

*Hawera*.—Bushing cupboard made up and tubular heaters installed. New cottage (No. 4) erected. New car-type battery and trickle charger put into service. 7,500 kVA. transformer bank, ex Bunnythorpe, received and placed on pads and connected on 110 kV. side. Concreted cable trench completed. New 110 kV. and 11 kV. busbar structures erected to enable spare transformer to be connected in without shifting.

*Stratford*.—7,500 kVA. transformer bank, ex Bunnythorpe, received and placed on pads. Poles erected and transformer fuses and A.B.s mounted for alternative local service supply. Cables run and changeover switch installed. New battery put into service. New pad put down for O.C.B. 62.

*Mataroa*.—Pole-rack constructed. Concrete pad laid under pole-gantry.

*Ohakune*.—New oil-store built. Storage tank for spare 110 kV. bushings mounted on steel structure.

*Khandallah*.—20,000 kVA. synchronous condenser and associated switch and control gear received, and installation neared completion. Transfer of control to new control-room completed and Central Park supervisory in service. 110 kV. P.T.s put into service on Central Park line. New relays put into service on all 110 kV. lines. New switchboard for substation local service erected, also new board in oil-house. Bushing cupboards made up and heaters wired. New supports installed for lightning arresters. New house erected in Calcutta Street for operator.

*Central Park*.—Seven 11 kV. feeders and main busbar livened up for testing on 7th April. Supply taken by Wellington City Council on 28th April, 1945. Second transformer bank not yet in service, but all necessary drying out has been done. T.C.O.L. gear not yet in service pending receipt from manufacturers of replacement parts. Site for operator's two-unit house purchased.

*Melling*.—Second 20,000 kVA. transformer bank dried out but not yet in service. New battery installed. Spare bushing cupboard constructed and heaters wired. Outside fire-extinguisher box mounted.

*Haywards*.—Levels were extended over a number of building lots adjacent to the main area to a total of some 40 acres.

*Paraparaumu*.—Cables run from transformers to T.C.O.L. regulator, replacing overhead connections. New house in course of erection.

*Pahautanui*.—Spare transformer, ex Stratford, placed on pad and tested ready for service.

*Upper Hutt*.—Spare transformer, ex Stratford, placed on pad and tested, ready for service.

### (c) *Transmission-lines*

The 220 kV. line survey was continued throughout the year. One circuit of the Otahuhu-Whakamaru section has been virtually completed, as well as about 60 per cent. of the Whakamaru-Bunnythorpe section.

The survey of the 220 kV. and 110 kV. lines at Otahuhu was completed. A preliminary location of the route for the 110 kV. Henderson-Maungatapere line was also made.

Towers for the rerouting of the Takapuna-Belmont line to its original surveyed position were erected.

New 50 kV. lines were completed from Bombay to Waiuku and from Arapuni to Maraetai, also a new 110 kV. line from Hamilton to Karapiro, but these lines are not yet in service. A 110 kV. line from Hamilton to Waihou and a 50 kV. line from Arapuni to Whakamaru are nearing completion.