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CHAPTER I

INTRODUCTION

1.1 BACKGROUND

PT Weda Bay Nickel (WBN) is proposing to develop a nickel and cobalt mine and a processing hydrometallurgical plant in Central Halmahera and East Halmahera Regency, North Maluku Province. WBN is the holder of a Seventh Generation Contract of Work (CoW) for nickel mining in an area currently reduced from 120,500 ha to 54,874 ha in Central Halmahera, and East Halmahera Regencies acknowledged by the Government of Indonesia in Presidential Decree No. B.53/PRES/1/1998 dated 19 January 1998 (**Map I-1**).

An ore resource of approximately 345 millions dry tons including 319 millions dry tons already audited and published is shown by explorations currently being done by WBN. This amount is able to support the mining activities of WBN with a target of up to 70,000 tons/year of Nickel and 5,000 tons/year of Cobalt. The current ore resource is able to supply the Weda Bay Nickel Project for 30 years, with the potential for operations to continue for another 20 years or more after that time. Investments by WBN for the mining and the processing of nickel and cobalt ores amount to approximately 4 billion US Dollars. The ore, located in the surface and sub-surface layers of the soil, are found in numerous areas throughout the CoW ore bodies referred to as Bukit Limber (Bukit Limber Timur, Bukit Limber Timur-Laut, Bukit Limber Selatan and Bukit Limber Barat), Tofu Bleuwen, Coastal Deposit (Uni-Uni, Biri-Biri, Nuspera, Ake Sake, Karkar, and Ake Lipe), Bongo Kfan , Ake Jira, Ngowen, Jiguru, and Boki Mekot. Ore for the first 30 years of operation will be mined from Bukit Limber, Coastal Deposit (Nuspera, Ake Sake, Uni-Uni, Biri-Biri, and Karkar), Tofu Bleuwen, Bongo Kfan and Ake Jira.

The mining method will use an open cast surface mining system. Top soil and overburden will be excavated, hauled, and placed on selected areas, then used for mine rehabilitation. Ore will be mined and transported to the processing plant where hydro-metallurgical processes will be used to separate economically valuable nickel and cobalt from other components of the ore. Further refining will produce upgraded nickel and cobalt compounds for export. To support the ore mining and processing, WBN will construct and operate several supporting facilities including limestone quarry, sulphuric acid plant, power plant, permanent accommodation facility, dedicated seaport and dedicated airport. Besides that, development programs planned by WBN will accommodate local interests and human resources developments according to the Renstra (Strategic Development Plan) of Central and East Halmahera Regencies in the Province of North Maluku.

The proposed mining and mineral processing activities will generate positive and negative environmental impacts of varying significance; thus WBN is required to compile the AMDAL (ANDAL, RKL, RPL and Executive Summary) documents, according to Article 26 of the Governmental Regulation of the Republic of Indonesia No. 27 of 1999 regarding the AMDAL (EIA) and also according to the Environmental Minister Decree No.11 of 2006.

The preparation of the AMDAL documents is carried out in accordance with the decree of Minister of Environment No. 08 of 2006 concerning Guidelines for the Preparation of Environmental Impact Analysis.

1.2 *OBJECTIVES AND BENEFITS*

The proposed Weda Bay nickel mining activity will produce nickel as the main product, with cobalt as a by-product. The main use of nickel is in metal alloys (due to mechanical characteristics and corrosion resistance), particularly stainless steel, followed by non-ferrous alloys, foundry and plating. The stainless steel market represents over 60% of the nickel use. Austenitic stainless steel is used to a large extent in chemical and petrochemical industries, pulp and paper production, food industries, transports, consumer goods and construction. Nickel-based alloys can be seen in the aeronautics, nuclear, electronics, electrical, marine, desalinisation and LNG tanker industries.

In terms of nickel ore resources, Indonesia is ranked fourth after Australia, Cuba, and Canada, and is also rated fourth in terms of nickel production, after Russia, Australia, and Canada. Indonesia produced 190 million pounds of nickel in 2006 (Mine Indonesia, 2007) and exported more than 7 million t of Nickel Ores in 2007.

In terms of market trends, nickel growth correlates positively to global industrial production. Historically, between 1990 and 2007, industrial production (IP) has grown 3.4% per year whereas nickel has grown 4.4% per year. During periods of low nickel prices, nickel growth was higher than the average growth (5.7% between 1990 and 1999). During periods of high price, the market noticed lower growth than average (3.7% between 2000 and 2007) and driven primarily by China (+25 %).

For the next 10 years, the nickel growth will continue to be driven by China and the newly industrialised countries. Assuming that the current economic crisis will not last more than 2 years with a rebound in mid 2010, meaning that an average world IP growth of 3% can be achieved on the period 2008-2015, the nickel growth could average between 4 and 4.5 %/year on this period (+7%/year for China and the newly industrialised countries). In the event that the economic crisis lasts longer (end of 2011 or beginning of 2012), the nickel average yearly growth should be lower, probably between 3

and 3.5% (but the recovery after the crisis should also be stronger). A recent McKinsey study commissioned by the Nickel Institute forecasts a growth rate of 4.5% for nickel although a Pariser forecast is more conservative (average growth of 2.8% to 3.9%).

In applying the information above to two key market segments, the projected outlook is the following:

- In stainless steel, nickel growth has been slightly lower than the average in the past decade (impacted by high nickel prices between April 2006 and October 2007). For 2008, with a lower nickel price, reverse substitution is expected and a higher growth rate (5%) is expected.
- For non-stainless steel applications, the long-term forecast is around 4% growth, with a higher growth rate of 6% for batteries (portable and HEV), 4% for high nickel alloys and 2% for plating.

The objective of the Weda Bay Project is to:

- Maintain and increase Indonesia's share of the nickel world market through WBN (Eramet);
- Meet the projected world-wide nickel demand post 2010;
- Contribute to Indonesia through the increase of exports, taxes; and royalty;
- Contribute to -the development of the local economy.

The project will produce nickel as nickel carbonate and cobalt as cobalt sulphide which will be shipped offsite for further treatment. Production will increase progressively up to 70,000 t/yr.

The Weda Bay Nickel Project will generate the following benefits:

- Increase the role of Indonesia as an important world supplier of valuable metals;
- Pioneering in the production of cobalt from laterite nickel ores;
- Provide secure, long term employment for a workforce of around 2,500 – 3,000 employees, of which more than 50% of the labour force can be recruited locally, to fill mainly semi-skilled and operator positions;
- Provide training for local people to improve skills, so as to augment capacities for employment in a variety of project occupations;
- Diversify the economic base of North Maluku Province, thereby decreasing dependence on subsistence agriculture and fishing;

- Provide substantial revenues at the national, regional and local government levels, which can be used for the improvement of basic services and infrastructure;
- Stimulate a wide range of supporting secondary business opportunities such as provision of fresh produce (fishery and agriculture), transportation, accommodation, catering, cleaning, repairs and maintenance.

1.3 LAWS AND REGULATIONS

Current applicable laws and regulations, to the best of our knowledge, which are related to the WBN project and the preparation of AMDAL Document are as follows:

<i>Law</i>	<i>Rationale</i>
Acts of the Republic of Indonesia	
No. 5 Year 1960 regarding Basic Provisions of Agrarian Regulation. (State Gazette of the Republic Indonesia Year 1960 No 104, Supplement to State Gazette of the Republic of Indonesia No 2043)	The project land usage should refer with this regulation.
No. 12 Year 1964 on the Job Dismissal in Private Companies (State Gazzete of the Republic of Indonesia No. 93, 1964 and Supplement to State Gazette of the Republic of Indonesia No. 2686)	Job dismissal of workers in this project may happen when the project activities decrease or closure of mining activities.
No. 11 Year 1967 regarding General Provision of Mining (State Gazette of the Republic of Indonesia Year 1967 No 22)	All mining activities in Indonesia must refer to this regulation as an overview regarding mining activity.
No. 5 Year 1990 regarding Natural Resource Conservation and Ecosystem (State Gazette of the Republic Indonesia Year 1990 No 49)	The project proponent needs to refer to this regulation when dealing with natural resource conservation and ecosystems within the project area.
No. 3 Year 1992 regarding the Social Security of Workers (State Gazette of the Republic of Indonesia Year 1992 No.14, Supplement to State Gazette of the Republic Indonesia No. 3468)	WBN, which will employ workforces, should follow social security of workers as stated in this acts.
No. 14 Year 1992 regarding traffic and road transportation (State Gazette of the Republic of Indonesia Year 1992 No 49)	The project proponent must refer to this regulation regarding all transportation aspects of the project.
No. 23 Year 1992 regarding Health (State Gazette of the Reublic of Indonesia Year 1992 No.100 and Supplement to State Gazette of the Republic Indonesia No. 3495)	Health programs implemented by WBN shall refer to this act.
No. 5 Year 1994 regarding Ratification on UN convention relating Biodiversity (State Gazette of the Republic of Indonesia Year 1994 No. 41)	Preservation of biodiversity around project area shall refer to this act.
No. 6 Year 1994 regarding Ratification on the UN Convention on Climate Change (State Gazette of The Republic of Indonesia Year 1994 No. 42)	Project activities may potentially generating greenhouse gasses, hence shall refer to this convention.
No. 23 Year 1997 regarding Environmental	Environmental matters related to the

<i>Law</i>	<i>Rationale</i>
Management (State Gazette of the Republic of Indonesia Year 1997 No 68, supplement to State Gazette of the Republic of Indonesia No. 3699)	project activities shall comply to this act
No. 41, 1999 on Forestry (State Gazette of the Republic Indonesia Year 1999 No. 167, supplement to State Gazette of the Republic Indonesia No. 3888)	WBN COW area is located in forest area; therefore, forest area utilization for project activities shall comply with this act.
No. 46 Year 1999 regarding the Formation of the Province of North Maluku	By this law Maluku Province is divided into North Maluku and Maluku Provinces, hence WBN project is located in the newly established province.
No. 01 Year 2003 regarding the Expansion of the Regency of North Halmahera, South Halmahera, East Halmahera, the Sula Islands, and the City of Tidore Islands in the Province of North Maluku.	All WBN COW previously was located at Central Halmahera Regency, referring to this law WBN COW area now is partly located at Central Regency and partly at East Halmahera Regency.
No. 13 Year 2003 regarding the Workforce	WBN will recruit workforces during project construction and operation hence workforce related matter will refer to this law.
No. 7 Year 2004 regarding Water Resources (State Gazette of the Republic of Indonesia year 2004 No 32, supplement to State Gazette of the Republic of Indonesia No. 4377)	Water resources use related to the project activities shall comply to this act.
No. 17 Year 2004 regarding the Enactment of the Kyoto Protocol to the United Nations Framework Convention on Climate Change (State Gazette of the Republic of Indonesia Year 2004 No.72, supplement to State Gazette of the Republic of Indonesia No. 4403)	Project activities may potentially generating greenhouse gasses, hence shall refer to this protocol
No. 19 Year 2004 regarding the Amendment of Act No. 41 Year 1999 on Forestry (State Gazette of the Republic of Indonesia Year 2004 No. 90, supplement to State Gazette of the Republic of Indonesia No. 4374)	Project activities are carried out in the forest area, so that forest area utilization by this project utilization refer to this act.
No. 32 Year 2004 regarding the Regional Government	WBN shall consider this act especially in acknowledging the authority of the regional government
No. 33 Year 2004 regarding the Balance of Funds between the Central Government and the Regional Government	WBN shall consider this act concerning tax related matter to central and regional governments
No. 25 Year 2007 regarding Investments	Weda Bay Project is a foreign investment thus the project shall comply to this act
No. 26 Year 2007 regarding Spatial Planning (State Gazette of the Republic of Indonesia Year 2007 No. 68)	The project location shall be inline with the existing spatial plannings
Government Regulation	
No. 32 Year 1969 regarding Implementation of Act No. 11 Year 1967 on General Provision of Mining (State Gazette of the Republic of Indonesia No. 22 Year 1969)	WBN mining concession and operation shall comply with this regulation
No. 35 Year 1991 regarding Rivers (State Gazette of the Republic Indonesia No. 44, Supplement to State Gazette of the Republic of Indonesia No. 3445)	Water for processing plant and domestic water use will be sourced partly from nearby river; therefore, the utilization of water by the project shall refer this regulation.

<i>Law</i>	<i>Rationale</i>
No. 79 Year 1992 regarding Ammendment of Government Regulation No 32 Year 1969 regarding Implementation of Law No. 11 Year 1967 regarding General Provision of Mining (State Gazette of the Republic Indonesia Year 1992 No. 130, Supplement to State Gazette of the Republic Indonesia No. 3510)	WBN mining concession and operation shall comply with this regulation
No. 7 Year 1999 regarding Flora and Fauna Conservation (State Gazette of the Republic Indonesia Year 1999 No. 14, Supplement to State Gazette of the Republic of Indonesia No 3803)	Conservation of protected flora and fauna within WBN project area shall refer to this regulation.
No. 41 Year 1999 regarding Air Pollution Control (State Gazette of the Republic of Indonesia Year 1999 No 86, Supplement to State Gazette of the Republic of Indonesia No 3853)	Weda Bay project potentially emits gaseous pollutant that may influence the ambient air quality hence control of air pollution by Weda Bay shall refer to this regulation
No. 18 Year 1999 regarding Management of Hazardous and Toxic Wastes (State Gazette of the Republic of Indonesia Year 1999 No 31, Supplement to State Gazette of the Republic of Indonesia No. 3815)	The project will produce non-process wastes including the hazardous and toxic wastes; therefore, management of the wastes shall refer to this regulation.
No. 85 Year 1999 regarding Ammendment to Government Regulation No. 18 Year 1999 regarding Management of Hazardous and Toxic Waste (State Gazette of the Republic of Indonesia Year 1999 No 190, Supplement to State Gazette of the Republic of Indonesia No. 3910)	The project will produce non-process wastes including the hazardous and toxic wastes; therefore, management of the wastes shall refer to this regulation.
No. 27 Year 1999 regarding Environmental Impact Assessment (AMDAL) (State Gazette of the Republic of Indonesia Year 1999 No 59, Supplement to State Gazette of the Republic of Indonesia No. 3838)	The project is considered as to generate significant impact to environment, therefore WBN shall prepare AMDAL document in accordance with this regulation.
No. 25 Year 2000 regarding Government Authority and the Authority of Province as a Region with Autonomy (State Gazette of the Republic of Indonesia Year 2000 No. 54, Supplement to State Gazette of the Republic of Indonesia No. 3952).	Administration of the project to government should consider authority portions of local/ regional and central government as stipulated by this regulation.
No. 4 Year 2001 regarding Damage Control and/or Environmental Pollution relating to Forest and/or Land Fires (State Gazette of the Republic of Indonesia Year 2001 No. 10, Supplement to State Gazette of the Republic Indonesia No. 4076)	The project is located in forest area where forest fire might occur. Forest fire protection and control shall refer to this regulation
No. 69 Year 2001 regarding Port (State Gazette of the Republic of Indonesia Year 2001 No. 127, Supplement to State Gazette of the Republic of Indonesia No. 4145)	The project will construct and operate a dedicated port therefore these activities shall refer to regulation.
No. 70 Year 2001 regarding Airports (State Gazzete of the Republic Indonesia No. 128, 2001, Supplement to State Gazzeteof the Republic of Indonesia No. 4146)	The project constructs and operates a dedicated airstrip therefore these activities shall refer to regulation
No. 74 Year 2001 regarding Hazardous and Toxic Material Management (State Gazette of	Project activities will use chemicals therefore management of the chemicals

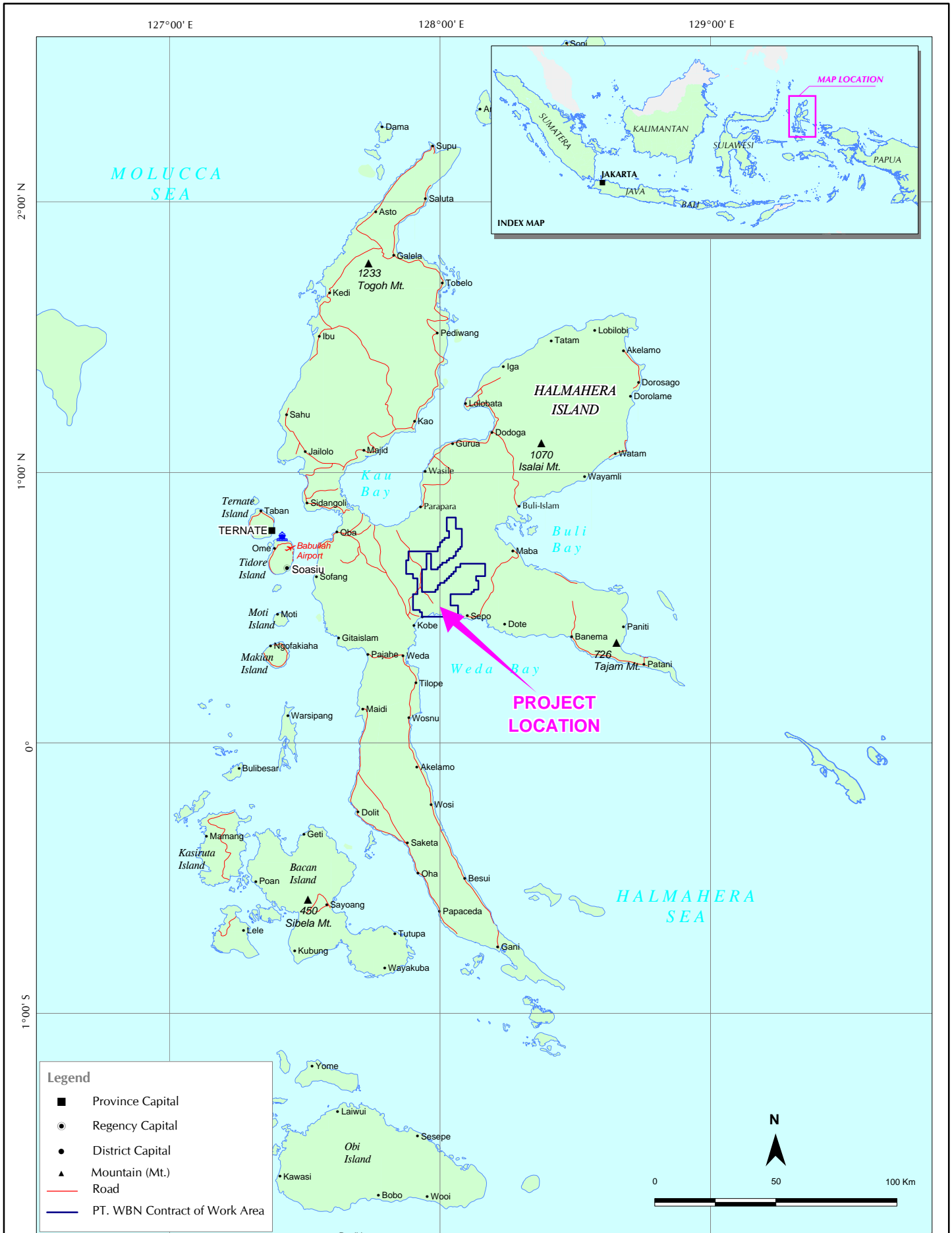
<i>Law</i>	<i>Rationale</i>
the Republic of Indonesia Year 2001 No. 138, Supplement to State Gazette of the Republic of Indonesia No. 4153)	(transportation, handling, and storage) shall comply to this regulation.
No. 75 Year 2001 regarding Second Ammendment to Government Regulation No. 32 Year 1996 regarding Implementation of Law No. 11 Year 1967 regarding General Provisions of Mining (State Gazette of the Republic of Indonesia Year 2001 No. 141, Supplement to State Gazette of the Republic of Indonesia No. 4154)	WBN mining concession and operation shall comply with this regulation
No. 82 Year 2001 regarding Water Quality Management and Water Pollution Control (State Gazette of the Republic of Indonesia Year 2001 No. 153, Supplement to State Gazette of the Republic of Indonesia No. 4161)	Project activities may potentially impact to water quality; therefore, the project shall maintain the ambient water quality within the standard as stipulated in this regulation.
No. 16 Year 2004 on Land Use (State Gazzete of the Republic of Indonesia No. 45, 2004, State Gazzete of the Republic of Indonesia No. 4385)	Land use, land usage and land acquisition by project activities shall refer to this regulation.
No. 2 Year 2008 regarding the Type and Tariff for Non Tax State's Income which Comes from Utilization of Forest Area for Development Purpose outside Forestry Activities valid in Department of Forestry (State Gazette year 2008 No. 15, Supplement to the State Gazette of the Republic of Indonesia No. 4813)	Utilization of forest area by WBN activities shall be in accordance with to this regulation
No. 26 Year 2008 regarding the National Spatial Planning (State Gazette Year 2008 No.28, Supplement State Gazette of the Republic of Indonesia No. 4833)	The location of the activities must be in line with the existing spatial plannings.
Presidential Decree	
No. 32 Year 1990 regarding Protected Forest Management.	Appropriate management is required wherever Protected Forest is present .
No. B.53/PRES/1/1998 dated 19 January 1998 regarding Agreement on 72 Contract of Work for General Mining, 7 th Generation.	WBN shall refer to this decree
No. 125 Year 1999 on Explosive Materials	WBN uses explosives in the limestone mining activities , therefore transportaion, handling, usage and storage shall comply to this regulation.
No. 150 Year 2000 regarding Development of Integrated Regional Economy.	Project is conducted in a region classified as a development area for integrated regional economy.
No. 41 Year 2004 regarding Permits and Agreements for Mining in Forest Areas.	WBN is one of 13 (thirteen) permits or agreement on mining location which have been exist before the application of Laws No. 41 Year 1999 regarding Forestry that can continue their activities until the expiration of permits or agreement.
Ministerial Joint Decree	
Letter of Joint Decree Minister of Public Work with Minister of Mining and Energy No. 04/KPTS/1991, 0076K/101/MPE/1991 regarding Water Use for Mining Activities including Petroleum and Natural Gas and	Water for processing plant and domestic water use will be sourced partly from nearby river; therefore, the utilization of water by the project shall refer this decree.

<i>Law</i>	<i>Rationale</i>
Geothermal.	
Minister of Energy and Mineral Resources	
Decree No. KEP-1158.K/008/M.PE/1989 regarding Provision of Environmental Impact Assessment in Mining and Energy Business.	WBN requires to prepare EIA document referring to this decree in conjunction with other relevant regulations
Decree No. KEP-103.K/008/M.PE/1989 regarding Supervision on Environmental Management and Monitoring Plan in the Field of Mining and Energy.	Environmental Management and Monitoring Plan implementation by WBN will be inspected by assigned Mine Inspector
Decree No. 555.K/26/M.PE/1995 regarding Safety and Occupational Health in General Mining	Safety and Occupational Health aspects of the WBN mine operations shall comply to this decree.
Decree No. KEP-1211.K/008/M.PE/1995 regarding Prevention and Control on Destruction and Environmental Pollution in General Mine Business.	WBN project should prevent and control of adverse impacts from project construction and operations referring to this decree.
Decree No. 1261.K/25/M.PE/1999 regarding Supervision on General Mining Production.	Ore and intermediate-metals production by WBN operation will be inspected by Department of Mining or its assignee referring to this decree.
Decree No. 1457K/28/MEM/2000 regarding Technical Guidelines of Environmental Management in Mine and Energy Sector.	EIA preparation by WBN shall refer to this decree
No. 18 Year 2008 regarding Reclamation and Mine Closure	Reclamation plan, implementation and reporting of reclamation; mine closure plan, implementation and reporting of mine closure; reclamation guarantee, and mine closure guarantee of WBN project shall refer to this regulation.
Minister of Agriculture	
Decree No. 54/kpts/UM/2/1972 regarding Tree Species in Forest which are Protected.	Inventory and study of protected flora in the planned open area for WBN project activities refer to this decree.
Minister of Forestry	
Decree No. 261/kpts-IV/1990 regarding Addendum to Appendices on Decree of Minister of Agriculture No. 54/kpts/UM/2/1972 (Trees Species in Forest which are Protected)	Inventory and study of protected flora in the planned open area for WBN project activities refer to this decree
No. 301/kpts-II/1991 regarding Inventory of Wildlife Protected by Law or Part of Wildlife Maintained by Individual.	Inventory and study of protected wildlife in the planned open area for WBN project activities refer to this decree
Decree No. 464/kpts-II/1995 regarding Management of Protected Forest	Small part of WBN concession area is located in the protected forest. Management of this protected forest in WBN concession area shall refer to this decree.
Decree No. 146/kpts-II/1999 regarding Guidelines of Reclamation of Mined Land within Forest Area.	Reclamation of ex-mined area of WBN that is located in the forest area shall refer to this decree in conjunction with others relevant regulations.
Decree No. 415/kpts-II/1999 regarding the Map of Forest Areas and Water Bodies of the Province of Maluku	WBN COW area is located in forest areas, therefore, shall consider this decree.
Regulation No. : P. 43/Menhut-II/2008	Guideline for borrow and use of the

<i>Law</i>	<i>Rationale</i>
regarding Guideline for Borrow and Use of Forestry Region	forest area for mining activities outside forestry activities generally refers to the stipulations contained in this regulation.
Regulation No. P.56/Menhut-II/2008 regarding Guideline to Determine Area Disturbed and Reclaimed and Revegetated for Calculating State Non-Tax Income of the Use Forest Area	Tax payment of the disturbed and reclaimed/revegetated of forest area by the activities shall refer to this regulation.
Minister of Public Works	
Decree No. 45 Year 1990 regarding Water Quality Control in Water Resources.	Control and monitoring of water quality from the project activities shall refer to this regulation.
Decree No. 48 Year 1990 regarding Water Management and Water Resources on River Watershed.	There are many rivers across WBN project area, the management of the rivers shall refer to this regulation.
Decree No. 49 Year 1990 regarding Procedure and Permit to Use Water and/or Water Resources.	Considering that WBN plan to use water sources for processing and domestic purposes, therefore the use of such water resources shall refer this regulation.
Decree No. 63 Year 1993 regarding River Boundaries, River Use Area, River Controlled Area, and Ex-River Area	Utilization of the rivers shall consider this regulation.
Minister of Transportation	
Decree No. 68 Year 1993 regarding Land Transportation of Materials.	Public road utilization by WBN project to transport materials shall consider this regulation.
Decree No. KM 55 Year 2002 on the Management of Special Ports.	WBN builds and operates dedicated ports for loading and unloading raw materials and exports product; therefore, shall refer this regulation.
Minister of Environment	
Decree No. KEP-13/MENLH/3/1995 regarding Emission Standard for Stationary Sources.	Stationary gas emission from WBN activities shall refer with this decree.
Decree No. KEP-51/MENLH/10/1995 regarding Effluent Standards for Industrial Activities	Liquid waste will be generated from the project, which should be managed in order to comply with environmental standards.
Decree No. KEP-45/MENLH/II/1996 regarding Air Pollutant Index.	Air pollution should be managed and monitored. The monitoring results should be classified based on the Air Pollution Index.
Decree No. KEP-48/MENLH/11/1996 regarding Noise Standard.	Noise should be managed and monitored in order to meet prevailing environmental noise standards.
Decree No. KEP-49/MENLH/II/1996 regarding Level of Vibration Standard.	Vibration should be managed and monitored in order to meet prevailing vibration standards.
Decree No. 40 Year 2000 regarding Guidelines of EIA Evaluation Commission	EIA documents should be evaluated by EIA commission according to this guideline.
Decree No. 51 Year 2004 regarding Marine Water Quality Standards.	Effluent disposal to marine will be subject to marine water quality standards.
Decree No. 45 Year 2005 regarding Guidelines	Environmental management and

<i>Law</i>	<i>Rationale</i>
of RKL and RPL Reporting.	monitoring plan (RKL-RPL) implementation should be reported regularly following guideline stipulated in this decree.
Regulation No. 8 Year 2006 regarding Guidelines to Prepare Environmental Impact Assessment.	This regulation, which supersedes previous guidelines such as Decree No. 9 of 2000, provides guidelines for compilation of the KA, ANDAL, RKL, RPL and Executive Summary documents.
Regulation No. 9 Year 2006 regarding Effluent Standards for Mining Activities of Nickel Ore.	Effluent (water discharge) from ore mining and ore processing of WBN activities shall comply to this regulation.
Regulation No. 11 Year 2006 regarding Sort of Business and/or Activities Plan that Require to Conduct Environmental Impact Assessment.	The project is considered as to generate significant impact to environment, therefore WBN shall prepare AMDAL document in accordance with this regulation.
Regulation No. 12 Year 2006 regarding Terms and Permitting Procedures for Effluent Disposal to the Marine Environment.	Effluent water discharge to marine environment by WBN shall refer to this regulation.
Head of Impact Control Agency Decree	
No. 056/BAPEDAL/03/1994 regarding Guidelines to Determine Significance Scale of Environmental Impacts.	The scale of impacts should be clearly stated in the environmental impact assessment documents referring to this decree.
No. KEP-01/BAPEDAL/09/1995 regarding Procedures and Requirements for Storage and Collection of Hazardous and Toxic Waste.	Hazardous waste generated by the project should be stored and collected in accordance with this decree.
No. KEP-05/BAPEDAL/09/1995 regarding Symbol and Label of Hazardous Waste.	Hazardous wastes generated by the project should be labeled and signed for in accordance with this decree.
No. KEP-205/BAPEDAL/07/1996 regarding Technical Guideline to Manage Air Pollution of Stationary Sources.	Gas emissions from stationary sources by the project activities should be managed and monitored referring to this decree to meet the prevailing standards .
Minister of Health Decree	
No. 416/MENKES/PER/IX/1990 regarding Requirements and Supervision of Water Quality.	Clean water used by the project for employee's domestic use should be monitored to meet clean water standard as stipulated in this decree.
No. 907/MENKES/SK/VII/2002 regarding Requirements and Supervision of Drinking Water.	Drinking water consumed by project's employees should be managed and monitored in order to meet drinking water quality standard as stipulated in this decree.
Director General of General Mining Decree	
Decree of the Director General of General Mining No. 316.K/2016/DDJP/1990 regarding Guideline for Storage of Explosives for General Mining Activities.	Storage of explosives to be used for the limestone mining activities by WBN shall refer to this decree.
No. 693.K/008/DDJP/1996 regarding Guidelines to Control Erosion in General Mining.	Project proponent should prevent and control erosion as a result of mining activities referring to guidelines stipulated in this decree.
Decree of Director General of Land Transportation	
No. SK. 726/AJ.307/DRJD/2004 on Technical	If the project activities mobilized heavy

<i>Law</i>	<i>Rationale</i>
Guide for the Operation of Heavy Equipment Transportation on the Road.	equipment on the public road; its implementation shall refer to this decree.
Provincial Regulation of North Maluku	
No. 2 Year 2003 regarding the Spatial Plannings of the Province of North Maluku Year 2003 - 2018	The project location and activities shall be inline with the existing spatial plannings as stipulated in this decree
No. 5 Year 2005 regarding the Management of Commercial Mining .	Mining activities of WBN shall refer to this decree.
No. 9 Year 2006 regarding the Management and Control of Environmental Impacts in the Province of North Maluku	The environmental managements and control of environmental impact of WBN activities shall refer to this decree
No. 10 Year 2006 regarding the Standards for Industrial Wastewater and other Businesses in the Province of North Maluku	Wastewaters generated by WBN activities shall comply with this decree
Regulation/Instruction of the Governor of North Maluku	
No. 9 Tahun 2005 regarding Separation of Forest and Aquatic Area and Change of Their Function as well as Forest Area Status in North Maluku Province.	WBN COW area is located in forest areas, therefore shall consider this regulation.
Regulation No. 4 Year 2005 regarding the Intermediate Work Plan/ <i>Rencana Kerja Jangka Menengah Daerah (RKJMD)</i> of the Province of North Maluku Year 2005-2007	The mine activities of WBN refer to the local work program for medium term (<i>RKJMD</i>) of the Province of North Maluku
Regulation No. 10 Year 2007 regarding the Operational Guidelines in the Involvement of the Local Community and the Publication of Information in the EIA (AMDAL) Process	WBN's EIA (AMDAL) preparation, appraisal process and its disclosure to public shall refer to this decree.



MAP I - 1 PROJECT LOCATION