## Water Works.

A few weeks since, J. Ball, Esq., of Jersey City, a gentlemen eminent in his profession, that of Hydraulics and Mechanics, and the representative of one of the most responsible and successful companies we have in this country, for establishing Water Works for supplying cities and towns, was induced by one of our citizens to visit Columbus, and to make a survey and critical examination, preparatory to a report in detail, as to the practicability, and the true cost of such works as would afford a bountiful supply of water to the entire city for all purposes, leaving, of course, the source and quality to be determined by a more critical examination. It will nevertheless be observed that, this gentleman in his report, has directed public attention for a supply to the falls of the Whetstone, a few miles north of the city, and from that point or data, the estimate is made.

It is due to Mr. B., to state, that not so much on his judgment was the point mentioned in his reportchosen-although in his mind it is highly estimated—as upon the concurrent testimony, relative to supply, for eighteen years past, of the entire neighborbood. The piping proposed, the capacity of which, in view of future supply is—and rightly so—a matter of great importance. In this estimate we have to say that sixty thousand population are provided for.

It is also proper to say that among the items suggested for this estimate, two fountains, each half the diameter of the one mentioned for the public square, were included, one each side of the west avenue or entrance to the Capitol.

The following is the report which, upon revision, will be presented to the City Council for Consideration:

per centage of profits being greater in proportion to the cost than the larger streets. With the pipe, we have estimated the expense of branches at all street crossings, which forms the whole institution into a systematic net work, thereby giving a perfect flow and circulation to the water throughout the city, and remers every connection with the main pipe tributary to all others. We also include all branches for the fire hydrants. Sixth. It will require some thirty miles of trench, of a width proper for the size of the pipe to be laid in it, and of depth so as to bring the top of the pipe four feet below the surface of the street. Also the bank filling, so as to leave the streets in good repair. eing great the mers fore the t reat 1 con-. to be laid in it, and of depth so as to bring the street. Also the bank filling, so as to leave the streets in good repair.

Seventh. We estimate for one hundred fire hydrants, of Ayres' patent. We believe them to be the most useful and servicaeble used.

Eighth. It will require two hundred stopcocks, from the size of four inches up to twenty, to be boxed, and with cast iron covers on the level of the street, to divide the town into districts, so that a section only shall be closed at one time for future extensions or repairs.

Ninth. We propose to build a fountain of eighty feet diameter in the State House Square, to be designed in a neat style, and constructed of cut stone—to correspond in material and workmanship, with the State House, (or to be located where you shall designate,) and furnish the same with appropriate center designs.

Tenth. All freights and cartages. (The freight is a large item.)

We think from the above short, condensed description, that you will be able to form a correct conclusion in the matter we present before you.

The amount of distribution comprises the whole of your city. In Cleveland, less than one half of the streets were supplied under the first contract, and in Buffalo less than two fifths. We would like to have you become acquainted, through their reports, with the cost, and all the circumstances attending them.

By far the greatest proportion of the cost of such a work, is in the machinery, reservoir and mains, from which very little revenue can be derived; while if the works are constructed with a proper regard to the distribution of the water to the people, and the money economically expended, the investment will be a profitable one, aside from the great public benefits derived from it.

The whole amount of pipe indicated above, of the various sizes, is one hundred and fittylatemeet гуnpreor an man, im· exfive at a the are the 1 om-1 ed in the t the al to ( con-OF 1 few ll be t of a gaiss 1 omthey ands City with it.
The whole amount of pipe indicated above, of the various sizes, is one hundred and fity-eight thousand eight hundred feet, (158,800) or thirty miles and a fraction, as follows, viz:
...20,700 feet. d above, and fiftyrsey Of 20 inch pipe. 20,700 feet.

Of 18 " " 5,490 " 
Of 12 " 1,600 " 
Of 8 " " 10,300 " 
Of 6 " 60,800 " 
Of 4 " 60,000 " that sensucfor ities We propose to furnish all the materials and labor, and execute the whole in a prompt and work manlike manner, for the sum of two hundred and seventy-five thousand dollars, and guarantee the whole for the term of two years from the introduction of the water.

We would invite the appointment of a responsible commission of your citizens to visit with us a large number of warks of surveyed. as to eriti-( ı deł cost supt 98e8, citizens to visit was seen our construction, of our work, and our We would invite the appoint sible commission of your citiz us a large number of works of and ascertain the character of reliability as designers and c will also propose that if a fu with reference to a source of deemed expedient, we should 6 o be It h itleers and constructors. We are if a further examination source of supply should be ye should be happy to join tion, and estimate upon the ther e.
supply si
e happy tion h with reference to deemed expedient, few I or you in such examination, and estimate upon work as the arrangement should be changed. uch