पशु स्वास्थ्य एवं जैविक उत्पाद संस्थान, मह (मध्य प्रदेश) का आधुनिकीकरण

written Answers

1628. भी शिव प्रसाद च नपुरिया: क्या प्रधान मंत्री यह बताने की कृषा करेंगे कि :

- (क) भ्या यह सच है कि मध्य प्रदेश सरकार ने पशु स्वास्थ्य एवं जैविक उत्पाद संस्थान, महू के प्राधुनिकीकरण तथा उसकी उत्पादन क्षमता को सुदृढ़ करने के लिए विज्ञान और प्रौद्योगिकी विभाग को 145.59 लाख स्पए का एक प्रस्ताव भेजा है ; और
- (क) यहि हो, तो सरकार उस पर कब तक आवश्यक स्वीकृति तथा अपेकित धनरासि मध्य प्रदेश सरकार को देगी?

धिक्र'न भौर प्रौद्योगिकी मंत्रालय, इलैक्ट्रानिकी विभाग ग्रौर महाक्तागर विकास विभाग में राज्य मंत्री श्रौर संसदीय कार्य मंत्रालय में राज्य मंत्री (श्री रंगराजन कुमारमंगलम) : (क) जी हों ।

(ख) संस्थान से यह प्रनुरोध किया गया है कि वे अपने परियोजना प्रस्ताव को परिकोधित करें । उनका परिशोधित प्रस्ताव अभी प्राप्त नहीं हथा है ।

Cultivation of Algal

1629. SHRI S. MADHAVAN: Will the PRIME MINISTER be pleased to state-

- (a) whether Government would take steps for mass scale cultivation of blue green algal like spirulina which have been identified as potential source of protein, and if so, what are the details thereof;
- (b) what steps are being taken to produce non-conventional foods te

bridge the protein gap in diet in our country; and

to Questions

(c) whether Government are aware of the technology for mass culture and production of spirulina developed in Murugappa Chettiar Research Cen. tre, Madras and if so, what are the details thereof?

THE" MINISTER OF STATE IN THE MINISTRY OF SCIENCE TECHNOLOGY DEPARTMENT OF ELECTRONICS AND DEPARTMENT OF **OCEAN** DEVELOPMENT MINISTER OF STATE IN THE MINISTRY OF **PARLIAMENTARY** AFFAIRS (SHRI KUMARAMANGALAMJ .: (a) At pre, sent there is no plan for mass scale cultivation of blue green algal like spirulina by the Government since the technology has already been developed and transferred to the indust ries through irialigenous efforts.

- (b) No major efforts are being taken at the present time to produce nonconventional foods to bridge the protein gap in diet in the country based on algal material. The Murugappa Chettiar Research . Centre, Madras, has, however, taken up the large scale nutritional supplementation using spirulina in a rural population of 5000 school children. The aim of the project is to provide supplementary Vitamin A and its precursors for overcoming blindness in children that is primarily caused by Vitamin A deficiency. The project is supported by the Department of Bio technology.
- (c) Yes, Government is folly aware of mass culture technology for production" of spirulina developed by Shri A.M.M. Murugappa Chettiar Research Centre, Madras. National Research Development Corporation was involved in up-scaling this technology. The technology has already been transferred to M/s New Ambadi Estates, Madras, for large scale production.