

less than 16 units in English, 16 units in Mathematics, 12 units in one of the languages Latin, Greek, French, German, and either 10 units in Science, or if 12 units be completed in a second foreign language 6 units in one Science."

Further, by adding to the clause the following words: "In general no higher leaving certificate shall be granted to a pupil unless evidence is given that the standard of attainment reached at the end of the course is at least one year in advance of the minimum requirements of the Matriculation Examination of the University or of the Class D examination in corresponding subjects."

4. With respect to clause 5 thereof, by adding the following words: "For leaving certificates applications should in all cases be made through the Principal of the secondary school attended or through an Inspector of Schools, from whom a special recommendation may be required in support of the application."

J. F. ANDREWS,
Clerk of the Executive Council

Authorizing the Gisborne Borough Council to erect Electric Lines within the Borough of Gisborne and Portion of the Cook County.

LIVERPOOL, Governor.

ORDER IN COUNCIL.

At the Government House at Wellington, this twenty-seventh day of July, 1914.

Present:

HIS EXCELLENCY THE GOVERNOR IN COUNCIL.

WHEREAS by section two of the Public Works Amendment Act, 1911, it is provided that no person shall lay, construct, put up, place, or use any electric line except under the authority of a license issued by the Governor in Council under that Act:

And whereas the Gisborne Borough Council (hereinafter referred to as "the Council") desires to erect electric lines in the Borough of Gisborne and a portion of the Cook County, and it is expedient accordingly to issue a license in respect thereof under the said section:

Now, therefore, in pursuance and exercise of the powers conferred upon him by the said section, and of all other powers enabling him in that behalf, His Excellency the Governor of the Dominion of New Zealand, acting by and with the advice and consent of the Executive Council of the said Dominion, doth, subject to the conditions set forth in the Schedule hereto, hereby authorize the Council to erect, construct, lay down, and maintain electric lines for lighting, heating, and power purposes within the Borough of Gisborne (as at present constituted), and the portion of the Cook County shown in red and blue colours respectively on the plan marked P.W.D. 33836, and deposited in the office of the Minister of Public Works, at Wellington, in the Wellington Provincial District; along the routes shown by means of red and blue lines on the plan marked P.W.D. 34515, also deposited in the said office of the Minister of Public Works, and such further electric lines within the areas coloured red and blue on the first-mentioned map as may from time to time be required.

SCHEDULE.

CONDITIONS.

1. In the following conditions,—

"Consumer's wires" means any electric lines on a consumer's premises which are connected to any service lines of the Council at the consumer's terminals.

"Council" means the Gisborne Borough Council.

"Electric line" means any wire, wires, conductor, or other means used for conveying, transmitting, or distributing electricity for power, lighting, or heating purposes; and includes any instrument, insulator, casing, tubing, pipe, covering, or post enclosing or supporting an electric line, or anything connected therewith.

"Pressure" means the difference of electrical potential between any two conductors through which a supply of energy is given, or between any part of either conductor and the earth.

Where the conditions of supply are such that the pressure at any pair of consumer's terminals does not exceed 250 volts, the supply shall be deemed a low-pressure supply.

Where the conditions of supply are such that the pressure exceeds 250 volts, but does not exceed the maximum voltage of the system, the supply shall be deemed a medium-pressure supply.

"Telegraph" includes telephone.

Any metallic body, to be "efficiently connected with earth," shall be connected with the general mass of the earth in such manner as will ensure at all times an immediate and safe discharge of electrical energy.

"Inspecting Engineer" means the Engineer or other officer appointed by the Minister for the purpose of inspecting the works to be constructed or maintained under this license.

"Minister" means the Minister of Public Works.

"Street" includes road.

System of Supply.

2. The system of supply shall be as follows:—

(a.) Direct-current two- or three-wire system, with 500 volts between the outers and 250 volts between each outer and the neutral conductor.

(b.) Three-phase alternating current generated at a frequency of 50 cycles per second, and pressure not exceeding 3,300 volts between phases for transmission to pole transformers. The low-tension distribution shall be on the three-phase four-wire system, one phase wire and the neutral being used for single-phase service. The neutral point of the secondary windings of all distribution transformers shall be effectively earthed at the site of the transformer. Low-tension distribution voltages shall be 400 volts between phase wires and 230 volts from any phase wire to the earthed neutral.

Connection of Circuits with Earth.

3. The connection with earth of the neutral conductor shall be at one point only on each distinct circuit—namely, at the generating station, substation, or transformer; and the insulation of the circuit shall be efficiently maintained at all other parts.

No fuse shall be employed in the neutral conductor, and a switch or link shall be provided for disconnecting the earth connection for testing.

In the earth connection of the direct-current three-wire system there shall be a recording ammeter reading to a maximum of five amperes.

Switchboard.

4. The main switchboard shall be made of and be mounted on material that is not inflammable.

Circuit-breakers.

5. All outgoing feeders and distributors shall be provided with automatic circuit-breakers or fuses, set to open circuit at 50 per cent. excess current over the rated full load of such feeder or distributor, with a time-limit not exceeding ten seconds.

Overhead Conductors.

6. All overhead conductors shall be of hard-drawn copper. At telegraph crossings the electric lines shall cross over or under the telegraph wires, as may be decided by the Minister of Telegraphs, and where they cross over or under open telegraph or any other aerial wires they shall be insulated throughout the entire length of every crossing-span with not less than 300-megohms-per-mile grade of vulcanized rubber, except that where it may be impracticable or undesirable to so insulate the electric lines over spans at such crossing-places the insulation of the electric lines may be triple weatherproof, subject to the consent of the Minister of Telegraphs; provided that all other aerial wires referred to are insulated at those crossing-spans with not less than 300-megohms-per-mile grade of vulcanized rubber, or are otherwise satisfactorily insulated. In cases where telegraph or other aerial wires already exist and are required to be insulated, their insulation shall be effected at the Council's expense, and shall be to the satisfaction of the Minister of Telegraphs.

All electric lines shall be insulated throughout their entire length, and, except where otherwise provided, that insulation may be triplex weatherproof compounded insulation. In the outlying streets bare hard-drawn-copper wire may be used for street-lighting purposes, subject to an understanding being arrived at with the District Engineer of the Public Works Department at Gisborne as to what are outlying streets. If at any time it is found detrimental to the public safety to have these wires bare, they shall be insulated when deemed necessary. No electric line shall come within 3 ft. of any other class of aerial wires or of cables, except where it may be permitted to pass the electric line through these other wires or cables at a pole.

Post and Telegraph Crossings.

7. Where lead-covered telephone cables are crossed above by the electric lines, the latter wires shall be insulated with not less than 300-megohms-per-mile grade of vulcanized rubber throughout the crossing-span, and over