

(e) *General*

At the Kotemaori Patrol-station the Housing Department have a house under construction.

An 11 kV. switch cubicle and metering equipment were installed on the Manunui 11 kV. line at Taumarunui as the first supply point for the King-country Electric-power Board. The Board started taking supply from the Department at midnight on 31st October, 1946.

3. TRANSMISSION AND DISTRIBUTION

(a) *220 kV. Lines*

Whakamaru-Otahuhu (120 $\frac{1}{4}$ miles).—Tower-sites have been located, pegged, and cross-sectioned for the whole of the east line and for all but 10 $\frac{1}{2}$ miles of the west line. Construction camps are being erected at Gordonton and Waerenga.

Whakamaru-Bunnythorpe (139 miles).—One hundred and twenty-two miles of the east line and 135 miles of the west line have been surveyed, and tower-sites located for 57 $\frac{1}{2}$ miles of the west line. A good deal of work has been done on the location of access roads, including bridging, and on bush-felling.

Some 34 miles of roads and tracks have been formed and partly metalled to give access to the difficult country east of Waiouru. Huts have been acquired for construction camps, and camps are in process of erection at Bunnythorpe, Tihoi, and Turangi.

Orders for steel towers, insulators and hardware, and conductors sufficient for one line have been placed. Erection plant and motor-vehicles are slowly coming to hand.

Bunnythorpe-Haywards.—Detailed location over 53 miles has been made and 9 miles of both east and west lines have been surveyed.

(b) *110 kV. Lines*

Otahuhu-Penrose and Bombay-Otahuhu Deviation.—Route plans and profile tracings prepared.

Henderson-Maungatapere.—Traversing and profiling completed. Seventy-seven miles have been plotted and 37 miles repegged. Route plans are in hand. Building-material for construction camps has been secured from War Assets Realization Board.

Hamilton-Waihou.—The line was completed in July, and was put into service on 6th March, 1947.

Hamilton-Karapiro.—The east circuit was put into service to supply Karapiro from Hamilton on 29th March, 1947.

Tuaiti-Bunnythorpe.—The arrival of consignments of tower steel saw the commencement of tower erection, and this, together with the construction and maintenance of access roads, &c., comprised the major part of the line-construction.

Unavoidable delays in the delivery of tower steel, line equipment, and the shortage of man-power contributed largely to the lack of better progress.

The following are comparative totals:—

	1945-46.	1946-47.
Roads formed	34 miles 49 chains.	38 miles 23 chains.
Roads metalled	15 miles 38 chains.	10 miles 53 chains.
Culverts installed	140	276
Scrub cleared (2 chains wide)	11 miles 18 chains.	4 miles 72 chains.
Sites benched	..	217
Holes dug	76 sites.	397 sites.
Foundations to site	9 sets.	570 sets.
Towers to site	..	485
Stubs set	4 sets.	465 sets.
First section erected	..	391
Towers erected	..	342
Drums of cable received	..	307
Towers despatched (ex Bay View)	..	529

It is anticipated that this line will be in operation by July, 1948.