Power Prices in Grenoble.

Good quality steam coal in Grenoble costs about \$5 per ton. The two power companies in the field sell for about the same prices. Those of the Societe Grenobloise are, in general, as follows:—For 24 hours service the average prices (variable on account of distance) are, say for 100 horse-power, \$30 per horse-power year, and for 500 horse-power about \$26 per horse-power year. In 500 horse-power quantities prices run down as low as \$18 for transmitted power and even to \$12 at the station. This company has now 15-year contracts for about 15,000 horse-power, with some customers 100 miles distant (by line). In the case of the Champ Company selling upwards of 4,000 horse-power, the average price per horse-power of the output is about \$25 on a 12-hour day and \$30 on a 24-hour day. Lighting current, sold in Grenoble by the city plant, costs about 12 cents per k. w. hour.

SYSTEM IN INDUSTRIAL ESTABLISHMENTS

BY A. J. LAVOIE.

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THE FOUNDRY. Article X.

Production Office requisition form No. 29, delivered to the Foundry Foreman's office, contains all necessary information to enable this department to get out work without confusion and with despatch. A glance at No. 29 will show

the comprehensiveness of the formal instructions. Sometimes blue-prints are found necessary to supplement the written instructions. If prints are required, a requisition for same to the Engineering Department, No. 3, will bring the required print, as per chart, form No. 61. Now, the foreman, having everything in hand to prepare the work for his men, a job card is necessary (see form No. 54 and No. 113, and No. 45 and No. 113). These job workman can get from the cupola the precise metal mixture or alloy he requires. This is of great importance, both as regards quantity and quality of work. (3) The amount of time to be spent on any given work is specified by the workman on job card No. 54 and No. 113, and No. 45 and No. 113, subject to the approval of the foreman.

(The reader may glance over paragraph No. 3, under "The Making of the Pattern," for the use of form No. 45 and No. 113, which is handled similarly to form No. 9 and No. 20.)

Material.

In the preparation of moulds and cores diverse kinds of sands, facings, etc., are required. The workman, assisted

0.7		CANADA		Specification of Material, Fuel, etc.	Grade No.	Pile No.	each	Weight of each Mater'l	Cost per Pound	Cost of Material \$ c.		CUPOLA HEAT REPORT No.				
ZL	B	CAN		Fire Brick			and the second	33.55			al son	Remarks	Weight	Value per lb.	Cost \$	t c.
(This form to be made in triplicate.) No. 114 FOUNDRY DEPARTMENT NO.	PREPARED	P.Q.,	No.	Fire Clay								Good Castings				
				Wood				-			4	Bad Castings				
		- H	Cupola	Coke								Surplus Metal				
	DATE	UE	Oul	Flux								Gates				
	Chemistry Office Report Number	'S SYSTEM, LONGUEUI	of Metal Required	FUEL—Totals			••••••			······		Total pounds of Iron tapped				
				Pig								Title of Workman	Time taken	Rate	Cost \$	t c.
				Pig								Chemist Report No.	10			
				Pig								Cupola Men				•
				New Scrap								Helpers				
				Machine Scrap								Apprentices				•
				Shop Scrap (Turnings)						2		LABOR-Totals				
				Bad Castings from Heat No.					1			Cost of Labor		le est		
_	-	Ш										Cost of Power for driving blower				
EM	-	ō	Quantity								10	Cost of Fuel		T. T		•••
LAVOIE'S SYSTEM	PREPARED BY	LAVO	No.	MATERIAL-Totals				1.1			-	Cost of Good Castin	gs			
				Total Pounds of Iron Tapped Total Loss of Material in Melting Blast on hours Blast off Duration of Heat			-			- 7-	Burden No.					
											TOTAL COST OF METAL					
LAN	ARE	5					Average blast pressure in oz. Pounds of metal per pound of fuel Cost of good castings per lb.			1	APPROVED BY CHEMIST				1	
7	REP	-													-	
Ä	٩.	A	Alloy							No.						

Printed Black on 20 lb. Fawn Color Bond Paper. Size of form, 6 x 10 inches.

cards are prepared by the clerk as soon as the requisition (form No. 29) is received in the foreman's office. The clerk has also to handle the stores, attend to tool-room, index patterns, keep record of good or bad castings, etc.; in . fact, does all the clerical work required by the Foundry Department.

Labor.

In filling the job cards (form No. 54 and No 113, and No. 45 and No. 113) the clerk must (1) consult the foreman as to which workman is to do the work. Then locate the pattern, and fill in pattern index card, form No. 111 and No. 112. (2) In locating the job card in the selected workman's allotment in the filing cabinet, be careful to so specify the work that when the time comes to pour the metal the by the sub-foreman, having estimated the probable quantity of materials needed to do his work, the foreman prepares form No. 40 and No. 21, of which the original goes to the Stores and the duplicate to the Cost Office (Department No. 4) the same day. The duplicate, however, should be kept on a separate file in Cost Office until the Stores copy is received, which should arrive before noon the following day; then both copies are regularly filed in numerical order under their job numbers and according to drawing number. In this way a strict detailed account is kept of the material required to make any particular mould or core.

Metal.

An adequate supply of metals, without waste, is very necessary, and requires to be dealt with in detail. The