REFUSE OF OIL REFINERIES.

Building 62 feet 8 inches	long	, 85 fe	et wid	e,	
2 stories, with shaft 2	feet	by 2;	flue, a	50	
feet Light complete,			•		4,000
Setting boilty s and stills,					600
				`	\$11,230

It is capable of refining 2,000 gallons of petroleum per day, and would turn out about 1,500 gallons of refined oil in that time. It would require one superintendent, two engenters, four still men, and four helpers.

The cost of many of the petroleum refineries has been less than the sum named, and, of a few of them, ten times greater.

In many places the petroleum refinery consists of a common boiler still and worm, and a few vats. There are large works, however, in which the details are well carried out. The works of the Liverpool Oil Refining Company, at Bootle, near Liverpool, under the direction of Andrew MeLean, are very complete and efficient. Those of the Kerosene Oil Company, on Newtown Creek, Long Island, New York, and those of Samuel Downer, at Corry, Pennsylvania, are also very extensive and perfect.

In some refineries, when air is used as an agitator, the pipes communicating with the air-pump or blower, pass near the boiler or furnace flues, and in this way hout the air before it is driven into the oil. It is supposed that hot air is a better oxidator than cold.

REFUSE OF OIL REFINERIES.

Formerly the acids and alkalies used in coal oil and petroleum refining were considered as waste materials, but they are now made use of in various ways.

The acid "bottoms," so called, are used in the manufacture of superphosphate of lime, the oil being partly removed.

167