

INTERNATIONAL SMELTING AND REFINING CO.
EAST CHICAGO, INDIANA

MEMORANDUM

TO R. G. Bowman, General Superintendent
FROM P. S. Toney,
SUBJECT:

DATE January 25th, 1946

I am enclosing herewith Appropriation Request No. 171 for the amount of \$19,300.00 to cover the cost of a Leaded Zinc Packing Plant for the Oxide Department.

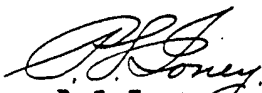
Such a plant has been designed following about the equipment now used for compounding and packing leaded zinc oxides. There are some improvements however. It is proposed to move this entire operation to a separate building where other lead-free products will not be affected. Building #303 as noted on the attached map. In building this new plant it will be possible to construct all of this equipment so as to be dust tight and to provide adequate ventilation where dust cannot be avoided. A stationary vacuum cleaner will be provided with sufficient outlets to the various locations to make it easy to clean the floors.

The plant will receive its zinc oxide by truck and be loaded from the truck to the ear of a monorail system which conveys it over a monorail scale to the mixer bins. Lead sulphate will be delivered by truck and hand trucked to the mixers where both the zinc oxide and sulphate in weighed amounts will be dumped into the mixer. The mixer is hooded and fully protects the workman against dust from this operation. After mixing, the leaded zinc is elevated and conveyed to a floor above where it is screened through Rotex screens and conveyed and elevated again to a bin above the packer. A St. Regis bag packer, which was purchased for this purpose on Appropriation No. 167, together with motors, etc., has been delivered and is ready now to be installed. Mr. Knox and myself saw such a packer in operation in St. Louis on white lead last December. Its installation will eliminate all dust hazard in packing. A bag press will have to be installed to get the leaded skids in shape to warehouse as they cannot be piled one on top of the other without being pressed. The fan and motor for dust collection is on hand together with one AAA Draceo unit. This bag collector is too small for the job and another of equal size was approved on Appropriation No. 168.

Two men should pack 10 tons in eight hours and have time to keep the entire plant clean and the machinery oiled. By the addition of a fork truck and a total of 5 - 6 men the plant would have a capacity of 24 - 30 tons in eight hours.

Existing tracks will provide loading facilities at the building.

The completion of this plant will provide safe working conditions for compounding and packing leaded zinc oxides in a building separate from where lead-free grades are handled.


P. S. Toney
Mechanical Superintendent

PNYC 00013204

PST/fs
encl.

LEADED ZINC PACKING PLANT - OXIDE DEPARTMENT
ENGINEERING DEPARTMENT
EAST CHICAGO PLANT

Estimate No. 171 Dwg. No. L-6-45 Date January 25th, 1946

Q	TITY	DESCRIPTION	MATERIAL DELIVERED	UNIT ON LABOR	LABOR	TOTAL
		<u>Clearing Site</u>				
		Tearing out concrete at motor storage	-		75.00	75.00
		Remove screen partition	-		18.00	18.00
		Remove Monoreil	-		10.00	10.00
		Remove Gallery	-		45.00	45.00
		Remove Machinery	-		180.00	180.00
			-		328.00	328.00
		<u>Building Changes</u>				
		Retaining wall 192'x9'-1728'				
		1728+27-64 Yds. @ \$10./Yd. placed in form	-		510.00	510.00
		Excavation for wall 16' cu.ft./ft. x 192	180.00		45.00	225.00
		3120+27-115 Yds.	-		90.00	90.00
		Reinforcing 192x4-768 + 192x14-5376-6144'				
		6144'x.85-5200# x \$4./Cwt.	190.00		45.00	235.00
		Forms 2 men - 204 Hrs.	90.00		250.00	340.00
		Thru rods, washers and nuts				
		32x15x6.008# + (15x5) = 3000# x 5 + 50%	200.00		40.00	240.00
		Anchor bolts, etc.	20.00		20.00	40.00
		Mucking - 4' deep 60x30-1800x4-7200+27 =				
		270 @ \$.90/Yd.	-		245.00	245.00
		Backfill 270x2 = 540 Yds. @ \$1.00,				
		including hauling with hand labor	-		450.00	450.00
		Floor 64x32-2048x2/3-45 Yds. @ \$10. in place				
		on platform and finishing	90.00		410.00	500.00
		Reinforcing 3/4" (round rods) 12" center line				
		65x33x2-4300 @ \$.40/Cwt.	160.00		30.00	190.00

Estimated By.....

Approved By.....

PNYC 00013205

N13385.01

LEADED ZINC PACKING PLANT - OXIDE DEPARTMENT

ENGINEERING DEPARTMENT

EAST CHICAGO PLANT

Estimate No. 171 Dwg. No. L-8-45 Date January 25th, 1946
 Page 2

Q	TITY	DESCRIPTION	MATERIAL DELIVERED	UNIT ON LABOR	LABOR	TOTAL
		Outside stair and platform concrete				
		32' walls 8x1 = 265 ÷ 27 = 9.5 x 25/Yd.	\$ 105.00		\$ 115.00	\$ 220.00
		Doors 4	130.00		50.00	180.00
		(Note: Platform to carry roter, vacuum cleaner and air compressor)				
		Steel frame work				
		100'-12" I Beam 3500#) 2-1/2 tons in place	302.00		200.00	502.00
		120'-6" I Beam 1500#)	50.00		12.00	62.00
		Form steel 400 sq.ft.	100.00		100.00	200.00
		400 sq.ft. concrete floor @ 50¢/sq.ft.	125.00		100.00	225.00
		40' of pipe rail and stairs				
		Miscellaneous painting	70.00		200.00	270.00
		Electrical for building power line to building	200.00		155.00	355.00
		Lighting panel, fixtures, outlets and transformer	160.00		270.00	430.00
		Two 36" Power driven ventilators	580.00		330.00	910.00
			\$ 2,752.00		\$ 3,667.00	\$ 6,419.00
				PNYC 00013206		

Estimated By.....

Approved By.....

Estimate No. 171

East Chicago, Indiana

TITLE

LEADED ZINC PACKING PLANT
OXIDE DEPARTMENT

1/20/46

Approved:


Chief Clerk

Opened _____ 19__

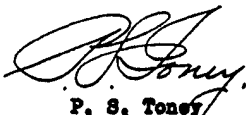
Closed _____ 19__

Amount Estimated \$ _____

Amount Expended \$ _____

REASON WHY APPROPRIATION IS REQUESTED

The amount of this appropriation will provide safe operating conditions for the men packing leaded zinc oxide and place the operation in an existing building away from any chance of contaminating our lead-free grades of zinc oxide.


P. S. Toney
Mechanical Superintendent

PNYC 00013210

APPROVED AND ESTIMATE CORRECT


PLANT MANAGER

APPROVED FOR AMOUNT OF ESTIMATE


Vice President

January 25th, 1946

Estimates of the Cost of All Construction Orders and All Special Orders Amounting to \$200.00 or Over Must be Submitted to the Manager for Approval Before the work is Underaken. No Instructions to Start Work Should be Issued Prior to Securing Such Approval or Until the Chief Clerk has Passed Upon the Disposition of the Expenditures.

ESTIMATE COST

ESTIMATE NO. **171**

C. O. NO. _____

S. O. NO. _____

LABOR	SUPPLIES AND EXPENSES
Clearing Site	328 00
Building Changes	3,667 00
Vacuum Cleaner	200 00
Elevator	450 00
Mixers	883 00
Screens, Feeders & Conveyors	1,400 00
Ventilating System	1,815 00
Bag Press	780 00
Monorail	250 00
10% Engineering & Contingencies	974 00
TOTAL	10,127 00
TOTAL	9,173 00

LABOR \$ 10,127.00
 SUPPLIES EXPENSES 9,173.00
 TOTAL \$ 19,300.00

PNYC 00013211