

Owing to slips, additional excavation was necessary for the low-level road, the base-course metalling of which has now been laid.

All that remained of consolidation grouting was completed with the finishing of the left abutment, though 20 per cent. of the curtain-wall grouting remains to be done.

During the year the power-house structure concreting was completed, the roof asphalted, and 80 per cent. of the internal and external plastering done; the finishing of the interior—such as lining and painting—and the office block are well in hand.

The scroll-case draught-tube liner, &c., for No. 1 unit and the six concrete draught-tube gates were installed, and the erection of scroll case No. 2 and draught-tube extensions is under way.

All but 10 per cent. of the work on the spillway section of the dam and siphons has been completed, the work in hand being the side walls and end wingwalls of the spillway, a footpath, and hand-railing. The intake section is 80 per cent. complete, with 40,500 cubic yards of concrete placed. The arch section has been completed to a level 20 ft. below the roadway over the dam, with 85,500 cubic yards of concrete placed to date.

Left and right abutments and gravity extensions have almost reached completion, as has the core wall, which can now be joined into the two abutments.

Preparations are in hand for the sand blasting and painting of the penstock steel linings, the installation and welding of the auxiliary penstocks, and by-pass pipes having been done during the year.

The outdoor station main structures have been completed and the surrounds levelled for grassing.

Work was commenced during the year on the Karapiro Stream side of the Tunakawa-Karapiro Ridge. To date, 60 per cent. of the 3 ft. porous-concrete pipes have been cast, 200 ft. of drain with filter completed, 400 ft. of outlet drains laid, and two 90 degree V-notch weirs have been constructed at the outlets of the drain.

A 7½ ton radial cableway was erected during the year, this being used mainly for the concreting of the arch and left abutment sections.

In the permanent village, levelling, grassing, kerbing, and channelling continues with 20 per cent. of the work yet to be done. The erection of the substation and hose-reel house is in hand.

The Little Waipa, Pairere, and Maungatautari road deviations were completed during the year, and on the State highway deviation of approximately 1 mile in length some 100,000 cubic yards of earthwork was moved. Work is now in hand on base-course metalling. Maungatautari Bridge—730 ft. long—is well advanced, foundation work, all piers, and two 60 ft. reinforced-concrete spans being completed.

Some 17,000 cubic yards of stone have been won from the old departmental quarry at Horahora, recently reopened to provide material for stone pitching future submerged portions of fills and for base courses.

Incidental structural work for No. 5 unit at Arapuni power-house was commenced during the year and is almost completed.

The maximum number of men employed during the year was 1,136, the average 1,035, of which 135 were carpenters, 230 tradesmen other than carpenters, and 670 labourers. The highest employment figure for carpenters was 180 for July, dropping to 95 in March. The abolition of man-power control made it difficult to obtain tradesmen, particularly carpenters. Records show that 8.3 per cent. of total available time worked was lost through absenteeism.