

air plant is located at a central point and pipe lines are laid to the points where the work is to be done. At these points are located hoists, pumps, drills and other conveniences for the work, all of which is described in a pamphlet sent out by the company. The Jas. Cooper Mfg. Co., Ltd., Montreal, builds this machinery in Canada and Newfoundland.

We have received a very instructive book on "Water and Water Supplies," by John C. Thresh, D. Sc. (London), M.D. (Victoria), Ph. D. (Cambridge), Medical Health Officer to the Essex County Council, Lecturer on Public Health, King's College, London; Editor of the Journal of State Medicine, Hon. Sec. Incorporated Society of Medical Officers of Health, Fellow of the Institute of Chemistry, member of the Society of Public Analysts, etc., etc. The book contains 438 pages, besides a number of illustrations of machinery and appliances, which are of great value. It fully explains and carefully describes the properties and composition of waters, rain and rain water, surface water, subsoil water, natural spring water, deep well water, river water, quality of drinking water, etc. Impure water and its effect upon the health is discussed and the interpretation of water analysis and the pollution of drinking water. The self purification of rivers, the purification of water on a large scale, domestic purification and the softening of hard water are taken up. The quantity of water required for domestic and other purposes, how to select the source of supply wells and how to construct them, pumps of the best kind and pumping machinery, the storage of water, the distribution of water, the law relating to water supplies in Great Britain, are among the other subjects discussed, together with a vast amount of important information necessary for engineers and persons interested in towns or domestic water supplies.

Industrial Notes.

A new public hall will shortly be erected at Millerton, N.B.

The St. Vincent de Paul hospital at Brockville, Ont., will cost \$4,000.

The Bushnell Oil Co., Sarnia, Ont., has bought the receiving tanks at Bothwell.

A new hotel to take the place of the burned Clifton House, Niagara Falls, Ont., will probably be erected at a cost of \$500,000.

Jno. McGuirl, who was burnt out at Moosomin, Assa., with heavy loss some time ago, will rebuild his wood working factory.

The masons are making good progress with the new buildings of the Deseronto, Ont., Iron Company, and the walls are steadily rising. The carpenters are also at work.

The contract for alterations and additions to the Brantford, Ont., Box Company's works has been let to P. H. Secord. The work is to be completed by 15th September.

The Rathbun Company, Deseronto, Ont., has cleared the ground of the debris caused by the burning of their terra cotta works, preparatory to the erection of new buildings.

D. F. Maxwell, C.E., has been ordered by the St. John City Council to prepare plans for the proposed wharf extension, which are to be filed with the Dominion Government.

The Hamilton Bridge Works, Hamilton, Ont., is very busy and intends to increase its staff. It recently advertised on one day for a stationary engineer, two blacksmiths, four machinists, two punchers and two air riveters.

A. Kellar, Detroit, Mich., wants a free site and a loan of \$5,000, in consideration of which he will move the business of the Michigan Heater Co., of Detroit, to Winnipeg. The company is engaged in the manufacture of stoves and furnaces.

J. H. Connor & Son have just completed a new washing machine factory in Jane street, Ottawa. It is three stories high and is operated by two electric motors. The productions of the new factory will be washers and wringers. The damage reported in the firm's late fire was greatly exaggerated, the actual loss being only about \$600.

The contract between F. Thompson & Company and Lennoxville, Que., for the building of a system of waterworks for the village of Lennoxville, was signed July 27th, and work was commenced upon the undertaking the next day.

Thos. H. Murphy has purchased from the St. Clair Tunnel Co. all the air locks, rams and fittings used in the construction of the tunnel under the St. Clair. The plant will be used in the contract for the construction of the drainage tunnel in Chicago.

B. D. Hanna, of the Dauphin Railway, has secured some samples of red oxide which were found by a Dauphin man about twenty miles south of Birch Island, in Lake Winnipegosis, Manitoba. If the quality is good the deposits will be of immense value, as there are great quantities of it.

The Shawinigan Water and Power Co. is offering special inducements to manufacturers to locate on the St. Maurice River, Que. Large limits of power may be secured, as this is one of the largest powers in Canada. Information may be had from the company, 1724 Notre Dame Street, Montreal.

Engineer Hibbard, who took soundings for a new bridge at Arnprior, Ont., has sent a report to the town council recommending a two-span bridge with one pier, along with the usual abutments. The cost is estimated to be in the neighborhood of \$10,000.

A. Rosseau & Co., Montreal, have been awarded the contract by the city of Quebec for the bridge to replace Bickell's bridge, together with the dam, for the sum of \$23,000. The dam or lock is intended to keep the water at a uniform height of twelve feet at low tide around the Victoria Park.

The necessary stock has been subscribed for the proposed scissors factory in Brantford, Ont., occupying a portion of the old Waterous building. The provisional directors are: J. F. Watt, W. R. Turnbull, R. W. Robertson, George Heyd and W. F. Cockshutt.

The annual report of the city engineer of Halifax, N.S., shows that the city water mains have been carefully cleaned during the year, the Kennedy-Keating scraper being used. The engineer also comments on the fact that no progress has been made in the proposed garbage disposal works during the year.

Rhodes, Curry Co., Amherst, N. S., have been awarded the contract for building the Intercolonial Railway pier and sheds in Halifax. The pier will be 600 feet long by 160 feet wide. The plans are completed for the elevator and Hon. W. S. Fielding is said to have promised that the elevator will be open by Dec. 1st.

The committee considering the sewage question in London, Ont., has reported to the city council in favor of the system of the International Sewage Purification Company, Detroit. The plant is to cost \$41,300 and the annual expense of operations to be \$2,800. Willis Chipman, C.E., is to make a report on the proposed plant.

Mrs. E. J. Sanford, Knoxville, Tennessee, daughter-in-law of Hon. W. E. Sanford, Hamilton, Ont., has given C. Mills, architect, Hamilton, instructions to prepare plans and specifications of a memorial cottage to be erected on the grounds of the Consumptive Sanitarium Association at Gravenhurst, Muskoka.

A license to manufacture in Canada has been granted to the Galena Oil Co., Toronto.

The new iron tank erected by the Edwardsburg, Ont., Starch Co., is nearing completion. It is to contain the water supply of the village, and is forty feet in height, and holds something like 90,000 gallons of water, standing on four legs which are strongly braced. These are sixty-five feet in height, a total height of 105 feet. Two filters are now being installed by the Caledonia Iron Works, Montreal.

The Department of Trade and Commerce has issued a circular calling the attention of manufacturers and others in Canada to the industrial and arts exhibition to be held at Grahams-town, South Africa, from 15th December this year to the 21st January next. Parties wishing to exhibit are asked to make application for space as early as possible, and are notified that arrangements will probably be made for the free transportation of goods to Cape Town. In all likelihood the Government will despatch a vessel direct from Canada to the Cape for the transportation of exhibits, if sufficient are forthcoming to guarantee a full cargo. Parliament, last session, voted an appropriation of \$5,000, which can be devoted to this purpose.