

for the Asiatic population were so great that they could not put forward a satisfactory solution. As a result, when hostilities broke out, only a modified and limited scheme existed. In the light of subsequent experience it appears that it should have been possible to produce a workable scheme, though it is true that during the campaign there was no shortage of foodstuffs for the civil population.

71. *Water*.—It is only necessary here to explain the water supply in the Singapore Island area. In other parts of Malaya there was little or no danger of a water shortage. Singapore Island was dependent upon two main sources of supply (a) reservoirs at Gunong Pulai in Johore (10 miles west of Johore Bahru) and (b) rainwater catchment areas and open-air reservoirs on Singapore Island i.e. the Seletar, Peirce and MacRitchie Reservoirs. From the former water was brought by above-ground pipe line to Singapore Town where it filled two high-level covered reservoirs at Pearly Hill and Fort Canning. Branches from the Johore pipe-line supplied the Naval Base and Army and Air Force barracks in that area.

The Peirce Reservoir fed by gravity into the MacRitchie Reservoir whence water was pumped into the distribution mains serving the Singapore and Changi areas against the Johore water coming via the Pearly Hill and Fort Canning Reservoirs. The supply from the Seletar, Peirce and MacRitchie Reservoirs was ample to give a restricted supply indefinitely even if the population was increased by refugees, provided the control of these reservoirs remained in our hands and the machinery for distribution continued to operate.

72. *Medical*.—The hospital accommodation which had been prepared in peace-time was of course quite inadequate for the increased garrison. The A.I.F. had their own Base Hospital which was housed in one wing of the new civil hospital at Malacca. The Base Hospital for other Europeans of all three Services was at the Alexandra Military Hospital on Singapore Island. The Indian Base Hospital was in hutted accommodation also on Singapore Island. On the mainland forward hospitals were established—often in schools taken over for the purpose. There were also convalescent camps and "change of air" camps for both Europeans and Indians, and steps were being taken for the construction of a large "change of air" station at Cameron Highlands.

Large reserves of medical supplies were held in the Tanglin (Singapore) area.

With a view to increasing the hospital accommodation in the Singapore area in the event of active operations arrangements had been made with the owners of certain large houses for a portion of them to be used, if required, as overflow convalescent hospitals.

The Civil Medical Services were well developed. There were excellent modern hospitals and a plentiful supply of medical stores. The standard of efficiency of the medical officers was high and there were some exceptionally clever specialists.

73. *Red Cross*.—There were Red Cross organizations working for both British and Indian troops. The Australian Red Cross was responsible for all the British troops.

74. *N.A.A.F.I.*—The N.A.A.F.I. organisation, which had been established in pre-war days, was expanded to supply the needs of the British troops. By special arrangements with the Government of India it also in 1941 undertook responsibility for the Indian troops. This branch of its activities was, however, never fully developed, partly owing to the time required to bring in the additional supplies and partly also to the difficulty in finding suitable men to act as branch managers.

75. *Accommodation*.—In Malaya, as in other Eastern countries, the problem of accommodation for troops differs widely from that in European countries. There are no farms, large empty houses, or village halls, while billeting on the civil population, mostly Asiatic, has obvious objections. In most places there are good schools and these were made available, when the emergency demanded, by the civil authorities. A limited amount of tentage was also available. A great deal of new construction, however, became necessary. This took the form of wooden hutments erected by civil contractors. Water supplies and eventually electric light had to be laid on. Delays were caused by the shortage of materials, some of which had to be brought from overseas. The R.E. Works Services received valuable help from the Public Works Department in the preparation of these camps.

Sites for the camps were selected in accordance with tactical requirements. Some of those in the North had been erected before my arrival in rubber plantations with a view to providing them with cover from air observation. From a health point of view, however, these camps were definitely unsatisfactory and caused me much uneasiness. The thick rubber tree-tops prevented the sun and light from penetrating to the camps, which in consequence were damp and depressing. This had an adverse physical and mental effect on the troops, some of whom were in consequence not as fighting fit at the end of 1941 as they otherwise would have been. I attempted to improve conditions by thinning the tree-tops and also by organising "change of air" camps on Penang Island and elsewhere to which troops could be sent in turn for short periods.

76. *Recreation*.—Everything was done to provide recreational facilities, both outdoors and indoors, for the troops. In some places, however, the nature of the country did not lend itself to outdoor recreation grounds. Clubs for the troops were organized and special buildings erected in Singapore and other of the larger towns. In this connection many of the civilians were both hospitable and generous in their help.

77. *Married Families*.—In peace-time married families accompanied the troops to Malaya. After the outbreak of World War II, however, no married families of the Army or the Air Force were allowed to enter Malaya, but those already there remained there. The same policy applied to officers' families. The families of officers coming to Malaya from China were sent to Australia, where living was very expensive as it was also in India. In consequence, a number of officers of both the British and Indian Service, especially those who had children in the United Kingdom, became financially embarrassed. On the other hand, women were