

आणविक घड़ी

*४२०. श्री नवल प्रभाकर : क्या प्राकृतिक संसाधन तथा वैज्ञानिक गवेषणा मंत्री यह बात की जानकारी देंगे :

(क) क्या यह सच है कि नई दिल्ली स्थित राष्ट्रीय भौतिक प्रयोगशाला में एक आणविक घड़ी बनाई जा रही है; और

(ख) यदि हां, तो क्या उस के पुर्जे भी वहीं बनाए जा रहे हैं ?

The Deputy Minister of Natural Resources and Scientific Research (Shri K. D. Malaviya): (a) and (b). Yes, Sir. The National Physical Laboratory has built up a quartz clock and experimental work is being done on linking this clock with selected frequencies in the molecular resonance spectrum of ammonia gas in the micro-wave region.

श्री नवल प्रभाकर : क्या मैं जान सकता हूँ कि यह आणविक घड़ी साधारण घड़ियों की तुलना में स्थायित्व की दृष्टि से कैसी होगी ?

श्री के० डी० मालवीय : इसके ऊपर तो अभी यह एक्सपेरिमेंट ही हो रहा है। उसका नाम एटॉमिक क्लॉक दे दिया है, वास्तव में तो यह उस से कुछ और ही है। अभी इससे अधिक कुछ नहीं कहा जा सकता।

श्री नवल प्रभाकर : क्या मैं जान सकता हूँ कि इस घड़ी के सम्बन्ध में कितने दिनों से प्रयोग हो रहा है ?

श्री के० डी० मालवीय : जहाँ तक मुझे सूचना है, यह अभी हाल ही में तैयार हुई है।

Shri Jethalal Joshi: May I know whether there will be any difference in its working during peace time and during war time?

Shri K. D. Malaviya: I have no information on this.

Diwan Raghavendra Rao: May I know if research in the manufacture of these things is conducted by the scientists on their own initiative, or

at the instance of Government, or at the instance of business men if it is a commercial commodity?

Shri K. D. Malaviya: All of these are possibilities. I do not know specifically if some one else outside the National Physical Laboratory initiated it, but most probably the National Physical Laboratory initiated it.

Shri Gidwani: May I request that questions 424 and 438 may be taken up together?

Shri K. D. Malaviya: Sir, I have no objection.

Mr. Speaker: Yes, they may be taken together.

OIL PROSPECTING IN INDIA

*424. **Shri Gidwani:** Will the Minister of Natural Resources and Scientific Research be pleased to state:

(a) whether it is a fact that a large number of foreign companies had applied for oil prospecting in India;

(b) if so, which are those companies;

(c) whether their applications have been disposed of; and

(d) if so, what is the decision?

The Deputy Minister of Natural Resources and Scientific Research (Shri K. D. Malaviya): (a) and (b). Only three foreign companies have applied for oil prospecting in India. These are (i) the Standard Vacuum Oil Company, (ii) the American Overseas Petroleum Ltd. and (iii) the Assam Oil Co.

(c) and (d). Some applications have been disposed of and some concessions granted, while other applications are awaiting decision.

OIL PROSPECTING DIVISION

*438. **Shri Gidwani:** Will the Minister of Natural Resources and Scientific Research be pleased to state:

(a) whether it is a fact that Government propose to set up an Oil Prospecting Division; and

(b) if so, what will be its functions?