द्वारा दिये गये यहां की नेशनल फिजिकल लेबोरेटरी और यहां की वैज्ञानिक अनुसन्धान समस्याओं के मुद्दों के बारे में विचार किया था, यदि हां तो उस ने इस सम्बन्ध में क्या निर्णय लिया ?

बिना विभाग के मंत्री (श्री लाल बहादुर शास्त्री): यह एक कमेटी बहुत खास लोगों की बनाई गई थी जिस ने कि सभी विषयों पर जो भी सिफारिशें हुई थीं उन पर विचार किया है और यहां भारत की आवश्यकताओं के अनुसार अपनी सिफारिशें भी पेश की हैं जिन को कि सरकार ने पूरी तरह मान लिया है।

श्री सिद्धेश्वर प्रसाद: प्रोफेसर ब्लैकट ने जो मुद्दा दिये हैं क्या उनपर भी इस ने विचार किया है ?

अध्यक्ष महोदय: जब उन्होंने ने कह दिया कि सभी पर विचार किया है तो फिर श्री ब्लैकट के मुद्दा भी उन में आ जाते हैं।

Shri Hem Barua: Since migration of scientists to the United States is as much a problem with us as to the United Kingdom, may I know whether Government have offered any special advantages or benefits to the Indian scientists working abroad so that they may come back to this country and help us in our intensified scientific research work?

Mr. Speaker: Is that also one of the recommendations?

Shrimati Lakshmi Menon: No, Sir.

Mr. Speaker: Then, this question cannot come. I do really appreciate that it is commendable but the point is whether it is relevant to this question or it is outside.

Shri Hem Barua: May I establish the relevancy? The recommendations are for intensified scientific research work in this country.

Mr. Speaker: But was this their recommendation? No. So, I cannot allow this question.

Shri Tyagi: Could the hon. Minister give this House an idea of a few important and original researches made by these laboratories in India?

Shrimati Lakshmi Menon: A separate question may be asked, Sir.

Dr. Sarojini Mahishi: May I know whether any expert committee to evaluate the work done in some of the scientific research institutes has been appointed and, if so, with what results?

Shri Lal Bahadur Shastri: It is generally agreed not only by the scientists of India but by scientists abroad also, that the work of our laboratories has been of a high order. The main purpose of this committee was that we should provide all necessary facilities to our laboratories and other departments concerning science in respect of finance or in respect of other matters. We have, therefore, decided to have a permanent committee to see that no difficulties come in the way of scientific work or scientific development.

Shri Joachim Alva: Recently, we had the benefit of a visit to our country by Sir Jolly Zuchermann who has been Scientific Adviser to the British Cabinet. May I know whether any consultations were held with him and whether he gave us the benefit of his advice on scientific research?

Mr. Speaker: Relating to this committee or any other committee?

Shri Joachim Alva: This very committee, Sir.

Shri Lal Bahadur Shastri: I would require notice.

Shri Tridib Kumar Chaudhuri: May I know whether the attention of the Government has been drawn to serious deficiencies as were pointed out by the Minister for Irrigation and Power the other day, that our scientific development is so deficient that we cannot find engineers and technologists to repair the power turbines and, if so, has any step been taken to make good that deficiency very soon?

Mr. Speaker: It is not the general deficiency that we are discussing. It is the particular report of a committee that was appointed to find out how intensive our efforts are, which of those recommendations have been accepted and which rejected. That is the question before us.

श्री यशपाल सिंह : क्या इस कमेटी ने इस तरह की कोई सिफारिश की है कि रुड़की यूनिवर्सिटी में, जो कि इंजीनियरिंग की हाइएस्ट यूनिवर्सिटी है, जो मोस्ट काम्प्यूटेंट हैड्ज़ नैटे हुए हैं, उन से इस बारे में सलाह ली जाये !

अध्यक्ष महोदय : अगर नहीं भी की, तो अब उन के नोटिस में आ गया है ।

Shri Warior: May I know whether this committee has recommended more allocation to the scientific education in the universities?

Shri Lal Bahadur Shastri: In so far as scientific education is concerned, it relates to a different Ministry. Yet, as a whole, the committee have recommended most strongly that education or training or research in regard to science should be fully developed and fully helped.

Indian Ocean

*485. **Shri Hari Vishnu Kamath:** Will the Prime Minister be pleased to refer to the reply given to Starred Question No. 577 on the 9th September, 1963 and state:

(a) whether the Indonesian Government have officially and formally