

Council as an advisory body on questions of scientific and technological methods affecting the expansion of Canadian industries or the utilization of the natural resources of Canada. The Council was also given charge of all matters which might be assigned to it affecting scientific and industrial research in Canada.

The National Research Council now operates under the Research Council Act, 1924 (14-15 Geo. V, c. 64), and in addition to the general powers conferred upon it by the above Act, the following specific duties have been assigned to it:—

To promote the utilization of the natural resources of Canada;

Researches with the object of improving the technical processes and methods used in the industries of Canada, and of discovering processes and methods which may promote the expansion of existing or the development of new industries;

Researches with the view of utilizing the waste products of said industries;

The investigation and determination of standards and methods of measurements, including length, volume, weight, mass, capacity, time, heat, light, electricity, magnetism and other forms of energy, and the determination of physical constants and the fundamental properties of matter;

The standardization and certification of the scientific and technical apparatus and instruments for the Government service and for use in the industries of Canada; and the determination of the standards of quality of the materials used in the construction of public works and of the supplies used in the various branches of the Government service;

The investigation and standardization, at the request of any of the industries of Canada, of the materials which are or may be used in, or of the products of the industries making such a request;

Researches, the object of which is to improve conditions in agriculture.

The Council has also been given charge of and direction or supervision over the researches which may be undertaken, under conditions to be determined in each case, by or for single industrial firms or by such organizations or persons as may desire to avail themselves of the facilities offered for this purpose.

The Government has now decided to carry out the recommendation of the National Research Council for the establishment of research laboratories, through which it will be possible for the Council to carry out more effectively the duties which have been assigned to it, and an initial sum of \$750,000 has already been voted towards the capital cost of erecting and equipping the laboratories. It is expected that actual construction will be commenced in 1929 and that the laboratories will be completed before the end of 1930.

In the meantime, the Council is continuing to render the maximum possible service in three main directions:—(a) the training of research workers; (b) the granting of financial assistance toward the prosecution of important approved researches; (c) the co-ordination and stimulation of research work on problems of national importance.

Training of Research Workers.—In order to develop in Canada a corps of highly trained research men for service not only in the universities and technical schools, but also in the industries and technical departments of the Dominion and Provincial Governments, the Research Council has established three classes of