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## *LI WEIJIAN'S BIOGRAPHY*

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# 加蓬蒙贝利锰矿的开发与利用

## The Exploitation and Utilization of Mombelli Manganese Resources in Gabon

中信大锰矿业有限责任公司  
CITIC DAMENG MINING INDUSTRIES LIMITED

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## 基本情况 Basic Information

加蓬蒙贝利位于中奥果韦省恩杰里市北部，直线距离22公里，公路到达矿区距离为36公里。有从利伯韦尔到弗朗斯维尔的公路和铁路从恩杰里市通过，恩杰里市距利伯韦尔的公路里程为256公里，铁路里程为197公里，矿区距恩杰里市火车转运站32公里。矿山探明储量近4000万吨，今年预计产能35万吨，明年达到75万吨。

Mombelli is located on the north of Ndjole City, Moyen Ogooue province. The straight-line distance is 22 kilometers. It is 36 kilometers from the highroad to the mine area. Ndjole City is one of main localities along highways and railways which link Libreville City to Franceville City. The road transportation between Ndjole City and Libreville City is 256 kilometers, while rail transportation 197 kilometers. The mine area is 32 kilometers from railway transfer station of Ndjole City. The proved reserves of the mine is nearly 40 million tons; The production capacity this year is estimated to reach 0.35 million tons, and up to 0.75 million tons next year.

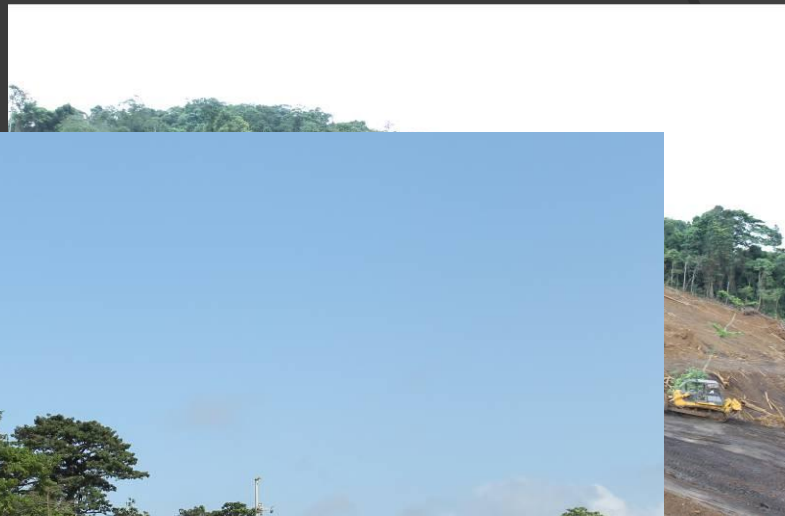
# 基本情况 Basic Information



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矿区地



ing



正在运输中的矿石  
The Ores in Transit



选矿现场 The Scene of Ore Dressing Plant



正在建设中的港口码头  
The Port under Construction

# 矿石典型成分



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Typical Constituents of the ore (%)

Mn	Fe	P	SiO <sub>2</sub>	CaO	MgO	Al <sub>2</sub> O <sub>3</sub>
32	24	0.38	3	0.12	0.05	5.67



# 矿石主要加工方式 Main Processing Mode

- 直接配加部分低磷低铁锰矿冶炼锰系合金  
Blending with low P & low Fe manganese ores directly to produce manganese-based ferroalloys
- 用高炉除铁工艺生产富锰渣（火法选矿）  
Employing the Blast Furnace Deferrization Technology to produce manganese-rich slag (Pyro-Separation Process )



高炉锰铁+富锰渣  
Blast Furnace Ferromanganese  
+ Manganese-rich Slag

富锰渣  
Manganese-rich Slag

# 矿石主要加工方式 Main Processing Mode



- 采用矿热炉除铁工艺生产富锰渣

Employing the Blast Furnace Deferrization Technology to produce manganese-rich slag

电炉锰铁+富锰渣

Electric Furnace Ferromanganese +  
Manganese-rich Slag

富锰渣

Manganese-rich Slag





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# 中国某铁合金公司300m<sup>3</sup>高炉生产富锰渣

It is the 300m<sup>3</sup> Blast Furnace of some Chinese Ferroalloys Company that Produce Manganese-rich Slag.





# 产品指标情况 production index

	Mn(%)	Fe (%)	P(%)
一般富锰渣典型成分 Typical composition of common Manganese-rich slag	30—32	<2.5	<0.03
蒙贝利锰矿生产的富锰渣 Manganese-rich slag from Mombelli mine	40—45	<2.5	<0.03



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谢谢!

THANK YOU!