



Fig. 19 represents the loading of bean cakes onto one of the company's ships

three races are taught together in the higher institutions of learning.

The company spends on educational work about three-quarters of a million yen per annum, in addition to the cost of the necessary buildings, and as much more for the operation of its hospitals, the number of employees of all grades in the latter being about fifteen hundred.

Museums, Laboratories, and Libraries

In the matter of providing museums, laboratories, and libraries, the company has been exceedingly generous. In Dairen there are two large museums. I spent all of two hours in one of them, examining the magnificent exhibits of agricultural and mineral products, which are phenomenally complete and beautifully displayed; but I succeeded in that time in covering only one of the floors.

There are several experimental laboratories in the zone, the principal one being the Central Laboratory at Dairen, shown in Fig. 6. I visited it, and found it most interesting and instructive. Its activity has been directed mainly toward experimental and research work in regard to the industrialization of products pecu-

liar to Manchuria, such as beans, kaoliang, salt, coal, and other minerals. Its investigations have been extensive and their results exceedingly valuable. It has secured a dozen patent rights on important manufacturing processes newly discovered; and many applications for other patents are pending.

During the last two decades, the company's research bureau has published some 350 volumes—books, pamphlets, booklets, and periodicals.

There is no dearth of excellent public libraries in the cities and towns of the company's zone.

Mines

The principal ores that are mined in South Manchuria are coal, oil-shale, and iron. Coal is mined by the company at Fushun and Yentai, the total investment in the industry exceeding one hundred millions of yen at the beginning of 1928. During the preceding years some seven and a half million tons of it were mined, worth eighty-three million yen and costing seventy-three millions to mine and deliver, leaving a profit of ten millions.