

☎ 021 31930108 − 9 marketing@cdmione.com



Study on

Potential and Investment Opportunity of IRON STEEL INDUSTRY in Indonesia, 2012

fter Indonesia had been nominated as investment grade at the end of 2011, Foreign Direct Investment (FDI) flowed swiftly into Indonesia and this momentum shall be utilized effectively to improve its greater role in ASEAN and Global levels. Fundamentally, Indonesia has actually considered as an feasibly invested country far before the Fitch Ratings announcing the rating of Indonesia.

One of investments which is mostly attracted by investors is iron and steel industry which has lately increased rapidly in line with the development in building construction such as hotels, office buildings, apartments, real estates, bridges, automotive industries and others.

Although the supply of basic materials in the form of iron pellets becomes main obstacles because they are still imported, Indonesia still has opportunity to develop this steel industry in view of low steel iron consumption per capital in Indonesia if compared with steel iron consumption per capital of other ASEAN countries. Therefore, the government is actively inviting domestic and foreign investors to develop this sector.

PT. Krakatau Steel Tbk (KRAS), a leading steel iron industry in Indonesia, has energetically expanded its business. In 2011, the company was in cooperation with Metallurgical Corporation of China Ltd, a state owned company of China, to construct iron plant using blast furnace with capacity of 1.5 million tons per annum valued Rp. 5.92 trillion.

According to a survey of CDMI that in order to maintain and to improve the position of the company as a leader of national steel market, KRAS will keep on increasing the national steel production to 4.7 million tons per annum up to 2014. This strategic step will require high investment and banking support.

Investigation output of CDMI showed that the performance of KRAS has kept on increasing in the last four years. Therefore, local banks such as Bank Negara Indonesia, Bank Mandiri and Bank Rakyat Indonesia have committed to support the expansion step of KRAS. Besides, there are also foreign banks actively financing the expansion of KRAS including Industrial and Commercial Bank of China (ICBC) and China Bohai Bank (CBB).

In line with swift increase of local steel industry and other supporting industries, CDMI, a leading consulting company in Indonesia, is interested in composing a study with the title of "Study on Potential and Investment Opportunity of IRON STEEL INDUSTRY in Indonesia, 2012".

This study book elaborates the potential of iron ore mining in Indonesia, resources and iron mineral reserves, production of iron ores in Indonesia and the interest of investors to construct iron and steel plant in Indonesia. Besides, it also discusses pig iron products and potential of scrap market.

This book can be directly ordered to our marketing division Mrs. Tina by phone (021) 3193 0108-09 or Fax (021) 3193 0102 and e-mail: marketing@cdmione.com at a price of US\$ 550 for Indonesian Edition and US\$ 600 for English Edition.

Having submitted this offer, we thank you for your cooperation and look forward to hearing your response promptly.

Cordially yours, **P.T. C D M I**

Muslim M. Amin

Potential and Investment Opportunity of STEEL INDUSTRY in Indonesia, 2012" Position :
Position :
Date : / /
Signature :
nglish)
Indonesian edition English edition

.....

LIST OF CONTENTS

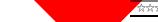
LI	ST OF CONTENTS	i
LI	ST OF TABLES	. iv
1.	INTRODUCTION	1
	1.1. Background	1
	1.2. Objective of Study	2
	1.3. Scope of Study	2
	1.4. Methodology and Data Sources	
2.	REVIEW OF INDONESIAN ECONOMY	4
	2.1. Growth of Indonesian Economy	5
	2.2. Contribution of Mining Sector towards GDP	
	2.3. Development of PMDN and PMA Investment	6
	2.4. Prospect of Indonesian Economy 2012	9
3.	DESCRIPTION OF STEEL-IRON	
	3.1. Definition of Iron	
	3.2. Mining Activity	15
	3.2.1. General Investigation	16
	3.2.2. Exploration of Iron Ores	
	3.2.3. Feasibility Study	20
	3.2.4. Preparation of Production	
	3.2.5 Mining (Mining Exploitation)	
	3.2.6. Reclamation	24
	3.2.7. Processing of Iron Ores into Raw Materials	25
	3.2.8. Marketing	31
	3.2.9. Corporate Social Responsibility (CSR)	. 32
	3.2.10. Mine Closure / Reclamation	
	3.3. Production Process of Steel Metal	
	3.3.1. Production of Pig Iron	
	3.3.2. Production Process of Steel	
	3.3.3. Forming Process and Steel Product Shapes	40
4.	IRON ORE MINING IN INDONESIA	
	4.1. Potential of Resources and Iron Reserve in Indonesia	
	4.2. Location of Resources and Iron Mineral Reserve	
	4.3. Exploration of Iron Ore Mining	50
	4.4. Development of Indonesian Iron Ore Production	
	4.5. Issues of Iron Ore Mining	
	4.5.1. Socialization of Mining Activity	
	4.5.2. Obstacle of Law	56

List of Contents

5.			OF INVESTORS TO DEVELOP IRON ORE AND STEEL PROCESSI INDONESIA	
	FLA	MN1 11N 1	INDONESIA	53
6.	PRO	SPECT	AND MARKET OPPORTUNITY OF INDONESIAN IRON ORES	63
	6.1.	Develo	pment of Iron Ore Market in the World	63
		6.1.1.	World Iron Ore Production	63
		6.1.2.	World Iron Ore Export	66
		6.1.3.	World Iron Ore Import	67
	6.2.	Market	of Indonesian Iron Ore Processed Product	69
		6.2.1.	Indonesian Iron Ore Exporter and Importer	69
		6.2.2.	Market of Pig Iron Product	71
			6.2.2.1. Product Description and Production Process of Pig Iron	71
			6.2.2.2. Domestic Pig Iron Producer	73
			6.2.2.3. Type and Volume of Imported Pig Iron	74
			6.2.2.4. Main Supplier of Iron Ore Basic Materials (Iron Pellet)	76
			6.2.2.5. Development of Pig Iron Export	78
			6.2.2.6. Development of Pig Iron Supply	79
			6.2.2.7. Potential of Pig Iron Market	79
			6.2.2.7.1 Pig Iron Consumption by Casting Industry	
			6.2.2.7.2. Pig Iron Consumption by Steel/Iron Melting Industry.	
			6.2.2.8. Potential of Scrap Market (Used Iron-Steel)	
			6.2.2.8.1. Development of Scrap Supply	86
			6.2.2.8.2. Development of Scrap Import	
			6.2.2.8.3. Development of Scrap Export	
			6.2.2.8.4. Development of Scrap Consumption	
			6.2.2.9. Potential of Sponge Iron Market	
			6.2.2.9.1 Development of Sponge Iron Production	
			6.2.2.9.2. Development of Sponge Iron Import	91
			6.2.2.9.3. Development of Sponge Iron Export	
		\	6.2.2.9.4. Development of Sponge Iron Consumption	
		6.2.3.		
			6.2.3.1. Market Opportunity of Pig Iron	
			6.2.3.2. Market Opportunity of Scrap	
			6.2.3.3. Market Opportunity of Sponge Iron	96
7.	PRO	SPECT	AND MARKET OPPORTUNITY OF INDONESIAN STEEL	
	IND	USTRY	•••• •••••••	98
	7.1.	Conditi	on of Steel Industrial Market	
		7.1.1.	Market Opportunity	
			7.1.1.1. Automotive and Shipping Market	
			7.1.1.2. Support of Banking Sector	
		7.1.2.	Faced Issues	
			7.1.2.1. Raw Material Supply	. 100
			7.1.2.2. Insufficient Gas Supply	

List of Contents ii.

	7.1.3. Competitive Rate	103
	7.1.3.1. Relocation of Steel Plant of China to Indonesia	103
	7.1.3.2. ACFTA Encouraging the Flood of Chinese Steel Import	104
	7.1.3.3. Inexistence Infrastructure Hampering the Construction of Steel	
	Plant	105
	7.2. Clarification of Iron - Steel	106
	7.3. Characteristic of Steel Production in Market	108
	7.4. Producer and Production Capacity of Steel	109
	7.5. Prospect and Market Opportunity of Indonesian Steel Market	113
	7.5.1. Development of World Steel Production	
	7.5.2. Prospect and Market Opportunity of Indonesian Steel Industry	115
	7.5.2.1. Prospect of Slab Industrial Market	116
	7.5.2.2. Prospect of HRC/Plate Industrial Market	120
	7.5.2.3. Prospect and Market Opportunity of Cold Rolled Coil/Sheet (CR)	C/S)
	Industry	122
	7.5.2.4. Concrete Iron CRC Industry	125
_		
8.	CONCLUSION	
	8.1. Economic Development	
	8.2. Potential of Iron Ore Mineral Resources	
	8.3. Potential and Market Opportunity of Iron Ore Mining	
	8.4. Potential and Opportunity of Steel Industry	130



List of Contents iii.