

Such equipment shall be suitable for and capable of generating electrical energy equal to 100 kilowatts.

- (d.) Transmission and other lines over the routes shown by means of lines and small circles on the said plan.
- (e.) Such further transmission and other lines within the Borough of Taihape as at present constituted and within that part of the Rangitikei County situated between the Taihape Borough boundary and the Hautapu River, and bordered green on the plan marked P.W.D. 33664, as may from time to time be required within such borough and part of the Rangitikei County respectively.

9. The licensee shall have the right at any time or times during the continuance of this license, with the consent of the Minister, to enter upon any road or other land, whether vested in or occupied by the Crown or any other person or body corporate, and there to construct, erect, lay down, maintain, renew, or repair all such transmission-lines, poles, or other things as are required for the transmission of electricity between the generating-station and any of the substations to which this license applies.

10. Notwithstanding anything in the last preceding clause, no work of any nature shall be erected or constructed in pursuance of this license upon, over, or under any part of the Government railways until the licensee has obtained the consent of the Minister of Railways thereto, as required by section 4 of the Government Railways Amendment Act, 1910 (No. 2).

11. The Inspecting Engineer, both during and after the construction of the works, shall have free access to and liberty at any time to inspect the same so as to ensure that the provisions of this license are given due effect to.

12. After the said works have been completed, the licensee shall maintain the same in proper working-order during the continuance of this license.

13. The licensee is hereby empowered to take, under the Public Works Act, 1908, as for a public work, such land as may, in the opinion of the Governor, be necessary to enable the licensee to construct and maintain the various works authorized by this license.

14. Nothing herein shall prevent the Governor in Council from granting to any person or body corporate other than the licensee a license to take water from any portion of the said river except at the place where the licensee is by this license empowered to take it; provided that no such license shall so operate as to reduce the volume of the water which the licensee is by this license authorized to take from the said river.

15. If the licensee fails or neglects—

- (a.) To use or maintain the said works after completion so as to secure the full benefit of the undertaking; or
- (b.) To observe any of the conditions or obligations herein imposed,—

then and in any such case the licensee shall be liable to a fine of £50 for every week or part of a week during which such default or neglect continues, or the Governor may by Order in Council revoke this license.

16. Notwithstanding anything in the last preceding clause, this license shall not be revoked and no proceedings shall be taken for the recovery of a fine in respect of the breach thereof unless and until notice in writing of the intention so to revoke the license or to take such proceedings has been served upon the licensee or placed upon some principal or conspicuous part of the works, and default has been made by the licensee in repairing or remedying the breach or breaches specified in the said notice for the following periods:—

- (a.) For any breach which in the opinion of the Governor can be met by a fine, for thirty days after the service of such notice.
- (b.) For any breach which in the opinion of the Governor is of such a nature as to require the revocation of this license, for ninety days after the service of such notice.

17. Nothing herein contained shall be deemed in any way to limit any rights or powers vested in His Majesty the King, or in the Governor on his behalf, or otherwise under any Act of the General Assembly authorizing the construction, management, or working of any public works. Nor shall His Majesty, or the Governor or any person on his behalf, be liable to pay to the licensee any compensation for injury done to the works herein authorized by the construction, management, or working of any such public work as aforesaid, or for the loss occasioned thereby, or for the exercise of any such right or power as aforesaid.

18. The licensee may at any time, with the consent of the Minister, surrender this license, and shall thereupon,

if so required by the Minister, remove from the ground all removable equipment, machinery, buildings, poles, transmission-lines, and other plant herein authorized to be installed or provided. If the licensee neglects or fails so to remove the said plant within twelve months after being required so to do, such equipment, machinery, buildings, poles, lines, and other plant shall, without payment or compensation, vest in and become the property of the Crown.

19. The terms and conditions of this license may at any time or from time to time, at the request or with the consent in writing of the licensee, be altered by the Governor by Order in Council.

20. With respect to the transmission and other lines authorized to be erected by this license, and to the transmission and supply of electricity in pursuance thereof, the following special provisions shall apply.

SYSTEM OF SUPPLY.

21. The system of supply shall be a three-wire direct-current system, with a voltage at consumer's terminals of 460 volts between the outers and 230 volts between each outer and the neutral. The neutral shall be earthed at the main switchboard, but otherwise efficiently insulated throughout its length. The earth connection shall be provided with a switch for cutting off the earth connection for testing, and with a recording ammeter reading to a maximum of 5 amperes.

REGULATION OF PRESSURE.

22. The pressure shall be maintained within 4 per cent. above or below the declared pressure at the consumers' terminals. The Council shall maintain a suitable recording voltmeter, and on complaint by any consumer that the variations in voltage exceed these limits, or on the instructions of the Inspecting Engineer, the Council shall connect a recording voltmeter to record the pressure between the lines at their entrance to the consumers' premises, and shall supply to the Inspecting Engineer a chart showing the variations in voltage between the lines at this point for a period of seven consecutive days. If the variations thus recorded exceed the above limits, the Council shall take immediate steps to comply with this regulation. If after thirty days a similar chart shows that the above limits of variation in voltage are not complied with, a breach of these regulations shall be deemed to have been committed. If the accuracy of the Council's recording voltmeter is questioned by the consumer, a standard instrument shall be supplied by the Inspecting Engineer, the readings of which shall be accepted as final.

SWITCHBOARD.

23. All switchboards shall be made of and mounted on material that is not inflammable, and no switchboard conductor shall carry electric current at a density exceeding one thousand amperes per square inch.

CIRCUIT-BREAKERS.

24. All outgoing feeders and distributors from any powerhouse or sub-station 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.

DISTRIBUTION.

25. The distribution may be carried out either by underground or overhead conductors, provided that if at any time it is deemed by the Minister to be detrimental to the public safety for the conductors or any particular class of conductors to be overhead they shall, on receipt of notification to that effect from the Minister, and within ten months of such notification, be laid underground, and all consequent and necessary alterations made by and at the cost of the Council.

OVERHEAD ELECTRIC LINES.

26. Overhead electric lines shall be of stranded hard-drawn copper, aluminium, or other material of not less than .0129 square inches in section, provided that service wires of short span may be not less than .0072 square inches. The lines shall be covered throughout with triple braiding thoroughly impregnated with weather-proofing compound, provided that where circumstances permit the lines may, with the consent of the Minister, be bare.

The stress in overhead conductors shall not exceed 25,000 lb. per square inch for copper and 12,000 lb. per square inch for aluminium in the extreme case of a temperature of 20° Fahr. and a wind-pressure of 18 lb. per square foot of diametrical plane occurring simultaneously. The span between supports and the sag shall be determined to conform with the above limiting stresses, provided that the span shall not exceed 200 ft.