two ordinary workmen, turns out about a ton of blooms in twenty-four hours. The wages amount to eight dollars, and the consumption of coal, including waste, and all really *paid for*, can seldom be estimated at much less than 300 bushels. Of the charcoal, such as I saw at the works, 250 bushels ought to be enough. The expenses of manufacture may then be estimated as follows :--

Estimated cost of a ton of blooms made, on the Lake Shore.

	Lastination	su conco		() i k/1						ne n		C •
2 ton	s of ore,	quarryi	ng and	bau	ling	12	miles,	at	82	•		\$4 00
		ne, at \$1										
		d screen										
250 1	oush. Cl	narcoal,	at Sc. ((aetu	id er	st)						20 00
2 blo	omers	at \$3, 2	helpe	rs at	\$1.	or	same	an	างแก	t as	by	
		1 contrac										8 00
Repa	irs \$1,	Superint	tenden	ee \$1	, In	terc	st \$1	•	•			3 00
Gene	eral exp	enses						•		•		2 00
											•	
	Cost	on Lake	Shore									\$40 00
Ship	ping, fi	eight, co	irting, a	storag	ge a	nd a	onmi	ssio	n, s	ay	•	15 00
	Cost	when so	d at C	levela	und				•	•		\$55 00

Estimated cost of making Charcoal Pig Iron at Detroit, in large blast furnaces, railroad to the mines, and canal built.

13 tons of ore at \$4		\$7 00
130 bush. charcoal at 4c.		5 20
Flux 50c., labor \$2		2 50
Repairs 50c., superintenden	ee 50c.	1 00
Interest, general expenses -		1.00
• • •		

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On the Island of Elba are found large bodies of ore similar to those of Lake Superior. The furnaces for smelting them are on the opposite shore of Tuscany. They are small, and of very peculiar construction, different from any other furnaces, but by their extraordinary yield they have proved to be extremely well adapted for smelting this kind of ore.

THE FOREST CITY IRON WORKS.

The Forest City Iron Works, controlled chiefly by Messrs. Hayes, Moore, McLelland, Renton, and others, will immediately commence the erection of their works on the Lake shore, about one mile east of the dock in Cleveland. They have secured eight acres of ground, a space ample for the most extensive operations, apon which they will commence during the present week, a large smelting and refining works and rolling mill, the former to employ twelve of James Renton's improved ore-welding furnaces, capable of