



中國有色礦業有限公司

China Nonferrous Mining Corporation Limited

(Incorporated in Hong Kong with limited liability under the Companies Ordinance)

Stock Code: 1258

2020 ANNUAL REPORT



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General view of NFCA Southeast Mine

CORPORATE INFORMATION

REGISTERED OFFICE

Unit 1303, 13/F, Austin Tower
22-26 Austin Avenue
Tsimshatsui
Kowloon, Hong Kong

PRINCIPAL PLACE OF BUSINESS IN ZAMBIA

32 Enos Chomba Road
Kitwe, Zambia

PRINCIPAL PLACE OF BUSINESS IN THE DRC

Lubumbashi
Katanga Province
Congo (DRC)

COMPANY'S WEBSITE

www.cnmcl.net

STOCK CODE

01258

DIRECTORS

Executive Directors

Mr. Jinjun Zhang (*Chairman and President*)
(re-designated as Executive Director and appointed as President on 14 October 2020, appointed as Chairman on 8 January 2021)

Mr. Xiaowei Wang

Mr. Chunlai Wang (*Vice President*)

Mr. Tongzhou Wang (*Chairman*)
(resigned on 4 September 2020)

Mr. Wei Fan (*Vice President*)
(appointed on 24 March 2020 and resigned on 14 October 2020)

Mr. Lin Zhang (*President*)
(resigned on 14 October 2020)

Mr. Kaishou Xie (*Vice President*)
(resigned on 24 March 2020)

Independent Non-Executive Directors

Mr. Chuanyao Sun

Mr. Jingwei Liu

Mr. Huanfei Guan



Kambove Mining Leach Plant

CORPORATE INFORMATION (CONTINUED)

THE COMMITTEES OF THE BOARD

Audit Committee

Mr. Jingwei Liu (*Chairman*)
Mr. Chuanyao Sun (appointed on 20 November 2020)
Mr. Huanfei Guan
Mr. Jinjun Zhang (resigned on 14 October 2020)

Nomination Committee

Mr. Chuanyao Sun (*Chairman*)
Mr. Jinjun Zhang
Mr. Jingwei Liu

Remuneration Committee

Mr. Huanfei Guan (*Chairman*)
Mr. Jinjun Zhang
Mr. Chuanyao Sun

Compliance Committee

Mr. Jinjun Zhang (*Chairman*)
(appointed on 20 November 2020)
Mr. Chuanyao Sun
Mr. Huanfei Guan
Mr. Tongzhou Wang (*Chairman*)
(resigned on 4 September 2020)

COMPANY SECRETARIES

Mr. Dayong Yang (appointed on 27 April 2020)
Mr. Aibin Hu (resigned on 1 April 2020)
Ms. Man Yi Wong

LEGAL ADVISER

Baker & McKenzie
14/F., One Taikoo Place
979 King's Road
Quarry Bay
Hong Kong

AUDITOR

Deloitte Touche Tohmatsu
Certified Public Accountants and Registered PIE Auditor
35/F., One Pacific Place
88 Queensway
Hong Kong

HONG KONG SHARE REGISTRAR

Computershare Hong Kong
Investor Services Limited
Shops 1712–1716, 17th Floor
Hopewell Centre, 183 Queen's Road East
Wanchai, Hong Kong

CHAIRMAN'S STATEMENT

Chairman of the Board
and President
Jinjun Zhang



CHAIRMAN'S STATEMENT (CONTINUED)

Dear Shareholders,

I would like to take this opportunity to extend my heartfelt gratitude to the Shareholders and all sectors of the society for their care, support and assistance to China Nonferrous Mining Corporation Limited (hereinafter referred to as the “Group” or the “Company”), and to the management and the staff for their contribution to the operation and management and the reform and development of the Group!

In 2020, the global supply chain and world economy was hard hit by the unexpected outbreak and spread of COVID-19 pandemic worldwide, which posed great challenge to the production and operation activities. Under the correct leadership of the Board of the Company, with the joint effort of the enterprises funded by the Group, various work arrangement and requirements on pandemic prevention and control were strictly implemented across the Company. The Company took various measures and rose to the challenge. It worked for production and operation, meanwhile for pandemic prevention and control, attaching equal importance to such two aspects. It strengthened its effort to increase efficiency through capacity expansion, cost reduction, innovation and quality improvement; spared no effort to expand market externally and improve management internally, achieving remarkable results in production guarantee, production maintaining and production increase, together with the year-on-year increase in the price of copper, all contributing to the satisfactory performance of the Company. During the year, the Group produced 257,219 tonnes of the blister copper and copper anodes, representing an increase of 9.5% year-on-year; 793,221 tonnes of sulphuric acid, representing an increase of 13.3% year-on-year; and 115,904 tonnes of copper cathodes, representing an increase of 11.0% year-on-year. The Group recorded revenue of US\$2,597.2 million, representing an increase of US\$588.5 million year-on-year; profit attributable to the owners of the Company of US\$125.0 million, and the consolidated basic earnings per share of approximately US ¢ 3.58. Significant progress was made in its key projects: the Integrated Exploration and Construction Project of the Chambishi Southeast Mine was put into operation in the third quarter of 2020; the Reconstruction and Expansion Project of CNMC Huachin Mabende which has a designed production output 45,000 tonnes of copper cathodes per annum was completed and put into operation in the third quarter of 2020; the construction of the copper concentrate (dry) smelting project of Lualaba Copper Smelter with a designed processing capacity of 400,000 tonnes per annum was completed and put into operation, whose sub-system with a designed capacity of copper-cobalt amounting to 10,000 tonnes per annum was completed in the third quarter in 2020; the preparations work for the construction of the Integrated Exploration and Construction Project of Kambove Mining which has a planned production capacity of 28,000 tonnes of copper cathode per annum was totally completed, and the construction of that has commenced in January 2020, the construction of the project is progressing according to schedule and is expected to be completed and put into operation in the third quarter of 2021.

CHAIRMAN'S STATEMENT (CONTINUED)

Looking forward to 2021, despite of the continuing complicated situation and the coexisting opportunities and challenges, the opportunities far outweigh challenges for the Group, and the year 2021 will be another encouraging one with plenty of opportunities. Globally, months of continuous pandemic combating effort has led to that the goals and strategies of countries to prevent and control the pandemic are tending towards stability. With mass COVID-19 vaccination campaign underway, the world may gradually escape the gloom caused by the pandemic, and it is expected to be on the way to recovery. In 2021, the underproduction and short supply of copper may still be a serious problem, the demand for nonferrous metal by strategic industries such as new energy sector is growing, together with the rising demand, which contributes to the imbalance between supply and demand and will sustain the copper price.

The Group will stick to the central theme of quality development, with innovation as the fundamental driver, make overall planning for the continuous implementation of the development strategy of building itself into a fast growing, leading vertically integrated copper-cobalt producer, and strive for resources through multiple channels, such as increasing geological exploration and cooperation with third parties, focusing on South and Central Africa and their neighbouring countries and regions which currently boast resource advantages; it will continuously optimize its value chain management, promote the integration of production, supply and marketing in the region, and actively apply and promote advanced and applicable technologies such as digitalisation of mines and copper pyrometallurgy and hydrometallurgy and cobalt extraction, so as to improve the intensive and operational management level of the Company; efforts will be made to comprehensively advance the construction of compliance and risk management systems and mechanisms, continuously improve the level of corporate governance, so as to accelerate the building of itself into a globally competitive mine enterprise.

The Group will continue to implement the development vision of “innovation, coordination, eco-friendliness, openness, sharing”. We also pay high attention to the safety of production, environmental protection and the sustainable use of resources, strictly abide by employment regulations and governance practices, improve workplace conditions, and properly handle concerns of stakeholders such as suppliers and communities, so as to pursue win-win cooperation and harmonious development.

Jinjun Zhang

Chairman of the Board and President

China Nonferrous Mining Corporation Limited

Beijing, 30 March 2021

RESULTS HIGHLIGHTS

OPERATING RESULTS

In 2020, the Group recorded revenue of US\$2,597.2 million, representing an increase of US\$588.5 million from US\$2,008.7 million in 2019. In 2020, the Group recorded profit attributable to owners of the Company of US\$125.0 million, decreased by US\$9.9 million from US\$134.9 million in 2019.

CHANGES IN PRODUCT OUTPUT

In 2020, the Group accumulatively produced 115,904 tonnes of copper cathodes, representing an increase of 11.0% year-on-year; 257,219 tonnes of blister copper and copper anodes, representing an increase of 9.5% year-on-year; 191 tonnes of cobalt contained in cobalt hydroxides, representing an increase of 81.9% year-on-year; 793,221 tonnes of sulphuric acid, representing an increase of 13.3% year-on-year; 17,102 tonnes of liquid sulphur dioxide; and the processed copper products by the Group amounted to 27,389 tonnes.

STEADY PROGRESS IN PROJECT DEVELOPMENT

The Integrated Exploration and Construction Project of the Chambishi Southeast Mine of NFCA designed ore processing capacity of 3,300,000 tonnes per annum, copper concentrates of 261,000 tonnes per annum (including 58,900 tonnes of copper contained in copper concentrates). The construction of the project has been completed, and the commencement of production took place at the third quarter of 2020.

The Strip Mine Project at the Extended Section of Roan of Luanshya has a designated capacity of one million tonnes of quality oxide copper mine per annum and an output of 20,000 tonnes of copper cathodes. The developmental stripping for the project commenced in May 2020, and was completed in 2020 with an expense of US\$3,059,600.

The Reconstruction and Expansion Project of CNMC Huachin Mabende has a designated production output 45,000 tonnes of copper anodes per annum and a total investment of US\$18.91 million. The construction of the project has been completed, and the project was put into production at the third quarter of 2020.

Lualaba Copper Smelter has two projects under progress, namely the “Blister Copper Smelting Project” and the “Cobalt Recycling System Project”.

- The Blister Copper Smelting Project is a copper concentrate (dry) smelting project with an annual capacity of 400,000 tonnes. The construction of the project has been completed, and the commencement of production took place at the second quarter of 2020.
- The Cobalt Recycling System Project is a sub-system of the copper concentrates (dry) and blister copper smelting project with an annual capacity of 400,000 tonnes. The construction of the project was completed at the third quarter of 2020.

The Integrated Exploration and Construction Project of Kambove Mining has a planned annual production capacity of 28,000 tonnes of copper cathodes and 978 tonnes of cobalt contained in crude cobaltous hydroxide. The construction of the project commenced in January, 2020 and as at the end of 2020, the accumulative investment completed was US\$116,968,500.

MANAGEMENT DISCUSSION AND ANALYSIS

FINANCIAL REVIEW

Results of Operations

The following table sets forth sales volume, average selling price, revenue and percentage contribution to total revenue of the products of the Group during the years indicated.

	For the year ended 31 December							
	2020		Percentage		2019		Percentage	
	Sales Volume ⁽¹⁾	Average Selling Price (US\$ per tonne)	Revenue (US\$'000)	of Total Revenue (%)	Sales Volume ⁽¹⁾	Average Selling Price (US\$ per tonne)	Revenue (US\$'000)	of Total Revenue (%)
	(Tonnes)				(Tonnes)			
Blister copper and copper anodes	288,492	6,176	1,781,780	68.6	235,119	5,719	1,344,641	67.0
Copper cathodes	117,457	5,644	662,897	25.5	104,324	5,307	553,672	27.6
Cobalt contained in cobalt hydroxide	143	21,035	3,008	0.1	–	–	–	–
Sulphuric acid	534,004	220	117,689	4.5	493,586	224	110,406	5.4
Liquid sulphur dioxide	17,038	917	15,629	0.6	–	–	–	–
Copper products processing services ⁽²⁾	27,389	592	16,210	0.7	–	–	–	–
Total			2,597,213	100.0			2,008,719	100.0

Notes: (1) The sales volumes of blister copper and copper anodes, copper cathodes are on a contained-copper basis.

(2) The copper products processing services refer to the processing and production of copper products by the Group's smelters as entrusted by the external enterprises and the Group receives processing fees from these enterprises.

Revenue

The revenue of the Group increased by 29.3% from US\$2,008.7 million in 2019 to US\$2,597.2 million in 2020. In 2020, the Group's revenue generated from blister copper and copper anodes, copper cathodes and sulphuric acid accounted for 68.6%, 25.5% and 4.5%, respectively, of the total revenue.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

The revenue from blister copper and copper anodes increased by 32.5% from US\$1,344.6 million in 2019 to US\$1,781.8 million in 2020, mainly due to the increase in global copper prices and the increase in sales volume.

The revenue from copper cathodes increased by 19.7% from US\$553.7 million in 2019 to US\$662.9 million in 2020, mainly due to the increase in global copper price, and the increase in sales volume as compared with the same period last year.

The revenue from sulphuric acid increased by 6.6% from US\$110.4 million in 2019 to US\$117.7 million in 2020, mainly attributed to the significant increase in sales volume as compared with the same period last year.

Cost of Sales

The following table sets forth the costs of sales, unit costs of sales, gross profits and gross profit margins of the products of the Group during the periods indicated.

	For the year ended 31 December							
	2020				2019			
	Cost of sales	Unit cost of sales	Gross profit	Gross profit margin	Cost of sales	Unit cost of sales	Gross profit	Gross profit margin
	(US\$'000)	(US\$ per tonne)	(US\$'000)	(%)	(US\$'000)	(US\$ per tonne)	(US\$'000)	(%)
Blister copper and copper anodes	1,532,466	5,312	249,314	14.0	1,211,160	5,151	133,481	9.9
Copper cathodes	389,676	3,318	273,221	41.2	314,744	3,011	238,928	43.1
Cobaltous hydroxide	2,558	17,888	450	15.0	–	–	–	–
Sulphuric acid	27,400	51	90,289	76.7	14,342	29	96,064	87.0
Liquid sulphur dioxide	1,734	102	13,895	88.9	–	–	–	–
Copper products processing services								
<i>Note</i>	13,937	509	2,273	14.0	–	–	–	–
Total	1,967,771		629,442	24.2	1,540,246		468,473	23.3

Note: The copper products processing services refer to the processing and production of copper products by the Group's smelters as entrusted by the external enterprises and the Group receives processing fees from these enterprises.

The cost of sales of the Group increased by 27.8% from US\$1,540.2 million in 2019 to US\$1,967.8 million in 2020, primarily due to the increase in sales volume of copper products.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

The cost of sales in respect of blister copper and copper anodes increased by 26.5% from US\$1,211.2 million in 2019 to US\$1,532.5 million in 2020, primarily due to the increase in the volume of sales as compared with the same period last year.

The cost of sales in respect of copper cathodes increased by 23.8% from US\$314.7 million in 2019 to US\$389.7 million in 2020, primarily due to the increase in sales volume as compared with the same period last year.

The cost of sales in respect of sulphuric acid increased by 91.6% from US\$14.3 million in 2019 to US\$27.4 million in 2020, primarily due to the increase in sales volume and unit production costs as compared with the same period last year.

Gross profit and gross profit margin

The Group recorded a gross profit of US\$629.4 million in 2020, representing an increase of 34.3% from US\$468.5 million in 2019. The gross profit margin increased from 23.3% in 2019 to 24.2% in 2020. In particular:

The gross profit margin of blister copper and copper anodes increased from 9.9% in 2019 to 14.0% in 2020, primarily attributable to the increase in global copper price as compared with the same period last year.

The gross profit margin of copper cathodes decreased from 43.1% in 2019 to 41.2% in 2020, mainly due to the increase in the unit production cost of copper cathodes.

The gross profit margin of sulphuric acid decreased from 87.0% in 2019 to 76.7% in 2020, primarily due to the increase in unit production costs as compared with the same period last year.

Distribution and selling expenses

The distribution and selling expenses of the Group amounted to US\$67.9 million in 2020, representing an increase of 62.1% from US\$41.9 million in 2019, primarily due to the increase in sales volume of products and changes on the agreement related to the delivery expenses in certain sales contracts resulting in increase in delivery expenses and customs clearance costs as compared with the same period last year.

Administrative expenses

The administrative expenses of the Group increased by 42.1% from US\$64.4 million in 2019 to US\$91.5 million in 2020, primarily due to the expanding scale of production.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Finance costs

The finance costs of the Group increased by 121.6% from US\$16.7 million in 2019 to US\$37.0 million in 2020, primarily due to the decrease in capitalized interest and the increase in interest expenses with the project putting into production.

Other gains and losses

Other gains and losses of the Group increased by US\$89.9 million from a net loss of US\$33.0 million in 2019 to a net loss of US\$122.9 million in 2020, mainly due to the increase in exchange loss and loss on change in fair value of financial instruments as compared with the same period last year.

Income tax expense

The income tax expenses of the Group increased by US\$13.4 million from US\$99.5 million in 2019 to an expense of US\$112.9 million in 2020, mainly due to the increase in composite tax rate as compared with the same period last year.

Profit and net profit margin attributable to owners of the Company

As a result of the foregoing, the profit attributable to owners of the Company decreased by 7.3% from US\$134.9 million in 2019 to a profit of US\$125.0 million in 2020. The profit margins attributable to owners of the Company (being the profit attributable to the owners of the Company as a percentage of revenue) were 6.7% in 2019 and 4.8% in 2020, respectively.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

LIQUIDITY AND CAPITAL RESOURCES

Cash flows

The following table sets forth certain information regarding the consolidated statements of cash flows of the Group for the periods indicated:

	For the year ended 31 December	
	2020 US\$'000	2019 US\$'000
Net cash from operating activities	482,454	368,736
Net cash used in investing activities	(210,330)	(420,080)
Net cash (used in) from financing activities	(249,941)	28,748
Net increase (decrease) in cash and cash equivalents	22,183	(22,596)
Cash and cash equivalents at 1 January	481,210	505,091
Effect of foreign exchange rate changes on the balance of cash held in foreign currencies	(5,564)	(1,285)
Cash and cash equivalents at 31 December		
Represented by:		
Bank balances and cash	497,829	481,210

Net cash flows generated from operating activities

Cash inflows generated from operating activities are primarily attributable to the sales revenue of copper and sulphuric acid products and cash outflows are primarily attributable to various operating expenses. Net cash flows generated from the operating activities of the Group increased by 30.9% from an inflow of US\$368.7 million in 2019 to an inflow of US\$482.5 million in 2020, primarily attributable to the year-on-year increase in the sales volume and sales price of products during the reporting period.

Net cash flows used in investing activities

Cash outflows used in investing activities are mainly for the purchase and construction of properties, plants and equipment for copper production. The net cash flows used in investing activities of the Group decreased by 49.9% from an outflow of US\$420.1 million in 2019 to an outflow of US\$210.3 million in 2020, primarily attributable to the decrease in investment in fixed assets.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Net cash flows (used in) generated from financing activities

The cash inflows generated from financing activities primarily consist of new bank borrowings and other borrowings. The cash outflows from financing activities primarily consist of repayments for bank borrowings, payments of dividends and interest payments. The net cash flows generated from financing activities of the Group increased by US\$278.6 million from an inflow of US\$28.7 million in 2019 to an outflow of US\$249.9 million in 2020, primarily due to the year-on-year decrease in new bank borrowings.

Bank balances and cash

The Group's bank balances and cash (including cash, time deposits and demand deposits) increased by US\$16.6 million from US\$481.2 million as at 31 December 2019 to US\$497.8 million as at 31 December 2020.

Trade receivables at amortised cost/Trade receivables at FVTPL

As at 31 December 2020, the Group recorded trade receivables at amortised cost of US\$20.7 million and trade receivables at FVTPL of US\$227.7 million. The trade receivables at FVTPL were the trade receivables arising from the sales of copper products under provisional pricing arrangements. The aggregate trade receivables amounted to US\$248.40 million, which increased by US\$74.7 million from US\$173.7 million as at 31 December 2019, primarily attributable to the increase in trade receivables resulting from the fact that the copper products was not settled at the end of the reporting period and the increase in sales volume of copper products as compared with the same period last year.

Inventories

The inventories held by the Group increased by US\$141.3 million from US\$530.1 million as at 31 December 2019 to US\$671.4 million as at 31 December 2020, which was mainly due to the increase in stock of raw and auxiliary materials as a result of the expansion of production scale.

Significant investments held, material acquisitions and disposals of subsidiaries and future plans for material investments or acquisition of capital asset

Saved as disclosed in this annual report, there were no other significant investments held, material acquisitions or disposals of subsidiaries during the year ended 31 December 2020, and there was no plan approved by the Board for other material investments or acquisition of capital assets as at the date of this annual report.

Charge on assets

As at 31 December 2020 and 2019, no assets of the Group were pledged.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Capital Management

The capital structure of the Group consists of net debt (which includes bank and other borrowings, net of restricted bank balances, bank balances and cash) and equity attributable to owners of the Company (comprising share capital and retained profits). Details of capital management as at 31 December 2020 are included in note 33 to the audited consolidated financial statements of this annual report.

Gearing ratio

As at 31 December 2020, the gearing ratio was 50.4% (as at 31 December 2019: 69.7%) which is calculated by the net debts (being bank and other borrowings minus bank balances and cash, and restricted bank balances) divided by the total equity attributable to owners of the Company.

Contingent liabilities

Other than disclosed in this annual report, there were no other material contingent liabilities.

Bank and other borrowings

Details of bank and other borrowings as at 31 December 2020 are included in note 25 to the audited consolidated financial statements of this annual report. The loans of the Group are made in US\$. All of the loans of the Group have floated interest rate.

Trade payables/Trade payables designated at FVTPL

As at 31 December 2020, the Group recorded trade payables of US\$219.7 million and trade payables designated at FVTPL of US\$205.2 million. The trade payables designated at FVTPL were the trade payables arising from the purchase of copper concentrates under provisional pricing arrangements. The aggregate trade payables amounted to US\$424.9 million, which increased by US\$152.4 million from US\$272.5 million as at 31 December 2019, primarily due to the increase in balance of the settlement payable of raw materials.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Capital expenditure

	For the year ended 31 December	
	2020 (US\$'000)	2019 (US\$'000)
Mining and ore processing facilities at Chambishi Southeast Mine of NFCA	22,780	155,346
Other mining and ore processing facilities of NFCA	19,007	14,149
Mining and ore processing facilities at Luanshya (Baluba Center Mine)	4,049	19,730
Mining and leaching facilities at Luanshya (Muliashi Project)	19,550	9,826
Mining facilities at Luanshya (Roan Mine)	3,588	–
Smelting facilities at CCS	7,752	13,334
Leaching facilities at SML	1,060	3,947
Leaching facilities at Huachin Leach	10,440	16,742
Mining rights and leaching facilities at CNMC Huachin Mabende	6,889	22,527
Smelting facilities at Lualaba Copper Smelter	31,515	219,135
Mining and the processing facilities at Kambove Mining	98,818	10,333
Other facilities	28	–
Total	225,476	485,069

The total capital expenditure of the Group decreased by US\$259.6 million from US\$485.1 million in 2019 to US\$225.5 million in 2020, mainly due to that the NFCA Chambishi Southeast Mine project and the Lualaba Copper Smelter projects were completed and put into operation in 2020.

Financial policies

During the year ended 31 December 2020, the Group had in place the Financial Budget Management System, the Funds Management System, the Inventories Management System, the Fixed Assets Management System, the Financial Information Disclosure Management System, Management Measures on Approval Procedures and Permissions of Financial Income and Expenses of the Central Office and other financial policies, which aim to regulate and enhance internal control of relevant activities of the Group to ensure the safety of the Group's assets, protect investors' interests and improve operation and management level for compliance with relevant laws and regulations of Hong Kong as well as the Listing Rules.

Please also refer to note 34 to the audited consolidated financial statements contained in this annual report for the financial instruments (which include the financial risk management objectives and policies).

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Principal risks and uncertainties

Although the Company has established a risk management system to identify, analyse, evaluate and respond to risks, our business activities are still subject to the following risks, which could have material impacts on our strategy, operations, compliance and financial condition. We urge you to carefully consider the risks described below.

Commodity price risk

The Group's commodity price risk mainly derives from the exposure to fluctuations in the market price of copper, since copper is the major commodities purchased, produced and sold by the Group. The sharp fluctuations of copper price mainly reflect the changes in supply and demand of copper products, the market uncertainties and other factors which are out of the control of the Group, including but not limited to the overall economic situation, political unrest, armed conflicts, terrorist acts, economic condition in major copper producing countries, accessibility of other metals, domestic and overseas regulations of governments, natural disasters and weather conditions. Price fluctuations will have a material impact on the business, cash flow and revenue of the Group. To mitigate this risk, the Group has adopted the sales strategy with combination of long-term and short-term orders and combined with hedging to enhance the turnover of spot inventory, so as to strive to reduce the commodity price risks.

Foreign currency exchange risk

The Group operates business in Zambia and the DRC and most of its sales and purchases in the past were denominated in US dollar, its functional currency, while certain sales and purchases were settled in currencies other than its functional currency (mainly ZMK, Congolese Franc and RMB), which exposed the Group to foreign currency risk. To mitigate such risk, the Group engaged in foreign currency exchange hedging activities through various methods including locking the signing and settlement currency and expediting tax rebates.

Interest rate risk

The Group is exposed to interest rate risk of cash flow under the impact of interest rates changes of interest-bearing financial assets and liabilities, which mainly include interest-bearing restricted bank balances, bank balances and bank and other borrowings at variable interest rates. The Group currently does not have any interest rate hedging policy. However, the Directors will consider hedging significant interest rate risk should the need arise.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

OVERVIEW

In 2020, the Group spared no efforts in market expansion, with an equal emphasis on production and management, construction of projects and cost management. To this end, the operation quality and growth momentum improved and the main production and operation indicators of the Group has overfulfilled its annual budget and plan.

During the reporting period, revenue has increased by 29.3% to US\$2,597.2 million over the last year as a result of the continued growth in sales volumes of the Group's products and the impact of a year-on-year increase of international copper price.

During the reporting period, the profit attributable to owners of the Company amounted to US\$125.0 million, representing a decrease of US\$9.9 million over the last year.

Meanwhile, along with the commencement of operation of the projects including the Integrated Exploration and Construction Project of Chambishi Southeast Mine (with an investment of US\$832 million), the blister copper smelting project of Lualaba Copper Smelter (with an investment of US\$437.6 million) and the reconstruction and expansion project of CNMC Huachin Mabende as well as the construction of the Main mine project of Kambove Mining, the foundation for the Group's business growth will be further consolidated.

BUSINESS REVIEW

The Group is a leading, fast-growing and vertically integrated copper producer focusing on mining, ore-processing, leaching, smelting and sales of copper and cobalt, based in Zambia and the DRC. In particular, sulphuric acid and liquid sulphur dioxide are by-products generated during the blister copper smelting process. The Group is making greater efforts to develop cobalt business.

The businesses of the Group are principally carried out through the following companies: NFCA, Luanshya, CCS and SML located in Zambia, as well as Huachin Leach located in the DRC, CNMC Huachin Mabende, Lualaba Copper Smelter and Kambove Mining located in the DRC.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

In 2020, blister copper and copper anodes, and sulphuric acid produced by the Group amounted to 257,219 tonnes and 793,221 tonnes in total, representing an increase of 9.5% and 13.3% over last year, respectively. Copper cathodes produced amounted to 115,904 tonnes, representing an increase of 11.0% over last year; cobaltous hydroxide produced amounted to 191 tonnes; liquid sulphur dioxide produced amounted to 17,102 tonnes; the processed copper products for the Group amounted to 27,389 tonnes. In 2020, revenue of the Group increased by 29.3% to US\$2,597.2 million in 2020 from US\$2,008.7 million in 2019 as a result of the continued growth in sales volumes of the Group's products and the impact of a year-on-year increase of international copper price.

RESOURCES AND RESERVES

Assumptions adopted for the annual update of resources and/or reserves

The same assumptions as those applied in the 2012 prospectus of the Company in accordance with the JORC Code were adopted for the annual update of resources and/or reserves in this annual report. Relevant updates were made according to new exploration and based on the historical data used by technical consultants.

The main changes in resources and/or reserves were attributable to the adjustments arising from production wastage and intensified exploration.

As at 31 December 2020, the Group's mineral resources and mineral reserves reported in accordance with the JORC Code were as follows:

(1) Resources

Chambishi Main Mine

JORC category	31 December 2020				31 December 2019			
	Average grade				Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Measured	9.73	2.33%	-	-	9.18	2.31%	-	-
Indicated	3.86	2.43%	-	-	3.30	2.68%	-	-
Inferred	7.47	2.33%	-	-	7.32	2.44%	-	-

Note: Mining exploration for production purposes was conducted in 2020, with 134,700 tonnes of ore being extracted.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Chambishi West Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total	Oxide	Cobalt	Ore (Mt)	Total	Oxide	Cobalt
		copper	copper			copper	copper	
Oxide ore								
Measured	3.64	2.03%	1.00%	–	3.64	2.03%	1.00%	–
Indicated	1.46	1.83%	0.96%	–	1.46	1.83%	0.96%	–
Inferred	1.45	2.32%	1.10%	–	1.45	2.32%	1.10%	–
Sulphide Ore								
Measured	14.68	2.12%	–	–	14.04	2.00%	–	–
Indicated	4.66	2.15%	–	–	4.36	2.22%	–	–
Inferred	3.54	2.18%	–	–	5.76	2.01%	–	–

Note: Mining exploration for production purposes was conducted in 2020, with 1,391,700 tonnes of ore being extracted.

Chambishi Southeast Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total	Oxide	Cobalt	Ore (Mt)	Total	Oxide	Cobalt
		copper	copper			copper	copper	
Measured	37.54	2.29%	–	0.12%	30.61	2.32%	–	0.11%
Indicated	38.47	1.83%	–	0.10%	42.21	1.93%	–	0.10%
Inferred	52.75	1.87%	–	0.11%	57.67	1.77%	–	0.09%

Note: Mining exploration for production purposes was conducted in 2020, with 1,172,400 tonnes of ore being extracted.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Mwambashi Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total	Oxide	Cobalt	Ore (Mt)	Total	Oxide	Cobalt
		copper	copper			copper	copper	
Measured	2.14	2.04%	1.18%	-	2.42	2.31%	1.34%	-
Indicated	4.61	2.11%	0.58%	-	4.67	2.12%	0.58%	-
Inferred	3.75	2.06%	-	-	3.77	2.06%	-	-

Note: 356,700 tonnes of ore were extracted in 2020.

Samba Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total	Oxide	Cobalt	Ore (Mt)	Total	Oxide	Cobalt
		copper	copper			copper	copper	
Measured	-	-	-	-	-	-	-	-
Indicated	2.80	1.73%	-	-	2.80	1.73%	-	-
Inferred	5.85	1.65%	-	-	5.85	1.65%	-	-

Note: No mining activities were carried out at Samba Mine in 2020.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Baluba Center Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total	Oxide	Cobalt	Ore (Mt)	Total	Oxide	Cobalt
		copper	copper			copper	copper	
Oxide ore								
Measured	1.19	2.46%	1.91%	0.18%	1.19	2.46%	1.91%	0.18%
Indicated	2.41	2.30%	1.68%	0.14%	2.41	2.30%	1.68%	0.14%
Inferred	1.70	2.11%	1.17%	0.13%	1.70	2.11%	1.17%	0.13%
Sulphide Ore								
Measured	2.19	2.26%	0.08%	0.12%	5.11	2.13%	0.11%	0.14%
Indicated	0.85	2.22%	0.08%	0.08%	6.32	1.89%	0.12%	0.12%
Inferred	3.85	1.51%	0.08%	0.09%	3.64	1.71%	0.13%	0.14%

Note: In 2020, no exploration or mining activities for oxide ore were carried out at Baluba Center Mine. 1,100,000 tonnes of ore were extracted from sulphide ore.

Muliashi North Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total	Oxide	Cobalt	Ore (Mt)	Total	Oxide	Cobalt
		copper	copper			copper	copper	
Measured	5.89	1.23%	–	0.03%	6.15	1.24%	–	0.03%
Indicated	5.30	1.13%	–	0.02%	5.69	1.15%	–	0.02%
Inferred	21.19	1.17%	–	0.01%	21.85	1.18%	–	0.01%

Note: Supplemental exploration was conducted in 2020, with 1,310,000 tonnes of ore being extracted.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Mashiba Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Measured	-	-	-	-	-	-	-	-
Indicated	6.65	2.27%	-	0.02%	6.65	2.27%	-	0.02%
Inferred	1.48	1.94%	-	0.02%	1.48	1.94%	-	0.02%

Note: No mining activities were carried out in 2020.

Baluba East Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Measured	14.64	1.67%	0.67%	0.02%	15.99	1.66%	0.65%	-
Indicated	2.07	1.21%	1.16%	0.01%	2.52	1.25%	0.20%	-
Inferred	0.90	0.98%	0.88%	0.02%	1.35	1.07%	0.17%	-

Note: 2,190,000 tonnes of ore were extracted in 2020.

Roan Basin

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Measured	-	-	-	-	-	-	-	-
Indicated	1.87	1.81%	1.52%	-	-	-	-	-
Inferred	-	-	-	-	2.02	1.77%	1.45%	-

Note: Supplemental exploration was conducted and 150,000 tonnes of ore were extracted in 2020.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Roan Ext. West

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Measured	-	-	-	-	-	-	-	-
Indicated	2.04	3.56%	3.07%	-	2.49	3.19%	2.97%	-
Inferred	0.31	2.51%	2.31%	-	0.35	2.46%	2.21%	-

Note: 469,400 tonnes of ore were extracted in 2020.

Roan Ext. East

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Measured	-	-	-	-	-	-	-	-
Indicated	4.97	2.49%	2.32%	-	4.97	2.49%	2.32%	-
Inferred	0.22	2.33%	2.20%	-	0.22	2.33%	2.20%	-

Note: No mining activities were carried out in 2020.

Smelting Slag

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Measured	-	-	-	-	-	-	-	-
Indicated	7.28	1.03%	0.31%	-	-	-	-	-
Inferred	-	-	-	-	9.47	1.03%	0.31%	-

Note: Supplemental exploration was conducted in 2020, with 550,000 tonnes of ore being extracted, and 1,640,000 tonnes were lost due to illegal mining and collapse cause by flood.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Kambove Main Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Measured	-	-	-	-	-	-	-	-
Indicated	8.79	3.21%	-	-	8.79	3.21%	-	-
Inferred	2.67	3.09%	-	-	2.67	3.09%	-	-

Kambove Main Open Pit Tailings

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Measured	-	-	-	-	-	-	-	-
Indicated	-	-	-	-	-	-	-	-
Inferred	1.49	0.72%	-	-	1.49	0.72%	-	-

Kambove West Open Pit Tailings

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Measured	-	-	-	-	-	-	-	-
Indicated	-	-	-	-	-	-	-	-
Inferred	2.35	1.15%	-	-	2.35	1.15%	-	-

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

(2) Reserves

Chambishi Main Mine

JORC category	Ore (Mt)	31 December 2020 Average grade			Ore (Mt)	31 December 2019 Average grade		
		Total copper	Oxide copper	Cobalt		Total copper	Oxide copper	Cobalt
Proved	1.48	1.85%	-	-	0.96	1.73%	-	-
Probable	5.85	1.48%	-	-	5.66	1.77%	-	-

Note: 134,700 tonnes of ore were extracted in 2020. The increase in reserves is attributable to the decrease in mining loss rate and infill exploration °

Chambishi West Mine

JORC category	31 December 2020				31 December 2019			
	Average grade				Average grade			
	Ore	Total	Oxide	Cobalt	Ore	Total	Oxide	Cobalt
(Mt)	copper	copper	copper		(Mt)	copper	copper	
Sulphide Ore								
Proved	7.94	1.93%	—	—	3.00	2.00%	—	—
Probable	10.59	1.98%	—	—	9.83	1.80%	—	—

Note: 1,391,700 tonnes of ore were extracted in 2020. The increase in reserves is attributable to the production and mineral exploration.

Chambishi Southeast Mine

JORC category	Ore (Mt)	31 December 2020 Average grade			Ore (Mt)	31 December 2019 Average grade		
		Total copper	Oxide copper	Cobalt		Total copper	Oxide copper	Cobalt
Proved	38.17	2.00%	-	0.11%	27.08	1.91%	-	0.09%
Probable	11.69	1.72%	-	0.08%	16.46	1.67%	-	0.09%

Note: 1,172,400 tonnes of ore were extracted in 2020. The increase in reserves is attributable to the increase in the production, mineral exploration, recovery rate and upgrade of resources.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Mwambashi Mine

JORC category	Ore (Mt)	31 December 2020 Average grade			Ore (Mt)	31 December 2019 Average grade		
		Total copper	Oxide copper	Cobalt		Total copper	Oxide copper	Cobalt
Proved	1.04	2.17%	1.23%	–	1.32	2.22%	1.28%	–
Probable	3.58	2.06%	1.05%	–	3.64	2.07%	1.05%	–

Note: 356,700 tonnes of ore were extracted in 2020.

Baluba Center Mine

JORC category	Ore (Mt)	31 December 2020 Average grade			Ore (Mt)	31 December 2019 Average grade		
		Total copper	Oxide copper	Cobalt		Total copper	Oxide copper	Cobalt
Proved	0.40	1.28%	0.06%	0.10%	0.80	1.34%	–	0.10%
Probable	0.25	1.38%	0.06%	0.10%	0.48	1.34%	–	0.10%

Note: 1,100,000 tonnes of ore were extracted in 2020.

Muliashi North Mine

JORC category	Ore (Mt)	31 December 2020 Average grade			Ore (Mt)	31 December 2019 Average grade		
		Total copper	Oxide copper	Cobalt		Total copper	Oxide copper	Cobalt
Proved	–	–	–	–	–	–	–	–
Probable	9.35	1.18%	0.31%	0.02%	10.66	1.21%	–	–

Note: Supplemental exploration was conducted in 2020, with 1,310,000 tonnes of ore being extracted.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Mashiba Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Proved	-	-	-	-	-	-	-	-
Probable	5.61	2.11%	-	-	5.61	2.11%	-	-

Note: No mining activities were conducted in 2020.

Baluba East Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Proved	7.38	1.77%	0.86%	-	9.61	1.70%	0.81%	-
Probable	0.06	1.54%	0.45%	-	0.14	1.53%	0.50%	-

Note: 2,190,000 tonnes of ore were extracted in 2020.

Roan Ext. West

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Proved	-	-	-	-	-	-	-	-
Probable	1.30	3.72%	3.08%	-	1.78	3.09%	3.03%	-

Note: 469,400 tonnes of ore were extracted in 2020.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Roan Ext. East

JORC category	Ore (Mt)	31 December 2020 Average grade			Ore (Mt)	31 December 2019 Average grade		
		Total copper	Oxide copper	Cobalt		Total copper	Oxide copper	Cobalt
Proved	-	-	-	-	-	-	-	-
Probable	3.68	2.14%	2.10%	-	3.68	2.14%	2.10%	-

Note: No mining activities were conducted in 2020.

Roan Basin

JORC category	Ore (Mt)	31 December 2020 Average grade			Ore (Mt)	31 December 2019 Average grade		
		Total copper	Oxide copper	Cobalt		Total copper	Oxide copper	Cobalt
Proved	-	-	-	-	-	-	-	-
Probable	1.93	2.67%	2.12%	-	-	-	-	-

Note: Supplemental exploration was conducted in 2020, with 150,000 tonnes of ores being extracted.

Smelting Slag

JORC category	Ore (Mt)	31 December 2020 Average grade			Ore (Mt)	31 December 2019 Average grade		
		Total copper	Oxide copper	Cobalt		Total copper	Oxide copper	Cobalt
Proved	-	-	-	-	-	-	-	-
Probable	7.28	1.03%	0.31%	-	-	-	-	-

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Kambove Main Mine

JORC category	31 December 2020 Average grade				31 December 2019 Average grade			
	Ore (Mt)	Total copper	Oxide copper	Cobalt	Ore (Mt)	Total copper	Oxide copper	Cobalt
Proved	-	-	-	-	-	-	-	-
Probable	7.63	2.98%	-	-	7.63	2.98%	-	-

PRODUCTION OVERVIEW

NFCA

NFCA mainly operates three mines, namely the Chambishi Main Mine, Chambishi West Mine and Chambishi Southeast Mine, as well as the ancillary processing plant.

In 2020, the total amount of metal relating to copper anodes produced by NFCA amounted to 40,163 tonnes, representing a year-on-year increase of 58.4%. Such increase was primarily attributable to the commercial production of Southeast Mine in July 2020.

Luanshya

Luanshya operates three copper mines under production, namely Baluba Center Mine, Muliashi North Mine, Baluba East Mine, and also operates Muliashi Leach Plant.

In 2020, the total amount of metal relating to blister copper produced by Luanshya amounted to 13,612 tonnes, representing a year-on-year increase of 14.5%; the total amount of copper cathodes produced amounted to 43,000 tonnes, representing a year-on-year increase of 2.7%.

CCS

CCS mainly operates the Chambishi Smelting Plant.

In 2020, CCS produced 149,494 tonnes in total of blister copper and copper anodes, representing a year-on-year decrease of 30.3%. Such decrease was mainly due to some of the production capacity of CCS is used for processing copper anodes, for NFCA, and part of the production capacity is used to process blister copper etc. for Luanshya and SML and enterprises other than the Group. The processed copper products by CCS for enterprises under or other than the Group amounted to 71,495 tons in 2020, representing a year-on-year increase of 176.2%. CCS produced 643,252 tonnes of sulphuric acid in 2020, representing a year-on-year decrease of 8.1%.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

SML

SML mainly operates Mwambashi Mine and the Chambishi Leach Plant.

The total copper products produced by SML in 2020 amounted to 12,345 tonnes, among which, copper cathodes amounted to 9,116 tonnes, blister copper amounted to 3,229 tonnes, representing a year-on-year increase of 13.4%, mainly attributable to the year-on-year increase in copper from the purchased ore.

CNMC Huachin Mabende

CNMC Huachin Mabende produced 36,987 tonnes of copper cathodes, representing an increase of 14.1% as compared with the same period in the previous year, mainly attributable to a year-on-year increase in ore processing amount and ore grade.

Huachin Leach

Huachin Leach accumulatively produced 26,801 tonnes of copper cathodes, representing an increase by 15.8% as compared to the same period in the previous year, mainly attributable to the expanding scale of production, and a significant year-on-year increase in ore processing amount.

Lualaba Copper Smelter

Lualaba Copper Smelter mainly operates the Lualaba Smelting Plant.

Lualaba Copper Smelter was put into commercial production in the second quarter of 2020, and accumulatively produced 29,969 tonnes of blister copper, 149,969 tonnes of sulfuric acid, and 17,102 tonnes of liquid sulfur dioxide, and processed 38,083 tonnes of blister copper for internal and external enterprises of the Group.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

The table below presents the production volume of the products of the Group and the year-on-year situation for the periods indicated.

	Production volume for 2020 ^{(1), (2), (3)} (Tonnes)	Production volume for 2019 ^{(1), (3)} (Tonnes)	Year-on-year growth/ (decrease) (%)
Copper concentrates	–	20,536	N/A
Blister copper & copper anodes	257,219	234,837	9.5%
Copper cathodes	115,904	104,404	11.0%
Cobalt contained in copper-cobalt alloy	–	21	N/A
Cobalt contained in cobalt hydroxide	191	105	81.9%
Sulphuric acid	793,221	700,303	13.3%
Liquid sulphur dioxide	17,102	–	N/A
Copper products processing services ⁽⁴⁾	27,389	–	N/A

Notes:

- (1) Copper concentrates, which used to be the final product of Luanshya, have been replaced with blister copper since May 2019. Copper concentrates, which used to be the final product of NFCA, have been replaced with copper anodes since July 2019. Copper concentrates, which used to be the final product of SML, had been replaced with blister copper since July 2019.
- (2) The production volumes of the above blister copper and copper anodes include 20,752 tonnes of blister copper that was processed by Lualaba Copper Smelter as entrusted by Kingsail Limited after Kingsail Limited had purchased copper concentrates.
- (3) The production volumes of all the products are on a contained-copper basis, except for sulphuric acid, liquid sulphur dioxide, copper-cobalt alloy and cobaltous hydroxide.
- (4) The copper products processing services refer to the processing and production of copper products by the Group's copper smelters as entrusted by the external enterprises and the Group receives processing fees from these enterprises.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

EXPLORATION, DEVELOPMENT AND MINING COST OF THE GROUP

Expenses of exploration, development, and mining activities of the Group for the year ended 31 December 2020 are set out below:

Unit: Million US dollars																
	West Mine	Mine	Sulphide Mine	North Mine	South Mine	Mine	East Mine	Basin	Mine	Mine	Mine	Mine	deposit	deposit	Total	
Exploration activities																
Drilling and analysis	1.37	1.88	0.61	0.14	-	0.55	0.07	-	-	0.02	0.23	0.65	0.23	0.67	6.42	
Others	-	-	-	-	-	0.01	-	-	-	-	-	-	-	-	0.01	
Sub-total	1.37	1.88	0.61	0.14	-	0.56	0.07	-	-	0.02	0.23	0.65	0.23	0.67	6.43	
Development activities (including mine construction)																
Purchases of assets and equipment	-	4.64	-	0.84	-	-	-	-	-	-	-	-	65.37	-	70.85	
Civil work for construction of tunnels and roads	3.28	23.29	-	-	-	-	-	3.06	-	-	-	-	1.52	-	31.15	
Sub-total	3.28	27.93	-	0.84	-	-	-	3.06	-	-	-	-	66.89	-	102.00	
Mining activities																
(excluding ore processing)																
Staff cost	2.59	3.00	1.85	0.17	-	-	-	-	0.26	-	-	0.46	-	-	8.33	
Materials and equipment	8.76	11.65	3.35	0.60	-	-	1.21	-	1.00	-	-	0.72	-	-	27.29	
Fuel, electricity, water and others services	9.69	3.80	7.04	26.09	-	-	-	-	0.17	-	-	-	-	-	46.79	
Non-income taxes, royalties and other government expenses	-	-	6.32	9.87	2.07	-	6.26	0.53	-	-	-	0.12	-	-	25.17	
Sub-contracting charges	44.57	21.31	17.64	21.07	-	-	21.69	1.03	6.66	-	-	-	-	-	133.97	
Depreciation	5.99	15.76	2.35	8.23	0.34	-	1.44	0.02	3.26	-	-	0.50	-	-	37.89	
Sub-total	71.60	55.52	38.55	66.03	2.41	-	30.60	1.58	11.35	-	-	1.80	-	-	279.44	

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

MINING EXPLORATION, MINING DEVELOPMENT AND ORE MINING ACTIVITIES

Mining Exploration

During the reporting period, NFCA, Luanshya, Huachin Mabende and Kambove Mining, each being subsidiaries of the Company, conducted mining exploration for production and exploration purposes, respectively. In particular:

At Chambishi Main Mine, Chambishi West Mine and Chambishi Southeast Mine of NFCA, 418 drilling holes were completed in the pit, with 34,198.07 m drilled, of which 82 underground drilling holes were completed at Chambishi Main Mine and Chambishi West Mine in aggregate, with 10,016.48 m drilled, and 336 drilling holes in the pit were completed at Chambishi Southeast Mine in aggregate, with 24,181.59 m drilled.

In 2020, Luanshya conducted exploration, drilling and platform trenches. In particular, in its three projects, i.e. the supplemental exploration at a near-surface oxide mine between SS19 line and SS35 line at the south wing of the copper mine in Roan Basin, the supplemental exploration at Mashiba Mine and the exploration at the deep north side of Muliashi, 56 surface drilling holes were completed, with a drilling footage of 7,702 m. At Muliashi North Strip Mine, Roan (East & West) Extension, Roan Basin and Baluba East Strip Mine, 58 platform trenches for production and exploration purposes were completed, with a total length of 3,380 m and a total capacity of 1,872 m³.

Huachin Mabende conducted exploration at the PE1060 tenement, during which 35 drilling holes were completed, with 4,530.6 m drilled; 1:10,000 soil geochemical survey was completed, with an area of 92.97 km²; and 20 shallow wells were constructed, with a total drilling footage of 447.90 m; and 24,322 samples were collected and analyzed.

Kambove Mining conducted exploration outside of its main mine, during which 8 drilling holes were completed, with 536.66 m drilled; and conducted supplemental exploration at its west mine, during which 5 drilling holes were completed, with 2,890m drilled.

Mining Development

For details of mining development, please refer to “Projects Under Progress” on pages 34 to 35.

Mining Activities

For details of mining activities, please refer to “Production Overview” on pages 29 to 31.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Infrastructure projects, subcontracting arrangements and procurement of equipment

The par value of new infrastructure project contracts entered into by the Group in 2020 amounted to approximately US\$218.91 million.

No subcontracting arrangements were entered into by the Group during 2020*.

During 2020, contracts which amounted to approximately US\$22.96 million were entered into by the Group for purchase of equipment related to mining exploration, mining development and mining activities, including equipment for mining, transportation, processing, drainage, soil discharge, electricity, and laboratory purposes etc.

* Subcontracting arrangement refers to an arrangement made between one party to a contract and a third party, pursuant to which the third party shall fulfill all or part of the obligation of that party under the said contract. For example, it refers to the circumstance where the Group is awarded a project as a contractor and then transfers the entire project or subcontracts in part the project to a third party.

PROJECTS UNDER PROGRESS

NFCA

The Integrated Exploration and Construction Project of the Chambishi Southeast Mine

This project is currently under development and is one of the key development mine projects of the Company with a designed ore-processing capacity of 3,300,000 tonnes per annum and a production capacity of copper contained in copper concentrates of approximately 58,900 tonnes per annum. Its aggregate planned investments amounted to US\$832 million. The construction of the project has been completed, and the commencement of production took place at the third quarter of 2020.

Luanshya

Strip Mine Project at the Extended Section of Roan

The Strip Mine Project at the Extended Section of Roan has a designated capacity of one million tonnes of quality oxide copper mine per annum and an output of 20,000 tonnes of copper cathodes. The developmental stripping for the project commenced at the end of May 2020, and was completed in 2020 with an expense of US\$3,059,600.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

CNMC Huachin Mabende

Reconstruction and Expansion Project of CNMC Huachin Mabende

The project has a designated production output 45,000 tonnes of copper cathodes per annum and a designated total investment of US\$18.91 million. The construction of the project was completed and the project was put into production at the third quarter of 2020, and the accumulated investment completed was approximately US\$14.92 million.

Lualaba Copper Smelter

Blister Copper Smelting Project

A copper concentrate (dry) smelting project with an annual capacity of 400,000 tonnes would be constructed to produce approximately 118,000 tonnes of blister copper per annum. With an investment budget of US\$437.60 million, the construction of such project commenced on 28 March 2018 and was expected to continue for two years. The construction of the project has been completed, and the commencement of production took place at the second quarter of 2020.

Cobalt Recycling System Project

This project was a sub-system of the copper concentrate (dry) and blister copper smelting project with an annual capacity of 400,000 tonnes. The capacity of copper-cobalt amounts to 10,000 tonnes per annum and the investment budget is US\$33.10 million. The construction of the project was completed at the third quarter of 2020.

Kambove Mining

The Integrated Exploration and Construction Project of Kambove Main Mine

The project of Kambove Main Mine has a planned annual processing capacity of 990,000 tonnes of oxidized ore, 500,000 tonnes of tailings, and has a planned annual production capacity of 28,000 tonnes of copper cathode, 978 tonnes of blister cobaltous hydroxide with an estimated investment of US\$238 million in total and a tentative construction period of 21 months. The construction of the project commenced in January 2020, and as at the end of 2020, the accumulated investment completed was approximately US\$116,968,500.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

Human resources

As of 31 December 2020, the Group employed a total of 8,352 employees (as of 31 December 2019: 8,188 employees), which comprised 877 Chinese and 7,475 local employees in Zambia and the DRC. Employees' remuneration was determined by the Group based on their performance, experience and the prevailing market practice. For the year ended 31 December 2020, the total cost of employees reflected in the consolidated statement of profit or loss and other comprehensive income amounted to approximately US\$113.7 million (2019: US\$103.9 million).

2021 OUTLOOK

2020 was an extremely difficult and extraordinary year. In 2020, the Group made scientific decisions and proactive plans, focusing on both pandemic prevention and control and production and operation. The main businesses in Zambia and the DRC in Central and Southern Africa overcame various difficulties such as the impact of the pandemic, and achieved good results. As of 31 December 2020, the Group's various production and operation and construction continued to progress in a steady and orderly manner.

Looking forward to 2021, despite of the lingering complex and severe situation and the challenges entangled with opportunities, the Group expects many more opportunities than challenges, and considers it an exciting and promising year. From a global perspective, with the large-scale use of the COVID-19 vaccine, the world will gradually get rid of the haze of the pandemic and the economy will recover quickly in 2021. Insufficiency in global copper production and supply remains a prominent problem, providing a strong support for copper prices.

The Group will continue to align with its own development strategy, enhance its investments in geological exploration and development, and identify suitable acquisition targets in regions with rich copper and cobalt resources such as Zambia and the DRC, with an aim to strengthen the Group's resources. Meanwhile, based on the premise that effective efforts are made to implement regular pandemic prevention and control measures, the Group will stand committed to enhancing productivity by expanding capacity, reducing cost, improving quality and driving innovation, and strive for economic growth marked by quality and efficiency.

MANAGEMENT DISCUSSION AND ANALYSIS (CONTINUED)

OTHER INFORMATION

PROPOSED REORGANISATION AND TERMINATION AT CONTROLLING SHAREHOLDER LEVEL

As part of an intra-group restructuring, China Nonferrous Metal Industry's Foreign Engineering and Construction Co., Ltd. ("**NFC**"), whose shares are listed on the Shenzhen Stock Exchange (stock code: 000758.SZ) and also a subsidiary of CNMC, proposed to acquire a controlling interest of approximately 74.52% of the total issued share capital of the Company from CNMD, a controlling shareholder of the Company (the "**Reorganisation**").

The implementation of the Reorganisation was subject to various conditions, including but not limited to the approvals by shareholders of NFC and consideration and approvals by the China Securities Regulatory Commission. As at 24 May 2020, after due and careful consideration by NFC, NFC and CNMD have agreed to terminate the Reorganisation. Further details regarding the Reorganisation are set out in the announcements made by the Company on 27 September 2019, 18 October 2019, 9 March 2020, 23 March 2020, 29 April 2020 and 24 May 2020.

DIRECTORS AND SENIOR MANAGEMENT BIOGRAPHIES

BOARD OF DIRECTORS

The Board of Directors is responsible for the management and conduct of the business and consists of six Directors, including three executive Directors, and three independent non-executive Directors. The table below sets forth certain information in respect of the members of the Board of Directors:

Name	Age	Position/Title
Jinjun Zhang (<i>re-designated as Executive Director and appointed as President on 14 October 2020, appointed as Chairman on 8 January 2021</i>)	52	Chairman, Executive Director and President
Xiaowei Wang	58	Executive Director
Chunlai Wang	60	Executive Director and Vice President
Tongzhou Wang ^(Note) (<i>resigned on 4 September 2020</i>)	55	Chairman and Executive Director
Wei Fan ^(Note) (<i>appointed on 24 March 2020 and resigned on 14 October 2020</i>)	46	Executive Director and Vice President
Lin Zhang ^(Note) (<i>resigned on 14 October 2020</i>)	58	Executive Director and President
Kaishou Xie ^(Note) (<i>resigned on 24 March 2020</i>)	65	Executive Director and Vice President
Chuanyao Sun	76	Independent Non-executive Director
Jingwei Liu	53	Independent Non-executive Director
Huanfei Guan	63	Independent Non-executive Director

Note: For the details of resigned directors' biography, please refer to the section headed "Directors and Senior Management Biographies" in 2018 annual report (Kaishou Xie) and 2019 annual report (Tongzhou Wang, Wei Fan and Lin Zhang) respectively.

Jinjun Zhang (張晉軍), aged 52, is the Chairman, an executive Director and the President of the Company, the chairman of the Compliance Committee, and a member of each of the Nomination Committee and the Remuneration Committee. He was appointed to the Board as a non-executive Director on 29 March 2019. Mr. Zhang was re-designated as an executive Director and was appointed as the President of the Company on 14 October 2020. He was appointed as the Chairman and cease to be the Vice Chairman of the Company on 8 January 2021. Mr. Zhang obtained a master degree in mining engineering from University of Science and Technology Beijing in 2015. Mr. Zhang joined NFCA, a subsidiary of the Company, in October 2006, and worked as manager of production technology department, vice general manager and executive vice general manager in succession. He served as the general manager of NFCA from March 2016 to December 2018, and has been the vice general manager of CNMC since December 2018. Mr. Zhang has over 30 years of experience in nonferrous metals and mining and has extensive practical experience in the operations of conglomerates.

DIRECTORS AND SENIOR MANAGEMENT BIOGRAPHIES (CONTINUED)

Xiaowei Wang (王小衛), aged 58, is an executive Director of the Company and was appointed to the Board on 30 August 2018. Mr. Wang currently also serves as a director of China Nonferrous Mining Hong Kong Holdings Limited and Kingsail Limited. Mr. Wang obtained a bachelor's degree of engineering in mining from the Mining Department of Xi'an Institute of Metallurgy and Construction Engineering* in 1982. Mr. Wang joined the CNMC, a controlling shareholder of the Company, in August 2002 and served as the principal of Myanmar project department as well as the president and general manager of CNMC Nickel Co., Ltd.*. He has been the assistant to general manager of the CNMC since November 2007. He served as the deputy director, director and vice dean of the Mining Division of Jinchuan Nickel and Cobalt Research and Design Institute*, deputy head and head of Longshou Mine of Jinchuan Non-Ferrous Metals Company*, head of Mine No. 2 of Jinchuan Group Ltd.* and deputy general manager of the NFCA. Mr. Wang has over 39 years of experience in nonferrous metals industry and years of overseas work experience.



On-site investigation at Luanshya by Jinjun Zhang, the Chairman

* Translation of English and Chinese terms for reference purposes only

DIRECTORS AND SENIOR MANAGEMENT BIOGRAPHIES (CONTINUED)



Standard copper cathodes produced by SML

Chunlai Wang (王春來), aged 60, is an executive Director and a vice president of the Company primarily in charge of Luanshya. He was appointed to the Board on 12 April 2012. Mr. Wang has 40 years of experience in the mining industry. He currently is the chairman of the board of Luanshya. He served as the deputy general manager of NFCA from 2005 to 2009 and became its executive director in 2007. He was transferred from the managing director of NFCA to the managing director of Luanshya on 24 March 2016. From 1981 to 2005, Mr. Wang worked in the Dongguashan Copper Mine of Tongling Nonferrous Metals Group Co., Ltd. (銅陵有色金屬集團股份有限公司) (a company listed on the Shenzhen Stock Exchange, SZ000630) as a mining engineer, assistant to the mine manager, deputy mine manager and mine manager. Mr. Wang graduated from Anhui Metallurgy College (安徽冶金專科學校) in 1981 majoring in mining and obtained a Master of Business Administration degree from the School of Business of Nanjing University (南京大學工商管理學院) in 2005. Mr. Wang was recognised as a State Council Special Allowance Expert in 2002 and was recognised as a Senior Mining Engineer (professor level) in 2007.

DIRECTORS AND SENIOR MANAGEMENT BIOGRAPHIES (CONTINUED)



Full view of Isasmelt furnace at CCS

Chuanyao Sun (孫傳堯), aged 76, is an independent non-executive Director of the Company, the chairman of the Nomination Committee and a member of each of the Audit Committee, the Compliance Committee and the Remuneration Committee and was appointed to join the Board on 27 April 2012. He has 52 years of experience in the mining industry. Mr. Sun resigned on 1 March 2018, 27 February 2018 and 6 March 2018 as an independent non-executive director of Jiamusi Electric Machine Company Limited (哈爾濱電氣集團佳木斯電機股份有限公司) (a company listed on the Shenzhen Stock Exchange, SZ000922), China Aluminum International Engineering Corporation Limited (中鋁國際工程股份有限公司) (a company listed on the Hong Kong Stock Exchange, HK02068) and Jiangxi Copper Company Limited (HK00358), respectively. Mr. Sun joined the Beijing General Research Institute of Mining and Metallurgy (北京礦冶研究總院) (“BGRIMM”) in 1981 and served as its dean from February 1988 to February 2007. He worked at the Xinjiang Keketuohai Ore Processing Plant (新疆可可托海礦業選礦廠) from December 1968 and became its deputy factory director in October 1976. Mr. Sun graduated from Northeastern Institute of Technology (東北工學院) (currently known as Northeastern University (東北大學)) in 1968 and was awarded a master degree in BGRIMM (北京礦冶研究總院) with a major in ore processing in 1981. Mr. Sun is an fellow of Chinese Academy of Engineering (中國工程院) and St Petersburg Academy of Engineering and Science in Russia (俄羅斯聖彼得堡工程科學院), a deputy director of Committee of Experts of China Nonferrous Metal Industry Association (中國有色金屬工業協會專家委員會), the director of the Ore Processing Academic Committee of the Nonferrous Metals Society of China (中國有色金屬學會選礦學術委員會) and the director of Key Laboratory of Mineral Processing of the State (國家礦物加工重點實驗室).

DIRECTORS AND SENIOR MANAGEMENT BIOGRAPHIES (CONTINUED)

Jingwei Liu (劉景偉), aged 53, is an independent non-executive Director of the Company, the chairman of the Audit Committee and a member of the Nomination Committee, and was appointed to the Board on 27 April 2012. He is a partner of Shinewing Certified Public Accountants (信永中和會計師事務所). Mr. Liu previously served as the head of the Forestry Fund Management Headquarters of the Ministry of Forestry, a lecturer at Beijing Forestry University and a director and deputy general manager of Beijing Jincheng Gardening Co., Ltd.* (北京金城園林公司). He currently serves as an independent director of Guiyang Longmaster Information & Technology Co., Ltd.* (貴陽朗瑪信息技術股份有限公司) (a company listed on the Shenzhen Stock Exchange, SZ300288), an independent director of Beijing StarNeto Technology Co., Ltd.* (北京星網宇達科技股份有限公司) (a company listed on the Shenzhen Stock Exchange, SZ002829), an independent director of Shanghai Yaohua Pilkington Glass Group Co., Ltd.* (上海耀皮玻璃集團股份有限公司) (a company listed on the Shanghai Stock Exchange, SH600819), a non-executive director of Shoucheng Holdings Limited (首程控股有限公司) (formerly known as Shougang Concord International Enterprises Company Limited (首長國際企業有限公司)) (a company listed on the Main Board of Hong Kong Stock Exchange, HK00697) and an independent non-executive director of AVIC Joy Holdings (HK) Limited (HK0260) appointed in September 2020. Mr. Liu graduated from the School of Economics of Beijing Forestry University (北京林業大學經濟管理學院) in 1989 and from Shanghai Advanced Institute of Finance with a master's degree in 2016. He is a PRC Certified Public Accountant.

Huanfei Guan (關浣非), aged 63, is an independent non-executive Director of the Company, chairman of the Remuneration Committee, a member of each of the Audit Committee and the Compliance Committee, and was appointed to the Board on 28 August 2014. Mr. Guan has extensive experience in the finance and insurance industry in Hong Kong and China. He served various senior managerial positions in People's Insurance Company of China* (Jilin Branch) (中國人民保險公司吉林省分公司), Hong Kong and Macao Regional Office of China Insurance Group* (中國保險港澳管理處), Ming An Insurance Company (Hong Kong) Limited (香港民安保險有限公司) and China Pacific Insurance Co., (HK) Ltd. (中國太平洋保險(香港)有限公司). Mr. Guan also held offices at the Bank of Communications, including the deputy chairman of the risk asset management committee, deputy chairman of credit asset management committee, chairman of loan verification committee, deputy general manager of the Bank of Communications Hong Kong Branch, the director of Bank of Communications Trustee Limited (交通銀行信託有限公司), the chairman and chief executive of China BOCOM Insurance Co., Ltd. (中國交銀保險有限公司) and an executive director and general manager of BoCommLife Insurance Company Limited. Mr. Guan is also an economic and technical consultant of Jilin Provincial Government. Mr. Guan is now an independent non-executive director of Sunwah Kingsway Capital Holdings Limited (Hong Kong listed company code 0188), Huarong International Financial Holdings Limited (Hong Kong listed company code 0993) and China Shandong Hi-Speed Financial Group Limited (Hong Kong listed company code 0142) (shares of those companies are listed on the Main Board of the Hong Kong Stock Exchange). He once served as the chairman emeritus of Culturecom Holdings Limited (a company listed in Hong Kong) (Hong Kong listed company code 0343). Mr. Guan was an independent non-executive director, executive director,

* translation of English terms for reference only

DIRECTORS AND SENIOR MANAGEMENT BIOGRAPHIES (CONTINUED)

president and senior consultant of Silver Base Group Holdings Limited (Hong Kong listed company code 0886) for the period from March 2008 to December 2012. He once served as an executive director of CCT Land Holdings Limited (currently named GBA Holdings Group) (Hong Kong listed company code 0261). On 15 May 2020, he resigned as an independent non-executive director of HongDa Financial Holding Limited (currently named China Wood International Holding Co., Limited) (Hong Kong listed company code 1822). He served as an independent non-executive director of Solis Holdings Limited (Hong Kong listed company code 2227) from 23 August 2019 to 30 September 2020. He was appointed as the executive director and chairman of the board of Enterprise Development Holdings Limited (Hong Kong listed company code 1808) on 2 June 2020. He served as an independent non-executive director of Shanghai Zendai Property Limited (Hong Kong listed company code 0755) with effect from 11 January 2021. Mr. Guan obtained a doctor's degree in Economics in 2000 from Wuhan University and has been a part-time researcher of the Insurance Research Centre of Fudan University since 2004. He has also been appointed as a part-time lecturer of professional degree of Fudan University since 2013.



Muliashi Leach Plant of Luanshya

DIRECTORS AND SENIOR MANAGEMENT BIOGRAPHIES (CONTINUED)

SENIOR MANAGEMENT

Jinjun Zhang (張晉軍), aged 52, is the chairman and president of the Company. Please refer to the paragraph headed “Board of Directors” for his biographical background.

Xiaowei Wang (王小衛), aged 58, is an executive director of the Company. Please refer to the paragraph headed “Board of Directors” for his biographical background.

Chunlai Wang (王春來), aged 60, is a vice president of the Company primarily in charge of Luanshya. Please refer to the paragraph headed “Board of Directors” for his biographical background.

Guobin Hu (胡國斌), aged 53, is a vice president of the Company and was appointed as and joined the senior management of the Company on 29 March 2019, who is in charge of the production and operation and compliance operation of NFCA. He has over 31 years of experience in metal industry. Mr. Hu has successively served as the deputy director in Dongguashan Copper Mine of Tongling Nonferrous Metal Company (銅陵有色金屬公司), general manager of Zijin Tongguan Investment Co., Ltd. in Xiamen (廈門紫金銅冠投資發展有限公司), director of British Monterico Metals Company (英國蒙特瑞科金屬公司), deputy general manager of Rio Blanco Copper S.A. in Peru (秘魯白河銅業公司), director and deputy general manager of CRCC-Tongguan Investment Co., Ltd. (中鐵建銅冠投資有限公司), director of Coliante Company in Canada (加拿大寇里安特公司), senior deputy general manager of Coliante Company in Ecuador (厄瓜寇里安特公司), deputy general manager of NFCA and other positions. Since January 2019, Mr. Hu has served as the general manager of NFCA. Mr. Hu obtained a bachelor degree of mining engineering from Central South University in 1987.

Peiwen Zhang (張培文), aged 53, is a vice president of the Company who is in charge of SML. He was appointed as and joined the senior management of the Company on 24 March 2016 and currently acts as a director and the general manager of SML. He resigned as a director of CNMC Huachin Mabende in June 2017. Mr. Zhang has 30 years of experience in the mining industry and acted as the vice general manager of SML from 2005 to 2016. In 2004, he was appointed as the technology director of Kunming Rui Yuan Ju Corporation (昆明瑞源巨公司), the 2,000-tonne hydrometallurgical plant of Yunnan Jinsha Corporation (雲南金沙公司). From 2001 to 2004, he acted as the vice director of the scientific research institute of Yunnan Jinsha Mining Co., Ltd. From 1995 to 2000, he has successively acted as the vice director, director, the assistant to the head of and deputy head of the metallurgical research institute under the scientific research institute of former Yunnan Dongchuan Copper Mines Administration (雲南東川礦務局) and the director of 500-tonne hydrometallurgical plant. Mr. Zhang graduated from Changsha Non-ferrous College (長沙有色金屬專科學校) in 1989 with a major in non-ferrous metal metallurgy and was recognised as a metallurgical engineer in 1998.

Shili Zhang (張士利), aged 59, is a vice president of the Company, and was appointed as a member of senior management of the Company on 26 March 2020. He is a senior engineer in mine survey major. Mr. Zhang once served in Beijing Coal Design and Research Institute and China Coal International Engineering Design and Research Institute; in July 2002, Mr. Zhang served as project manager of CNMC China Nonferrous Metals International Mining Co., Ltd., and from April 2003 to January 2020, Mr. Zhang served in China Nonferrous Metal Industry's Foreign Engineering and Construction Co., Ltd. and held the positions of vice general manager, deputy secretary of the Party Committee and general manager, etc. successively; since January 2020, Mr. Zhang held the positions of general manager of CNMC Congo Company and president of Kambove Mining SAS. Mr. Zhang graduated from the Mine Survey Major of Shandong Institute of Mining and Technology in June 1984. Mr. Zhang has many years of overseas work experience and has rich practical experience in the operation of group company.

DIRECTORS AND SENIOR MANAGEMENT BIOGRAPHIES (CONTINUED)

Xingrong Du (杜興榮), aged 46, is a vice president of the Company, and was appointed as a member of senior management of the Company on 26 March 2020. He is a senior economist. From 2006 to 2013, Mr. Du served in Beijing Branch of Yunnan Copper Group Marketing Company and held the positions of general manager assistant, vice general manager and secretary of the Discipline Inspection Commission of Zambia Chambishi Copper Smelter Limited successively; from 2014 to 2018, Mr. Du served as vice general manager and member of the Party Committee of CNMC International Trading Co., Ltd. affiliated to China Nonferrous Metal Mining Group; since October 2018, Mr. Du served in China Nonferrous Mining Hong Kong Holdings Limited and held the positions of standing vice general manager, secretary of the Party Committee, vice general manager and president, etc. successively. Mr. Du graduated from the International Trade Major of Central University of Finance and Economics in July 1997 with academic degree of Doctor of Economics. Mr. Xingrong Du has 24 years of work experience in nonferrous metal industry and has worked overseas for many years, which endows him with rich practical experience in the operation of group company.

Jinping Ma (馬金平), aged 58, is a vice president of the Company, and was appointed as a member of the senior management of the Company on 25 February 2021, in charge of resource development, planning, coordination, etc. He is a professor-level senior engineer. Mr. Ma has served for the Central Iron & Steel Research Institute under the Ministry of Metallurgy and the overseas engineering department of China Nonferrous Metal Industry's Foreign Engineering and Construction Co., Ltd. Mr. Ma successively served as the deputy general manager, interim deputy secretary to the Party committee and secretary to the commission for discipline inspection, and interim secretary to the Party committee of NFC Africa Mining PLC (中色建設非洲礦業有限責任公司) from September 1998 to August 2003. He served as the general manager of CNMC China Nonferrous Metals Int'l Mining Co., Ltd. from August 2003 to April 2005. He successively served as the deputy general manager and a member of the Party committee of China Nonferrous Metal Industry's Foreign Engineering and Construction Co., Ltd. from April 2005 to February 2021. Mr. Ma graduated from the graduate faculty of the Center Iron & Steel Research Institute in June 1988 and obtained a master's degree in metal materials and heat treatment. Mr. Jinping Ma has 33 years of experience in the non-ferrous metal industry, and has worked overseas for many years with extensive practical experience in the operation of group companies.

Dayong Yang (楊大勇), aged 51, is a vice president of the Company and was appointed as and joined the senior management of the Company on 6 July 2019, who is in charge of planning coordination and project management. He was appointed as the chief compliance officer and a joint company secretary of the Company on 1 April 2020 and 27 April 2020, respectively. Mr. Yang commenced his career at the former Ministry of Foreign Trade and Economic Cooperation of the PRC (currently known as the Ministry of Commerce of the PRC ("MOFCOM")) in 1992. He used to serve as the deputy division head and the division head of the Department of Outward Investment and Economic Cooperation of the MOFCOM. Mr. Yang's rich public administration experience also includes his services at the Economic and Commercial Counsellor's Office of the Embassy of the PRC in the Swiss Confederation and the Economic and Commercial Counsellor's Office of the Embassy of the PRC in the Republic of France. From September 2012 to January 2019, Mr. Yang served as the deputy director of the strategic planning department (previously known as "strategic research office") of CNMC, a controlling shareholder of the Company. Mr. Yang has graduated from Beijing Foreign Studies University with a bachelor's degree in French language. From September 2011 to August 2012, Mr. Yang attended an international public administration study programme at École Nationale d'Administration as a candidate sponsored by the French government.

DIRECTORS AND SENIOR MANAGEMENT BIOGRAPHIES (CONTINUED)

Xinghua Liu (劉興華), aged 52, is the chief financial officer of our Company and was appointed as and joined the senior management of Company on 25 January 2016. He currently serves as a director of CNMHKI. He has 28 years of experience in financial management. Mr. Liu joined China 15th Metallurgical Construction Group Company Limited ("15th MCC") (中國十五冶金建設有限公司) (a subsidiary of CNMC) in 1992 and once served as the financial manager of the Fuzhou management team of the 15th MCC. He joined NFCA (a subsidiary of the Company) in 2002 and had successively served as the chief accountant, the deputy manager and the manager of its Financial Department, the deputy chief accountant and assistant to general manager. He joined our Company in 2016 and has served as chief financial officer ever since. Mr. Liu graduated from North China University of Technology with a bachelor's degree in accounting in 1992, and obtained a master's degree of engineering from University of Science and Technology Beijing in 2016. He also obtained the title of senior accountant in 2002.

Yuan Jiang (江源), aged 41, is a vice president of the Company and was appointed as and joined the senior management of the Company on 6 July 2019, who is in charge of the development of the overseas mineral resources. Mr. Jiang has over 14 years of experience in metal industry. From July 2006 to December 2016, Mr. Jiang successively served as the cadre of Department of Investment and Management, a deputy director and the director of Department of Project Development of CNMC. From December 2006 to December 2017, Mr. Jiang successively served as a deputy director (doctor service group of the Organisation Department of the Central Committee of the Communist Party of China ("CPC")) of management committee of export processing zone on a temporary basis in Beihai City, Guangxi Zhuang Autonomous Region. From December 2017 to December 2018, Mr. Jiang successively served as the assistant to general manager (doctor service group of the Organisation Department of CPC Central Committee) in International Port Group Co., Ltd. in Beibu Gulf, Guangxi Zhuang Autonomous Region. Mr. Jiang obtained a master's degree in mineral processing from Central South University in July 2006 and a doctoral degree of engineering in mining engineering from University of Science and Technology Beijing in January 2014. Mr. Jiang obtained the title of senior dressing engineer in 2012.

Note: Kaishou Xie (謝開壽) resigned as a vice president of the Company on 24 March 2020. Tongzhou Wang (王彤宙) resigned as the chairman of the Company on 4 September 2020. Wei Fan (范巍) and Lin Zhang (張麟) resigned as a vice president and the president of the Company, respectively, on 14 October 2020. For details of resigned senior management's biographies, please refer to the section headed "Directors and Senior Management Biographies" in 2018 Annual Report (Mr. Xie) and in 2019 Annual Report (Mr. Wang, Mr. Fan and Mr. Zhang) respectively.

DIRECTORS AND SENIOR MANAGEMENT BIOGRAPHIES (CONTINUED)

COMPANY SECRETARIES

Dayong Yang (楊大勇), aged 51, is a vice president, a joint company secretary and the chief compliance officer of the Company. Please refer to the paragraph headed “Senior Management” for his biography in details.

Man Yi Wong (黃敏儀), aged 45, has been appointed as a joint company secretary of the Company with effect from 27 April 2018. Ms. Wong has over 10 years of experience in company secretarial services industry. From March 2015 to January 2020, she was the company secretary of Hao Wen Holdings Limited (shares of which are listed on GEM operated by the Hong Kong Stock Exchange). Ms. Wong was previously a joint company secretary of the Company for the period from June 2012 to December 2013. Ms. Wong graduated from City University of Hong Kong with a Bachelor degree of Business Administration (Honours) in Business Management in 2006 and a Master of Science degree in Professional Accounting and Corporate Governance in 2009. Ms. Wong is an associate member of The Hong Kong Institute of Chartered Secretaries, The Chartered Governance Institute (formerly The Institute of Chartered Secretaries and Administrators) and The Taxation Institute of Hong Kong. She is a Certified Tax Adviser of Hong Kong.

Note: Aibin Hu (胡愛斌) resigned as the chief compliance officer and a joint company secretary of the Company on 1 April 2020. For details of Aibin Hu's biography, please refer to the section headed "Directors and Senior Management Biographies" in 2018 Annual Report.

CORPORATE GOVERNANCE REPORT

CORPORATE GOVERNANCE PRACTICES

The Board of Directors and the management of the Group are committed to achieving and maintaining high standards of corporate governance, which they consider critical in safeguarding the integrity of the Company's operations and maintaining investors' trust in the Company. None of the Directors is aware of any information which would reasonably indicate that the Company has not, for the year ended 31 December 2020, complied with the code provisions as set out in the CG Code.

The Company has applied the principles of the CG Code to its corporate governance structure.

CODE OF CONDUCT REGARDING SECURITIES TRANSACTIONS BY DIRECTORS

The Company has adopted a code of conduct regarding securities transactions by directors on terms no less exacting than the required standard of dealings as set out in the "Model Code for Securities Transactions by Directors of Listed Issuers as contained in Appendix 10 of the Listing Rules".

The Company had made specific enquiry to all the Directors and confirmed that all of them complied with the Model Code for the year ended 31 December 2020.

BOARD OF DIRECTORS

As at 31 December 2020, the Board comprised three executive Directors, namely Mr. Jinjun Zhang, Mr. Xiaowei Wang and Mr. Chunlai Wang; and three independent non-executive Directors, namely Mr. Chuanyao Sun, Mr. Jingwei Liu and Mr. Huanfei Guan. After the resignation of Mr. Tongzhou Wang as the Chairman of the Board on 4 September 2020, there was no Chairman of the Board of the Company as at 31 December 2020.

After the year ended 31 December 2020, on 8 January 2021, Mr. Jinjun Zhang was appointed as the Chairman of the Board and ceased to be the Vice Chairman of the Board.

CORPORATE GOVERNANCE REPORT (CONTINUED)

Save as disclosed in this annual report, to the best knowledge of the Company, there are no financial, business, family or other material relationships among members of the Board.



Lualaba Main Smelting Plant

For the year ended 31 December 2020, all the members of the Board and board committees actively attended relevant meetings. The attendances at the meetings of the Board and its committees and the annual general meeting held in person or through other electronic means of communication are as follows:

	Number of meetings held for the year ended 31 December 2020					AGM
	Board	Audit Committee	Nomination Committee	Remuneration Committee	Compliance Committee	
Mr. Jinjun Zhang	4/4	2/2	1/1	1/1	0/0	1/1
Mr. Xiaowei Wang	4/4	N/A	N/A	N/A	N/A	1/1
Mr. Chunlai Wang	4/4	N/A	N/A	N/A	N/A	1/1
Mr. Tongzhou Wang (resigned on 4 September 2020)	1/2	N/A	N/A	N/A	1/2	1/1
Mr. Lin Zhang (resigned on 14 October 2020)	2/2	N/A	N/A	N/A	N/A	1/1
Mr. Wei Fan (appointed on 24 March 2020 and resigned on 14 October 2020)	1/1	N/A	N/A	N/A	N/A	1/1
Mr. Kaishou Xie (resigned on 24 March 2020)	0/0	N/A	N/A	N/A	N/A	0/0
Mr. Chuanyao Sun	4/4	0/0	1/1	1/1	2/2	1/1
Mr. Jingwei Liu	4/4	2/2	1/1	N/A	N/A	1/1
Mr. Huanfei Guan	4/4	2/2	N/A	1/1	2/2	1/1

CORPORATE GOVERNANCE REPORT (CONTINUED)

The Board shall meet at least four times a year at approximately quarterly intervals. The Audit Committee shall meet not less than twice a year to review and discuss the interim and annual consolidated financial statements. The Compliance Committee shall meet at least two times a year to review the Company's internal control policies and corporate management. Both of the Nomination Committee and the Remuneration Committee shall meet at least once a year. In addition, the Chairman of the Board shall meet with independent non-executive Directors without the attendance of executive Directors at least once a year. The Company was in compliance with all the requirements in respect of meetings of Board committee throughout the year of 2020.



Main and auxiliary shafts of NFCA Southeast Mine

The Board is responsible for leading, supervising and managing the Company. Its main duties include but are not limited to: (i) formulating and reviewing the corporate governance policies and practice of the Company; (ii) reviewing and inspecting trainings and continuing development of Directors and senior management; (iii) reviewing and monitoring relevant policies and rules of the Company in relation to compliance with laws and regulations; (iv) developing, reviewing and monitoring the code of conduct and compliance manual applicable to employees and Directors; and (v) reviewing the Company's compliance with Corporate Governance Code and the disclosure of relevant information in the Corporate Governance Report. The Board supervises the business, strategy and decision making as well as performance of the Group, in a bid to achieve sound growth momentum to improve shareholder value. Each Director executes his duties in good faith and make objective decisions in compliance with requirements of applicable laws and regulations. The Board delegates day-to-day operations of the Company to the management of the Group and also instructs the management to implement the Board's decisions and resolutions. The delegated functions are periodically reviewed. Approval has to be obtained from the Board prior to any significant transaction being entered into. Non-executive Directors and independent non-executive Directors actively participated in the meetings of the Board and its committees to exercise their independent judgment on issues of strategy, policy, performance, accountability, resources, key appointments and standards of conduct of the Company. All of the non-executive Directors and independent non-executive Directors made positive contributions to the strategy and policies of the Company's development through independent, constructive and informed comments. In addition, the Board has also delegated various responsibilities to the Audit Committee, the Nomination Committee, the Remuneration Committee and the Compliance Committee.

CORPORATE GOVERNANCE REPORT (CONTINUED)

The Board also has a balance of skills and experience appropriate for the requirements of the Company's business and it ensures that changes to its composition can be managed without undue disruption. There is a sufficient number of non-executive Directors for their views to carry weight. As not less than one-third of the Board shall be made up of independent non-executive Directors, there is also a strong independent element on the Board, which facilitates the exercise of independent judgment by the Board. One of the independent non-executive Directors, Mr. Jingwei Liu, holds the appropriate professional qualifications as required under Rule 3.10(2) of the Listing Rules.

Directors are provided in a timely manner with appropriate information in the form and quality to enable them to make an informed decision and perform their duties and responsibilities.

Each newly appointed Director receives formal, comprehensive and tailored induction on the first occasion of his appointment, so as to ensure that he understands the business and operations of the Company and that he is fully aware of his responsibilities and obligations under the Listing Rules and other relevant regulatory requirements.

The Directors are continually provided with information relating to the developments in the legal and regulatory regime and the business and market environments to facilitate the execution of their responsibilities. Continuing briefings and professional development training for the Directors were arranged by the Company and its professional advisers.

During the year ended 31 December 2020, all the Directors took continuous professional development trainings in order to refresh their knowledge and skills and provided relevant records to the Company.

The types of trainings in which all Directors participated during 2020 are as follows:

	Type of Trainings
<i>Executive Directors</i>	
Mr. Jinjun Zhang (<i>re-designated as Executive Director on 14 October 2020</i>)	A, B
Mr. Xiaowei Wang	A, B
Mr. Chunlai Wang	A, B
Mr. Tongzhou Wang (<i>resigned on 4 September 2020</i>)	B
Mr. Lin Zhang (<i>resigned on 14 October 2020</i>)	A, B
Mr. Wei Fan (<i>appointed on 24 March 2020 and resigned on 14 October 2020</i>)	A, B
Mr. Kaishou Xie (<i>resigned on 24 March 2020</i>)	B
<i>Independent Non-Executive Directors</i>	
Mr. Chuanyao Sun	A
Mr. Jingwei Liu	A
Mr. Huanfei Guan	A

A: attending seminars, conferences and/or expert briefings relevant to the business or directors' duties

B: paying visits to the Group's local management and facilities

CORPORATE GOVERNANCE REPORT (CONTINUED)

Pursuant to Rule 3.13 of the Listing Rules, the Company has received written annual confirmation from each independent non-executive Director for his independence and considers that all independent non-executive Directors are independent in accordance with the guidelines set out in the Listing Rules.

The Company has arranged appropriate insurance cover in respect of legal action against all the Directors.

CHAIRMAN AND CHIEF EXECUTIVE

Code provision A.2.1 of the Corporate Governance Code provides that the roles of chairman and chief executive should be separate and should not be performed by the same individual. The division of responsibilities between the chairman and chief executive should be clearly established and set out in writing. The chairman provides leadership and is responsible for the effective functioning and leadership of the Board. The chief executive focuses on the Company's business development and daily management and operations generally. During the year ended 31 December 2020, Mr. Tongzhou Wang was the Chairman of the Board until he resigned on 4 September 2020. During the Year, Mr. Lin Zhang was the President of the Company until he resigned on 14 October 2020. Mr. Jinjun Zhang was appointed on the same day as the President of the Company. As at 31 December 2020, there was no Chairman of the Board, Mr. Jinjun Zhang was the President of the Company.

After the year ended 31 December 2020, on 8 January 2021, Mr. Jinjun Zhang was appointed as the Chairman of the Board and he remains as the President of the Company.

APPOINTMENT AND RETIREMENT OF DIRECTORS

In accordance with article 102 of the Articles of Association, at each annual general meeting, one-third of the Directors or, if their number is not three (3) or a multiple of three (3), the number which is nearest to and is at least one-third, shall retire from office by rotation at least once every three (3) years. A retiring Director shall be eligible for re-election. Pursuant to article 103 of the Articles of Association, the directors to retire by rotation shall be those who have been longest in office since their last appointment or reappointment, but as between persons who became or were last reappointed directors on the same day those to retire shall (unless they otherwise agree among themselves) be determined by lot. According to articles 102 and 103, Mr. Xiaowei Wang and Mr. Jingwei Liu shall retire at the forthcoming annual general meeting. They are eligible for re-election and will offer themselves for re-election. Pursuant to Code Provision A.4.3 of Appendix 14 Corporate Governance Code and Corporate Governance Report of Main Board Listing Rules, serving more than 9 years could be relevant to the determination of a non-executive director's independence. If an independent non-executive director serves more than 9 years, his further appointment should be subject to a separate resolution to be approved by shareholders. Mr. Jingwei Liu was appointed to the Board as an independent non-executive director since 27 April 2012. Mr. Liu will serve the Board for more than 9 years upon 27 April 2021. In view of this, the re-appointment of Mr. Jingwei Liu at the AGM will be subject to a separate resolution to be considered and approved by the Shareholders in accordance with the Listing Rules.

The Nomination Committee is responsible for reviewing the Board composition, developing and formulating the relevant procedures for nomination and appointment of Directors, monitoring the appointment and succession planning of Directors and assessing the independence of independent non-executive Directors.

CORPORATE GOVERNANCE REPORT (CONTINUED)

Each of the executive Directors has signed a service agreement and a supplemental service agreement with the Company for an initial term of three years and to renew for three years automatically (subject to termination in certain circumstances as stipulated in the relevant service agreement). Each of the non-executive Directors (including three independent non-executive Directors) has signed a letter of appointment and a supplemental letter of appointment with the Company for an initial term of three years and to renew for three years automatically (subject to termination in certain circumstances as stipulated in the relevant letters of appointment).

Save as disclosed herein, none of the Directors has or is proposed to have entered into any service agreement or letter of appointment with any member of the Group (excluding agreements expiring or determinable by any member of the Group within one year without the payment of compensation other than statutory compensation).

PRACTICES OF BOARD MEETINGS

Notices of regular Board meetings are given to all the Directors at least 14 days before the meetings. Schedules and agenda of each meeting are made available to the Directors in advance. All the Directors are given an opportunity to include matters in the agenda for regular Board meetings. For other Board and committee meetings, notices are given within reasonable time in advance. Minutes of all Board meetings and committee meetings are kept by the joint company secretaries and open for the Directors' inspection. Draft and final version of minutes are circulated to the Directors for their comments and records within a reasonable time after the Board meeting is held. Minutes of the meetings of the Board and Committees recorded sufficient details of the matters considered and decisions reached at relevant meetings, including any concerns raised by Directors or dissenting views expressed.

The Directors, upon reasonable request, will be provided with independent professional advice, at the Company's expense, to assist them to perform their duties. They may also have access to the senior management whenever necessary. Senior management would attend all regular Board meetings as and whenever necessary to report and advise the Board on business developments, financial and accounting matters, statutory and regulatory compliance, corporate governance and other major aspects of the Company. All Directors are entitled to have access to Board papers and related materials. The Company shall provide prompt and full responses to queries raised by the Directors as soon as it possibly can.

Pursuant to the provision of the Company's Articles of Association, a Director shall not vote nor be counted in the quorum at the Board meeting on any resolution approving any contract or arrangement or concerning a matter in which he or any of his associate(s) has, directly or indirectly, a material interest (other than an interest in shares, debentures or other securities of, or otherwise in or through, the Company) unless his interest arises because of specified matters set out in the Articles.

BOARD COMMITTEES

The Board has established the Audit Committee, the Nomination Committee, the Remuneration Committee and the Compliance Committee to oversee particular aspects of the affairs of the Company. Each of these committees is set up with specific written terms of reference and the same has been published on the website of Hong Kong Stock Exchange. Each committee is delegated with authorities and duties within its terms of reference. The agenda of Board committees and relevant documents will be sent to all Directors at least three days before the intended date of relevant meetings. Each committee shall report to the Board according to its terms of reference.

CORPORATE GOVERNANCE REPORT (CONTINUED)

AUDIT COMMITTEE

The Company has an audit committee which was established with written terms of reference in compliance with Rule 3.22 of the Listing Rules and paragraph C3 of the CG Code of the Listing Rules. The primary duties of the Audit Committee are to supervise the financial reporting process and internal control and risk management systems of the Group. As Mr. Jinjun Zhang has been re-designated as an executive Director on 14 October 2020, he has resigned as a member of the Audit Committee on the same day. Mr. Chuanyao Sun has been appointed as a member of the Audit Committee on 20 November 2020. As at the date of this report, the Audit Committee consists of three independent non-executive Directors as its members, being Mr. Jingwei Liu, Mr. Huanfei Guan and Mr. Chuanyao Sun. The chairman of the Audit Committee is Mr. Jingwei Liu. The Group's financial statements for the year ended 31 December 2020 have been reviewed by the Audit Committee, who was of the opinion that such statements complied with the applicable accounting standards, the Listing Rules and legal requirements, and that adequate disclosures had been made.

The Audit Committee is also responsible for overseeing and monitoring the risk management and internal control systems of the Company on an ongoing basis and review with our external auditors and management periodically, not less than once a year, the scope, adequacy and effectiveness of the Company's corporate accounting and financial controls, risk management and internal control systems and any related significant findings regarding risks or disclosure, and consider recommendations for improvement of such controls. The review should cover all material controls, including financial, operational and compliance controls. In conducting annual review, the Audit Committee should, in particular, consider the factors including (a) the changes, since the last annual review, in the nature and extent of significant risks, and the issuer's ability to respond to changes in its business and the external environment; (b) the scope and quality of management's ongoing monitoring of risks and of the internal control systems, and where applicable, the work of its internal audit function and other assurance providers; (c) the extent and frequency of communication of monitoring results to the board which enables it to assess control of the issuer and the effectiveness of risk management; (d) significant control failings or weaknesses that have been identified during the period. Also, the extent to which they have resulted in unforeseen outcomes or contingencies that have had, could have had, or may in the future have, a material impact on the issuer's financial performance or condition; and (e) the effectiveness of the issuer's processes for financial reporting and Listing Rule compliance.

The Audit Committee is also responsible for reviewing the Company's internal audit function, ensuring coordination within the Group and between the Company's internal and external auditors, and ensuring that the internal audit function is adequately resourced and has appropriate standing within the Company and to review and monitor its effectiveness.

The Audit Committee had reviewed the Group's unaudited financial statements for the six months ended 30 June 2020, the announcements on interim results and annual results, the interim report and annual report subject to the approval of the Board. It had advised the Directors on the audit report, accounting policies and comments.

CORPORATE GOVERNANCE REPORT (CONTINUED)

The Company's and the Group's audited financial statements for the year ended 31 December 2020 have also been reviewed by the Audit Committee, who was of the opinion that these statements complied with the applicable accounting standards, the Listing Rules and the legal requirements, and that adequate disclosures had been made.

For the Year, the Audit Committee held two meetings and the attendance records of individual members are set out below:

Name of Directors	Number of meetings attended/held
Mr. Jingwei Liu	2/2
Mr. Chuanyao Sun (<i>appointed on 20 November 2020</i>)	0/0
Mr. Huanfei Guan	2/2
Mr. Jinjun Zhang (<i>resigned on 14 October 2020</i>)	2/2

NOMINATION COMMITTEE

The Nomination Committee consists of three members. As at 31 December 2020, the Nomination Committee members were Mr. Chuanyao Sun and Mr. Jingwei Liu, being independent non-executive Directors, and Mr. Jinjun Zhang, being a non-executive Director. The chairman of the Nomination Committee is Mr. Chuanyao Sun, an independent non-executive Director. The Company has adopted the board diversity policy since 30 August 2013. The primary functions of the Nomination Committee include, but are not limited to, reviewing the structure, size, diversity (including but not limited to gender, age, culture and educational background), and composition of the Board of Directors, assessing the independence of independent non-executive Directors and making recommendations to the Board on matters relating to the appointment of Directors. The Nomination Committee is authorised by the Directors to obtain advice from external counsel or other independent professional consultants if necessary. It may invite external individuals with relevant experience and professional knowledge to attend the meeting when needed. The Nomination Committee will be provided adequate resources to perform its duties.

The Nomination Committee has fulfilled the primary duties mentioned above. At the meeting held by the Nomination Committee in 2020, it reviewed the structure, size, composition and diversity of the Board to ensure that the Board has a balance of expertise, skills and experience appropriate for the business of the Company, and assessed the independence of the independent non-executive Directors. The Nomination Committee reviewed the appointment of each Director prior to that Director seeking re-election at the forthcoming annual general meeting and was pleased to recommend the re-election of all the three eligible Directors to the Board.

CORPORATE GOVERNANCE REPORT (CONTINUED)

For the Year, the Nomination Committee held two meetings and the attendance records of individual members are set out below:

Name of Directors	Number of meetings attended/held
Mr. Chuanyao Sun	2/2
Mr. Jinjun Zhang	2/2
Mr. Jingwei Liu	2/2

Nomination Process

The Nomination Committee shall assess whether any vacancy on the Board has been created or is expected on a regular basis or as required.

The Nomination Committee utilises various methods for identifying director candidates, including recommendations from Board members, management, and professional search firms. All Director candidates, including incumbents and candidates nominated by Shareholders are evaluated by the Nomination Committee based upon the Director qualifications. While Director candidates will be evaluated on the same criteria through review of resume, personal interview and performance of background checks, the Nomination Committee retains the discretion to establish the relative weighting of such criteria, which may vary based on the composition, skill sets, age, gender and experiences of the collective Board rather than on the individual candidate for the purpose of diversity perspectives appropriate to the requirement of the Company's business.

Selection Criteria

The Nomination Committee will take into account whether a candidate has the qualifications, skills, experience and gender diversity that add to and complement the range of skills, experience and background of existing Directors by considering the highest personal and professional ethics and integrity of the director candidates, proven achievement and competence in the nominee's field and the ability to exercise sound business judgment, skills that are complementary to those of the existing Board, the ability to assist and support management and make significant contributions to the Company's success and such other factors as it may deem are in the best interests of the Company and the Shareholders.

Board Diversity Policy

The composition of the Board is reviewed on an annual basis by the Nomination Committee to ensure that the Board has the appropriate mix of expertise and experience, and collectively possesses the necessary core competence for informed decision-making and effective functioning. The Company adopted its own board diversity policy and recognises the benefits of having diversity in the composition of the Board.

CORPORATE GOVERNANCE REPORT (CONTINUED)

The Company noted that that people from different background and with different professional and life experience are likely to approach problems in different ways and accordingly, members of the Board with diverse background will bring different concerns and questions to the table, and allow the Board to consider a wider range of options and solutions when deciding on corporate issues and formulating policies for the Group. In determining the Board's composition and selection of candidates to the Board, the Nomination Committee will consider factors including but not limited to gender, age, cultural and educational background, ethnicity, professional experience, skills, industry knowledge and length of service.

All Board appointments will be based on meritocracy, and candidates will be considered against the selection criteria, having regard for the benefits of diversity on the Board, the business model and specific needs of the Group. The ultimate decision will be based on merit and contribution that the selected candidates will bring to the Board.

Composition of the Diversified Board

As at the date of this annual report, the Board comprises six Directors. The following table further illustrate the composition and diversity of the Board in terms of age and length of service with the Group, educational background and professional experience as at the date of this annual report:

Name of Director	Age Group		Length of Service	
	50 to 59	60 or above	less than 3 years	more than 3 years
Mr. Jinjun Zhang	✓			✓
Mr. Xiaowei Wang	✓		✓	
Mr. Chunlai Wang		✓		✓
Mr. Chuanyao Sun		✓		✓
Mr. Jingwei Liu	✓			✓
Mr. Huanfei Guan		✓		✓

Name of Director	Educational Background			Professional Experience		
	Economics	Mining	Accountancy	Mining	Accounting and Finance	Management
Mr. Jinjun Zhang		✓		✓		✓
Mr. Xiaowei Wang		✓		✓		✓
Mr. Chunlai Wang		✓		✓		✓
Mr. Chuanyao Sun		✓		✓		
Mr. Jingwei Liu			✓		✓	✓
Mr. Huanfei Guan	✓				✓	✓

CORPORATE GOVERNANCE REPORT (CONTINUED)

REMUNERATION COMMITTEE

The Remuneration Committee consists of three members. As at 31 December 2020, the Remuneration Committee members are, Mr. Huanfei Guan and Mr. Chuanyao Sun, being independent non-executive Directors, and Mr. Jinjun Zhang, being a non-executive Director. The Remuneration Committee is chaired by Mr. Huanfei Guan, an independent non-executive Director. The primary duties of the Remuneration Committee include, but are not limited to, the following: (i) making recommendations to the Board on the Company's policy and structure for all remuneration of the Directors (including executive Directors) and senior management and on the establishment of a formal and transparent procedure for development policy on such remuneration; (ii) reviewing and approving performance-based remuneration by reference to corporate goals and objectives resolved by the Board from time to time; (iii) evaluating the performance of executive Directors; and (iv) approving the terms of executive Directors' service contracts. The Remuneration Committee is authorised by the Directors to obtain advice from external counsel or other independent professional consultants if necessary. It may invite external individuals with relevant experience and professional knowledge to attend the meeting when needed. The Remuneration Committee is provided with adequate resources to perform its duties.

The remuneration payable to each of the directors is determined by the Remuneration Committee with reference to his contribution of time, effort and expertise on the Company's matters.

The Remuneration Committee of the Company has performed the primary duties mentioned above.

For the remuneration of the Directors for the year ended 31 December 2020, please refer to note 12 to the audited consolidated financial statements of this annual report.

Please see below for the remuneration of the senior management of the Company by band for the year ended 31 December 2020:

	Number of senior management
HK\$0 to HK\$500,000	11
HK\$500,001 to HK\$1,000,000	2
HK\$1,000,001 to HK\$1,500,000	4
Over HK\$1,500,000	1

For the Year, the Remuneration Committee held two meetings and the attendance records of individual members are set out below:

Name of Directors	Number of meetings attended/held
Mr. Huanfei Guan	2/2
Mr. Jinjun Zhang	2/2
Mr. Chuanyao Sun	2/2

CORPORATE GOVERNANCE REPORT (CONTINUED)

COMPLIANCE COMMITTEE

The Compliance Committee consists of three members. Mr. Tongzhou Wang resigned as the Chairman of Compliance Committee on 4 September 2020. Mr. Jinjun Zhang was appointed as the Chairman of Compliance Committee on 20 November 2020. As at the date of this report, the Compliance Committee members are Mr. Jinjun Zhang, an executive Director, Mr. Chuanyao Sun and Mr. Huanfei Guan, being independent non-executive Directors. Mr. Jinjun Zhang is the Chairman of the Compliance Committee. The primary functions of the Compliance Committee include, but are not limited to, overseeing and monitoring the compliance status of the Company's business and operations based on the applicable legal and regulatory requirements as well as the Company's own internal control policies and procedures; reviewing regular and special reports submitted by the compliance principal in each subsidiary and requiring such compliance principals to prepare specific reports dealing with particular internal control or compliance issues for review; holding regular meeting to discuss, investigate and make plans for the legal and compliance matters; formulating and reviewing the Company's policies and practice on corporate government and making recommendations to the Board; and reviewing the Company's compliance with the Corporate Governance Code set out in the Listing Rules and disclosure in the Corporate Governance Report section of the Company's annual report.

The Compliance Committee has performed the primary duties mentioned above.

For the Year, the Compliance Committee held two meetings and the attendance records of individual members are set out below:

Name of Directors	Number of meetings attended/held
Mr. Tongzhou Wang (<i>resigned on 4 September 2020</i>)	1/2
Mr. Chuanyao Sun	2/2
Mr. Huanfei Guan	2/2
Mr. Jinjun Zhang (<i>appointed on 20 November 2020</i>)	0/0

INDEPENDENT AUDITOR

The Group's independent external auditor is Deloitte Touche Tohmatsu ("Deloitte"). Deloitte is responsible for presenting independent opinions on the consolidated financial statements of the Group in accordance with the results of their auditing work, and reporting to the Shareholders on the same. Apart from the statutory audit of the annual consolidated financial statements, Deloitte was also engaged to perform a review of the interim consolidated financial statements of the Group for the six months ended 30 June 2020 and to provide assurance service on continuing connected transactions.

The remuneration paid to Deloitte and its affiliates in respect of audit services and other non-auditing services (those are, review of the interim condensed consolidated financial statements of the Group, tax consulting services for subsidiaries located in Zambia and Ireland and consulting services in respect of risk management and internal control) for the year ended 31 December 2020 amounted to US\$835,000 (RMB3,660,000 and US\$305,000) and US\$336,000 (RMB1,710,000, HK\$340,000 and US\$44,000) respectively.

CORPORATE GOVERNANCE REPORT (CONTINUED)

COMPANY SECRETARIES

Mr. Aibin Hu resigned as a joint company secretary of the Company on 1 April 2020. Mr. Dayong Yang has been appointed as a replacement on 27 April 2020, after a waiver to the Company from strict compliance with the requirements under Rule 3.28 and Rule 8.17 of the Listing Rules for a period of three years starting from the date of Mr. Yang's appointment, has been granted by the Stock Exchange. As at the date of this report, Mr. Dayong Yang and Ms. Man Yi Wong are the joint company secretaries of the Company.

Before Mr. Aibin Hu's resignation as a joint company secretary on 1 April 2020, Ms. Man Yi Wong's primary corporate contact person at the Company was Mr. Aibin Hu. Ms. Wong's primary contact person at the Company has been changed to Mr. Dayong Yang since 2 April 2020. The joint company secretaries have taken no less than 15 hours of relevant professional training during the year. Joint company secretaries of the Company shall report to chairman of the Board and/or chief executive.

FINANCIAL REPORTING

The Directors acknowledge their responsibility for preparing the consolidated financial statements of the Group, which were prepared in accordance with statutory requirements and applicable accounting standards. The management has provided detailed explanation and information to the Board, which will enable the Board to make informed assessment on the financial and other information put before the Board for approval. Updated information has been provided by the management to members of the Board on a monthly basis, containing fair and understandable assessment on performance, financial condition and prospect of the Group.

The auditor's report for the consolidated financial statements for the year ended 31 December 2020 is set out on pages 130 to 134 of this annual report.

RISK MANAGEMENT AND INTERNAL CONTROL

The Group is dedicated to maintaining and establishing quality corporate governance. Pursuant to code provisions of the Corporate Governance Code set out in Appendix 14 of Listing Rules, basic standards, guidelines for evaluation as well as other requirements under relevant laws and regulations, the Group has conducted self-evaluation on the effectiveness of its internal control in respect of design and operation. As at 31 December 2020, the internal control for businesses and matters involved in self-evaluation has been established and has operated effectively. Thus the internal control objective of the Group was achieved and the internal control of the Group was sound and effective.

The Board recognises its responsibility for maintaining an adequate and sound internal control system and assesses its effectiveness of internal control on a regular basis. Through the Audit Committee, the Compliance Committee and an external firm of qualified accountants providing internal control services, the Board conducts reviews on the effectiveness of these systems at least once a year, covering all material controls, including financial, operational and compliance controls, and risk management functions. In addition, the review also considers the adequacy of resources, staff qualifications and experience, training programmes and budget of the Group's accounting and financial reporting function.

CORPORATE GOVERNANCE REPORT (CONTINUED)

We note that risk management and internal control shall be in line with the Group's operation scale, business scope, competition and risk level, and shall be adjusted in a timely manner according to changes in circumstances. During the year: we 1) further set up the comprehensive management system and mechanism for legal and compliance works; 2) engaged Deloitte Touche Tohmatsu CPA Ltd. and China Energy Conservation Environmental Advisory Group Co., Ltd. to organise and conduct two special programmes, namely "Risk Management and Internal Control System" and "Environmental, Social and Corporate Governance", with an aim to independently assess risk management, internal control system, environmental, social and corporate governance of the Group. These programmes laid a solid foundation for the enhancement of corporate governance structure and level of the Group; 3) improved management level with additional training. In 2019, the Board reviewed the risk management and internal control of the Group. The Compliance Committee held two meetings to plan for legal and compliance management works. In addition to the training provided by Baker & McKenzie to Directors, senior management and compliance management personnel, in relation to risk management, internal control, environmental, social and corporate governance, the company secretary and other compliance management personnel also attended various professional trainings provided by the Hong Kong Institute of Chartered Secretaries, with an aim to continuously improve the awareness for compliance and prevention of legal risks and refresh professional skill sets of themselves and other compliance staff.

RISK MANAGEMENT AND INTERNAL CONTROL REPORT

I. Responsibilities

The Board of the Company is fully responsible for maintaining a sound and effective risk management and internal control system, while the management is responsible for the design and implementation of the risk management and internal control system to manage the risks. The Board further clarifies that a sound and effective risk management and internal control system is designed to identify and manage the risk of failure to achieve business objectives, and only makes reasonable, but not absolute, assurance against material misstatement or loss.

II. Risk Management and Internal Control Structure of the Company

The Board is responsible for the Company's risk management and internal control system and reviews its effectiveness periodically. The Audit Committee and the Compliance Committee assist the Board in monitoring the Company's risk tolerance level, the designs of the risk management and internal control system and their operational effectiveness.

CORPORATE GOVERNANCE REPORT (CONTINUED)

The Company strictly complies with the requirements of the Listing Rules and relevant laws and regulations on inside information management, and strictly supervises the dealing and publishing of inside information to keep such information in confidentiality before being disclosed, and be disclosed in an accurate and timely manner.

The Audit Committee will continuously supervise and monitor the Company's risk management and internal control system, and will review with external auditors and senior management of the Company in a certain scope on a regular basis (at least once a year) the scope, adequacy and effectiveness of the Company's accounting and financial monitoring, risk management and internal control systems, as well as any relevant significant findings relating to risks or disclosure, and consider making recommendations for improvement of such controls. An annual review covers all material monitoring, including financial monitoring, operational monitoring and compliance monitoring. The matters that the Audit Committee reviews include, among others, the following:

- (a) discussing the changes, since the last annual review, in the nature and extent of significant risks, and the Company's ability to respond to changes in its business and the external environment;
- (b) the scope and quality of the continuous monitoring of risk management and internal control system by senior management, as well as (where applicable) internal audit functions and works of other assurance providers;
- (c) reporting on the extent and frequency of communication of monitoring results to the Board to enable the Audit Committee to assess control of the Company and the effectiveness of risk management;

CORPORATE GOVERNANCE REPORT (CONTINUED)

- (d) significant control failings or weaknesses that have been identified during the reporting period and the extent to which they have resulted in unforeseen outcomes or contingencies that have had, may have or may in the future have, a material impact on the Company's financial performance;
- (e) the effectiveness of the Company's procedures on financial reporting and the compliance of the Listing Rules;
- (f) discussing the risk management and internal control system with senior management in order to ensure the proper establishment and maintenance of effective systems by senior management in the performance of its duties. The discussion should include the adequacy of resources, staff qualifications and experience, training programmes and budget of the Company's accounting, internal control and financial reporting functions;
- (g) considering major findings from investigation on risk management and internal control matters as delegated by the Board or on its own initiative and considering management's response to these findings;
- (h) reviewing the internal audit function, to ensure co-ordination between the internal and external auditors of the Company, to ensure that the internal audit function is adequately resourced and has appropriate standing within the Company, and to review and monitor its effectiveness;
- (i) reporting to the Board of any actions that have been noted and which, depending on their severity, should be brought to the attention of the Board in respect of any alleged fraud, non-compliance, failure of risk management and internal control system, or alleged violations and irregularities, and to review the internal investigation findings of any alleged fraud, non-compliance, failure of risk management and internal control system, or alleged violations and irregularities in financial reporting; and
- (j) reporting to the shareholders in the Corporate Governance Report its annual review of the effectiveness of risk management, internal control system and internal audit functions, or whether additional internal audit functions are required and explain why this function is not available (as the case may be), in order to make sure that the Company has complied with the disclosure requirements under the code provisions on risk management and internal control in the Corporate Governance Code and Corporate Governance Report under the Listing Rules.

CORPORATE GOVERNANCE REPORT (CONTINUED)

The responsibilities of the Compliance Committee in risk management and internal control shall include, but are not limited to:

- (a) devising mechanisms and procedures and making recommendations on improving the internal control system;
- (b) improving and reviewing the effectiveness of the Company's risk management and internal control policies and making recommendations on their improvement;
- (c) overseeing and monitoring the compliance of the Company's business and operations in accordance with applicable legal and regulatory requirements as well as with the risk management and internal control policies and procedures;
- (d) fostering a conducive compliance and risk culture within the Company and considering key risk and compliance issues in relation to the Company's commercial activities.

CORPORATE GOVERNANCE REPORT (CONTINUED)

Risk Management Structure of the Company

Top-down: monitor, identify, assess and control the risks at corporate level	Board		Audit Committee	Compliance Committee
	<ul style="list-style-type: none">Fully responsible for the Company's risk management and internal control systemSet up strategic objectives to review the effectiveness of the Company's risk management and internal control system	<ul style="list-style-type: none">Assess and define the nature and extent of the risksProvide guidance on the importance of risk management and promote the risk management culture	<ul style="list-style-type: none">Continuously monitor the Company's risk management and internal control system and regularly review the scope, adequacy and effectiveness of the Company's accounting and financial monitoring, and risk management and internal control system	<ul style="list-style-type: none">Assist the Board in improving and checking the effectiveness of the Company's risk management and internal control policies and make recommendations for their improvement
Bottom-up: identify, assess and control the risks of business units at operations level	Management		Internal audit	
	<ul style="list-style-type: none">Design, implement and monitor risk management and internal control systemAssess the risks to the Company and its control measures		<ul style="list-style-type: none">Assist the Audit Committee in reviewing the effectiveness of the Company's risk management and internal control system	
	Business units at operations level			
	<ul style="list-style-type: none">Identify, evaluate and manage business risks		<ul style="list-style-type: none">Implement risk management procedures and internal control measures within each operational and functional scope	

III. Risk Management and Internal Control Model

The risk management and internal control model of the Company is based on the model set down by the Committee of Sponsoring Organizations of the U.S. Treadway Commission (COSO), and has five components, namely: internal environment, risk assessment, control activities, information and communication, and internal supervision. In developing our internal control model based on the internal control model set by COSO, the Company has taken into consideration its organisation structure and nature of business activities.

CORPORATE GOVERNANCE REPORT (CONTINUED)

Internal Environment – This creates suitable conditions for the risk management and internal control of the Company. The Company formed a management style focusing on corporate governance, and built a corporate culture with good professional ethics and accountability. The Company has formulated the Code on Corporate Governance Practices and promoted it to all employees. The Internal Control Management Manual of the Company has full coverage of the organisational structure, development strategies, human resources, social responsibility, corporate culture and other internal environment aspects, aims to build risk awareness and internal control responsibility into our culture and is regarded as the foundation of the Company's internal controls system.

Risk Assessment – The Company formed a risk management system for risk identification, risk analysis, risk assessment and risk response. The Board, management and all employees work together for continuing promotion of risk management. A law and compliance department was established by the Company to regularly follow up on risk management work, to prepare a compliance report every month so as to track the risk situation of the enterprise and to integrate the risk management function into the daily management work and the scope of business operation and functions of each enterprise. Meanwhile, the Company proactively conducted identification and assessment of key risks and analyzed and coped with risks in a timely manner.

Control Activities – The Company's core businesses of mining, ore processing, smelting and sales of copper have all established mature operational processes. The Company and all the investees have formed a sound system covering every production and business activity at the business and financial level. Besides, the Company has strengthened its information automation programme to effectively set restrictions on power and implement the separation of duties. With the help of digital technology, the operating efficiency was promoted.

Information and Communication – The Company established a sound information communication mechanism, for example, it promulgated the "Management System of Information Disclosure of China Nonferrous Mining Corporation Limited" and the "Management System of Financial Information Disclosure of China Nonferrous Mining Corporation Limited", set up a periodic reporting mechanism of monthly compliance information including statutory matters, internal control system, legal cases and related party transactions, and the Company continuously supervises and manages the financial information and compliance information of all the investees. All the investees have established a unified business finance management system to strengthen the integration and sharing of information.

Internal Supervision – The supervision procedure is organised and started by the Board, the Audit Committee and the Compliance Committee, and performed by the Legal and Compliance Department and the internal auditor. The Audit Committee and the Compliance Committee shall hold at least two meetings a year, to continuously monitor the risk management and internal control system. At management level, the Company has a complaint channel to carry out anti-fraud monitoring work, and the Legal and Compliance Department will arrange reviews on the risk management and internal control system annually.

CORPORATE GOVERNANCE REPORT (CONTINUED)

IV. Review on the Effectiveness of the Risk Management and Internal Control System in 2020

The Company has organised an overall review on the risk management and internal control system in 2020. As at 31 December 2020, as confirmed by the management, the Board considered the risk management and internal control system effective and sufficient and did not identify any significant issues that may affect the Company's financial monitoring, operational monitoring, compliance monitoring and risk management functions.

During the course of review, the Board considered that the resources available to, qualifications and experience of staff responsible for the Company's accounting, internal audit and financial reporting, training and budget were sufficient.



Huachin Leach Plant Area

V. Further Reinforcing the Company's Risk Management and Internal Control System

The Company has further reinforced its risk management and internal control system, with focus on the following:

Internal Environment – Maintaining Organisational and Personnel Stability

In the general context of the spread of the COVID-19 pandemic in 2020, while taking production into consideration, the Company actively took various measures to combat the pandemic, so as to guarantee life safety and health of its employees. While prioritising its employees' safety, the Company managed to maintain basic stability in its management, employees and organisational structure of the Company, which laid the foundation of human resources for its subsequent further development of operation and business.

CORPORATE GOVERNANCE REPORT (CONTINUED)

Risk Assessment – Mitigating Major Operational Risks

The Company continued its risk assessment work and treated prevention from and fight against pandemic and stability security for the supply chain as major events in which operational risks are needed to be prevented and controlled in the year. During its daily course of business, the Company and all its investees formulated emergency plans to prevent and combat pandemic in accordance with the actual local conditions and took initiative to stockpile various materials for pandemic prevention. Meanwhile, the Company facilitated development of inter-connected solutions to safeguarding stability in the supply chain, took full consideration internal and external available factors in all aspects, and actively resolved major operational risks by various channels and means.

Control Activities – Improving Operational Management Level

To tackle the adverse effects of the COVID-19 pandemic on its daily operations and to enhance the efficiency of its operational management and control, the Company and all its investees carried out automation upgrading on control activities in various processes, including production and inventory management, financial management, human resources management, fixed asset management, capital management and tax management, mainly by means of various information technologies, so as to promote sustainable development of the Company.

Information and Communication – Promoting the integration of industry and finance

Focusing on an unified financial execution information system and taking innovation and efficiency enhancement as a starting point, the Company and all its investees comprehensively promoted information integration and interaction in such areas as finance, procurement, inventory, production and sale, so as to improve the Company's production and operation level. For example, taking the direction towards digitization as the development baseline, NFCA planned the connection and linkage among people, objects and numbers in a scientific way, and promoted breaking down the original boundaries of production automation and management informationization, so as to break through data silos and realise synergy.

Internal Supervision –Fully Implementation of Evaluation on Internal Control System

On the basis of the conventional annual internal control evaluation, the legal and compliance department organised a special evaluation on risk management and internal control system in 2020 to carry out a thorough and holistic evaluation of the risk management and internal control system of the Company and all the investees. The annual special evaluation covers many aspects such as corporate governance, financial supervision, business operation and compliance supervision.

CORPORATE GOVERNANCE REPORT (CONTINUED)

VI. Future Development

Developing a risk management system that will be used by each operating unit to manage and control risks is an ongoing process. The Company will continue to enhance its risk management and control capabilities, improve its internal control structure, and strive to integrate risk management and internal control into its business processes.

VII. Risk Factors of the Company

As the basis for the risk management policy, the Company should be aware of the risk factors and risk changes it is currently exposed to. The following table sets out the nature and risk changes of some of the significant risks to the Company.

Risks	Description of risks change	Risks change in 2020
Political environment	<ul style="list-style-type: none"> Affected by the global COVID-19 pandemic, the DRC's social and economic conditions deteriorated and political conditions gradually became tense; Zambia's domestic political conditions basically remained stable, with economic and social development sinking into a downward channel. 	Increased
Operating environment	<ul style="list-style-type: none"> The global COVID-19 pandemic has caused disruptions to the mineral import and export trade and the supply chain industry, resulting in rising uncertainties in the operating environment. 	Increased
Product price	<ul style="list-style-type: none"> In 2020, copper prices rose significantly following a short decline earlier in the year, representing a significant increase as compared to 2019 in general. 	Reduced
Provision of raw materials	<ul style="list-style-type: none"> The Company has adopted a variety of methods to obtain mineral resources to ensure the supply of raw materials. 	Maintained

CORPORATE GOVERNANCE REPORT (CONTINUED)

Risks	Description of risks change	Risks change in 2020
Production management	<ul style="list-style-type: none"> • In response to the impact of the COVID-19 pandemic on life safety of production personnel, the Company has adopted a number of more stringent production and management measures than before, such as restricting access to production and living areas and strengthening hygiene and pandemic prevention requirements, so as to ensure that daily production and operations are not affected. • The integrated exploration and construction project of the southeast mine of NFCA with an ore processing capacity of 3,300,000 tonnes per annum was completed and put into operation on 1 July 2020. • The reconstruction and expansion project of CNMC Huachin Mabende with a processing capacity of 15,000 tonnes underwent trial operation at the end of June 2020, and was successfully completed and achieved full connection between the new system and the old one, being put into operation. 	Maintained
Asset management	<ul style="list-style-type: none"> • Thanks to the overall significant increase in copper prices in 2020, inventory-related impairment risks were reduced; the integrated exploration and construction project of the southeast mine of NFCA and the reconstruction and expansion project of CNMC Huachin Mabended have been put into full operation, resulting in a decrease in the pressure on construction and management of the project. 	Reduced

CORPORATE GOVERNANCE REPORT (CONTINUED)

Risks	Description of risks change	Risks change in 2020
Foreign exchange management	<ul style="list-style-type: none"> The exchange rate of ZMK against the US dollar marked continuous drop in 2020. Changes in exchange rates had an adverse impact on production and operation. 	Increased
Legal litigation	<ul style="list-style-type: none"> There still existed various types of proceedings, but the cases were under good management. 	Maintained

COMMUNICATION WITH SHAREHOLDERS AND INVESTORS

The Group emphasises the importance of maintaining good communication with the Shareholders and investors, so as to increase the Group's transparency and facilitate the performance of undertaking by the Shareholders. The annual general meeting provides a useful forum for Shareholders to exchange views with the Board. The chairman of the Board will attend and invite the chairmen of the Audit Committee, the Remuneration Committee and the Nomination Committee to attend the annual general meetings. The members of the Board are pleased to answer Shareholders' questions. To foster two-way communication amongst the Group, its Shareholders and potential investors, the Group has assigned personnel in respect of investor relations to respond to enquiries from Shareholders and the public. In the event that a Shareholder wishes to put forward a proposal to the Board, he may put forth his enquiry in writing to the investor relations personnel who will handle the same accordingly. The Group is also willing to maintain communication with shareholders and investors on a continuous basis through individual and group meetings. In addition, the Group is committed to maximising the use of its website as a channel to provide updated information in a timely manner and strengthen the communication with both the Shareholders and the public.



Outstanding Listed Company Award granted by IFAPC in 2013



President's Award granted by the Community Chest of Hong Kong

CORPORATE GOVERNANCE REPORT (CONTINUED)

Pursuant to code provision E.1.3 of CG Code, the Company shall arrange for the notice to shareholders to be sent for annual general meetings at least 20 clear business days before the meeting and to be sent at least 10 clear business days for all other general meetings.

Pursuant to Articles of Association, any extraordinary general meeting at which the passing of a special resolution is to be considered shall be called by notice of not less than 21 clear days. All other extraordinary general meetings may be called by notice of not less than 14 clear days but if permitted by the Articles of Association, a general meeting may be called by shorter notice.

In addition, in accordance with the provisions of the Articles of Association, an extraordinary general meeting may be convened on requisition as provided by the Companies Ordinance. According to the Companies Ordinance, the directors are required to call a general meeting if the company has received requests to do so from shareholders of the company representing at least 5% of the total voting rights of all the shareholders having a right to vote at general meetings. Such meeting must be held on a date not more than 28 days after the date of the notice convening the meeting. The directors also have a duty to circulate a resolution proposed as a written resolution by a shareholder (together with any statement of not more than 1,000 words on the subject of the resolution proposed by the shareholder) if the company has received such requests from the shareholders of the company representing not less than 5% of the total voting rights of all the shareholders entitled to vote on the resolution.

Shareholders may at any time send their enquiries and concerns to the Board in writing at Unit 1303, 13/F, Austin Tower, 22–26 Austin Avenue, Tsimshatsui, Kowloon, Hong Kong. Sufficient contact details are available to enable these enquiries to be properly attended to.

All resolutions put forward at a general meeting will be taken by poll pursuant to the Listing Rules except where the chairman, in good faith, decides to allow a resolution which relates purely to a procedural or administrative matter to be voted on by a show of hands. In addition, the poll results will be posted on the websites of the Company and the Hong Kong Stock Exchange after the relevant shareholders' meeting. Sufficient contact details are available for shareholders to send their advice.

CORPORATE GOVERNANCE REPORT (CONTINUED)

Dividend Policy

The Company adopted a policy on payment of dividends (the “Dividend Policy”) in March 2019, which establishes an appropriate procedure on declaring and recommending the dividend payment of the Company.

The Company will declare and/or recommend the payment of dividends to the Shareholders after considering the Company’s ability to pay dividends, which will depend on a number of factors, including but not limited to:

- (i) the Group’s actual and expected financial performance;
- (ii) the Group’s expected working capital requirements, capital expenditure requirements and future expansion plans;
- (iii) retained profits and distributable reserves of the Company and each of the members of the Group;
- (iv) the Group’s liquidity position;
- (v) the general economic conditions and other internal or external factors that may have an impact on the business or financial performance and position of the Group; and
- (vi) any other factors that the Board deems relevant.

The Board has complete discretion on whether to pay a dividend, subject to Shareholders’ approval, where applicable. Even if the Board decides to recommend and pay dividends, the form, frequency and amount will depend upon the operations and earnings, capital requirements and surplus, general financial condition, contractual restrictions and other factors of and affecting the Group. The Board may also consider declaring interim dividends from time to time.

The Company shall review and reassess the Dividend Policy and its effectiveness on a regular basis or as required.

CORPORATE GOVERNANCE REPORT (CONTINUED)

INVESTOR RELATIONS

There has been no changes to the Company's Articles of Association during the year ended 31 December 2020.

The Group strongly believes that investor relations are an integral part of maintaining good corporate governance of a listed company. During the reporting period, the Group has been actively maintaining contact with investors and keeping them abreast of the latest industry updates, corporate communications and business development in a timely manner, so as to establish a platform for fair, open and transparent information disclosure. Mr. Dayong Yang is responsible for the investor relations of the Group with the full support from the Board and the senior management. Mr. Yang can be contacted by email at yangdy@cnmc.com.cn, by telephone at +86 10 8442 6373 and by fax at +86 10 8442 6376, Ms. Nuo Xu, the deputy manager of general affairs department, can be contacted by email at xun@cnmc.com.cn and by telephone at +86 10 8442 6082. During the Year, the Group actively participated in various investor relations activities and provided on-time information to investors through its company website.



Awards of Exemplary Organization for Promoting China-Zambia Friendship and Excellent Chinese Enterprise in Zambia granted to NFCA and Luanshya by the Chinese Embassy in Zambia

CORPORATE GOVERNANCE REPORT (CONTINUED)

CONTINUOUS IMPROVEMENT OF INVESTOR RELATIONS

The Group published interim and annual results and disclosed discloseable inside information promptly in strict compliance with guidelines of Securities and Futures Commission and Hong Kong Stock Exchange, to provide financial performance, operating strategies and future prospects of the Company to the public in an accurate and effective manner.

The Group maintained close relationships with certain institutions including professional media outlets and investment banks, in a view to learn about the market recognition and expectation to the Group through various channels such as the media and analysts. In the meantime, the Group provided updates to the public in a bid to increase the Group's publicity.

The Company's website is considered to be one of the quickest means to communicate with investors. Through on-going information dissemination, the Group's website (www.cnmccl.net) serves as a platform to communicate with the public. The Group regularly updates the website contents, disseminates the latest updates, so as to enable the public to obtain such information in a timely manner. In 2020, the Group has published 45 announcements and 18 articles on company dynamics on its website. In addition, the Group also swiftly responds to different enquiries made by the Shareholders, investors, analysts and media by means of email, facsimile and telephone. The Group also published announcements, press releases and other latest updates on the development of the Group, so as to strengthen the effectiveness of information dissemination.



Compliance Taxpaying Cup granted to SML by Zambia Revenue Authority



Award of Advanced Central Enterprise to CCS granted by the Ministry of Human Resources and Social Security of the People's Republic of China and the State-owned Assets Supervision and Administration Commission of the State Council

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

ABOUT THIS REPORT

Overview

The Group is pleased to release the fifth Environmental, Social and Governance Report (the “Report”), which is intended to provide relevant stakeholders with the environmental, social and governance (ESG) performance of the Group, so as to let them have a more comprehensive understanding of the Group’s sustainable development philosophy.

Scope of Reporting

This Report covers the head office of the Group and its subsidiaries including NFCA, Luanshya, CCS, SML, Huachin Leach, CNMC Huachin Mabende and Lualaba Copper Smelter, as well as the sales of copper and sulfuric acid products, the main source of revenue of the Group, in the period from 1 January 2020 to 31 December 2020 (the “Reporting Period”) unless otherwise stated. KAMBOVE MINING SAS, being a subsidiary of the Group, is not disclosed in the Report as it is still under construction and has not commenced formal production.

Preparation Basis

This Report has been prepared by the Group in compliance with the ESG Reporting Guide (2016 edition) (the “Guide”) set out in Appendix 27 to the Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong Limited published by the Hong Kong Stock Exchange and in compliance with the “comply or explain” provisions under the Guide and on the basis of four reporting principles of materiality, quantification, balance and consistency.

The Group also made reference to the GRI Sustainable Development Report Standards (GRI Standards) of the Global Reporting Initiative (GRI) and the United Nations Global Compact in the process of stakeholder surveys and report preparation in order to demonstrate our performance in respect of sustainable development in a more comprehensive way.

Reliability Assurance

The Board of Directors of the Group is responsible for formulating ESG strategies and for the contents of this report. The information and cases disclosed in this report are from the Group’s internal documents, statistical reports or relevant public information. The Group assures that the contents of this report, for which the Company accepts full responsibility for its truthfulness, accuracy and completeness, are free of any false statements, misleading representations or material omissions.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Access and Feedback to the Report

The Report is published in the 2020 Annual Report of China Nonferrous Mining Corporation Limited. The electronic copy of this report is available on the website of the Hong Kong Stock Exchange (<https://www.hkexnews.hk>) and the official website of China Nonferrous Mining Corporation Limited (<http://www.cnmccl.net/Home>). Your valuable feedback is critical to our continuous improvement. If you have any enquiries and suggestions, please call +8610-8442 6373 or 8610-8442 6851.

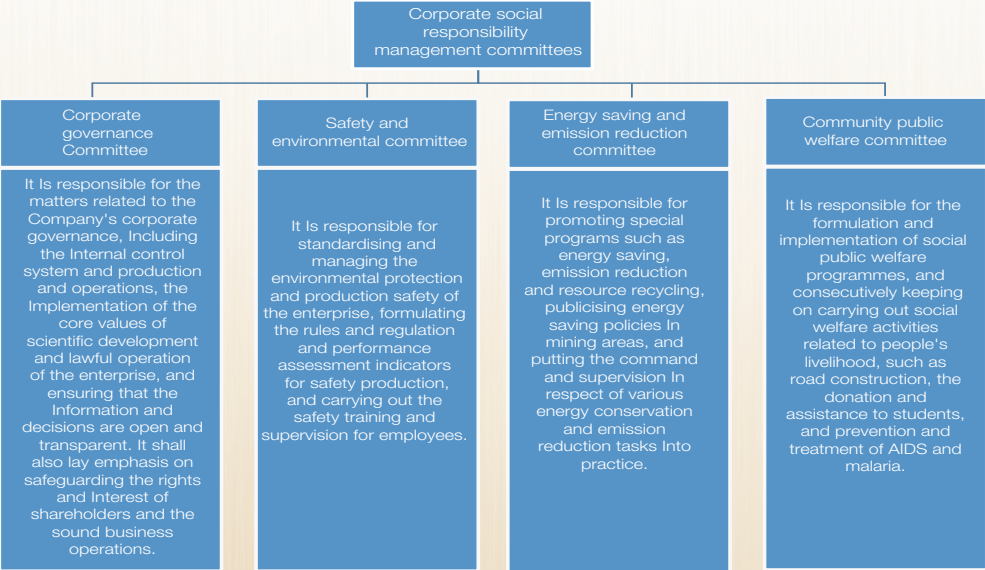
Sustainable Development Management

The Group is committed to establishing and maintaining a high standard of corporate governance so as to achieve sustainable development. The Group has established a sound and prudent risk management and internal control system, which is maintained and improved by the Board and designed and implemented by the management. In order to proactively address ESG-related risks, the Group has integrated ESG risk management into the Group's risk management system in respect of four aspects comprising risk identification, risk analysis, risk assessment and risk response. The Board is responsible for assessing and determining ESG risks to ensure the effectiveness of the ESG risk management and internal control system.

In order to improve the governance structure and enhance the governance level of the Group, we have engaged an external consulting firm to organize special work to conduct an independent evaluation of the operation of ESG management of the Group. The Group will gradually establish a top-down ESG management pattern, in which the senior management of the Company is responsible for planning, coordinating and reviewing ESG-related matters, and the person in charge of the general affairs department of the head office of the Group will communicate with persons in charge of each subsidiary and follow up on the implementation of the relevant ESG plans. The relevant persons in charge of each subsidiary are responsible for the specific implementation of the ESG plans and report the progress to the person in charge of the general affairs department of the head office of the Group. The Group will continue to promote the ESG management and optimize the ESG management pattern in accordance with the requirements of the Hong Kong Stock Exchange and the actual condition of the Group, so as to make ESG management more systematic and professional.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

NFCA is also improving the corporate social responsibility management committees, and according to the scope of social responsibility, it has set up four sub-committees thereunder, being corporate governance committee, safety and environmental committee, energy saving and emission reduction committee and community public welfare committee, have also been set up, which help the Group formulate a clear corporate responsibility development direction and effectively penetrate corporate responsibility into all aspects of corporate operations, so as to establish responsibility tracking and appraisal mechanism.



Corporate social responsibility management committees of NFCA

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Communication with Stakeholders

Keeping continuous communication with stakeholders is an indispensable part of the Group's daily operations and also one of the important ways to review potential risks and opportunities. We actively strengthen communication and maintain good relationships with our stakeholders, so as to understand their expectations and suggestions for the Group to promote common development.

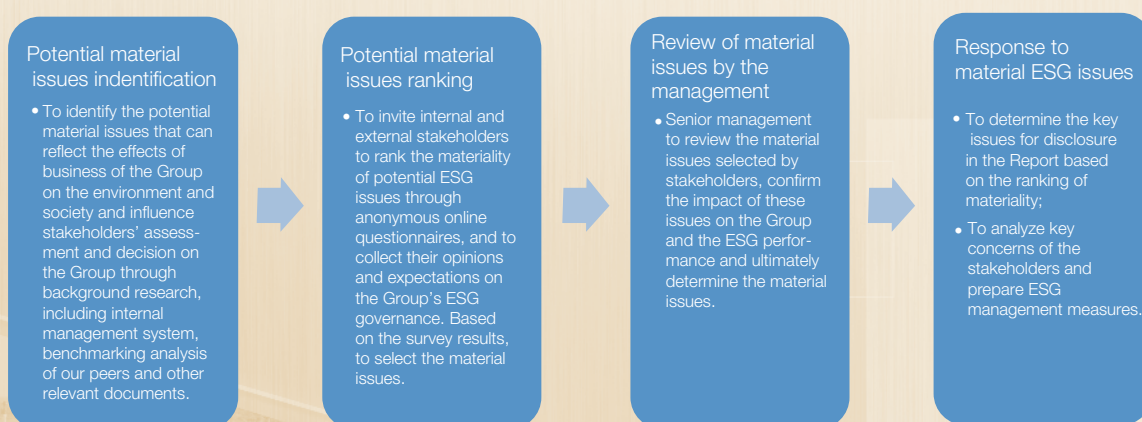
Stakeholders	Expectations	Means of communication	Frequency of communication
Governments and regulatory authorities	Obeying disciplines and laws Compliance operation Paying taxes according to law	Policy formulation Work report Information disclosure	On a regular/irregular basis
Shareholders and investors	Operational performance Profit of the Company Corporate governance	Shareholders' meeting Periodic report Results announcement Roadshow	On an annual/quarterly/irregular basis
Employees	Remuneration and benefits Health and safety Vocational training	Employees' meeting Labour contract Employees' activity	On a regular/irregular basis
Clients	Quality control Service assurance	Contract and agreement Customer service Website of the Company	On an annual/quarterly/irregular basis
Suppliers	Fairness and justice Mutually beneficial cooperation	Contract and agreement Work meeting Evaluation from the supplier	On a regular/irregular basis
Communities	Protecting community environment Harmonious development	Community communication Charitable donation	On a regular/irregular basis

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Analysis on Material Issues

Material issues refer to issues that can reflect the material effects of business of the Group on the environment and society and the stakeholders' expectations for the Group.

The Group continued to improve the identification and materiality determination process of ESG issues, disclosed targeted material issues to respond to the concerns of various stakeholders on our fulfillment of social responsibility, and strengthened the management of material issues in our daily operations. Based on the results of 2019 annual survey on material issues, we reviewed and identified relevant ESG issues with reference to the Guide, the GRI Sustainable Development Report Standards and the United Nations Global Compact, as well as the results of benchmarking analysis of our peers. Then, after giving due consideration to the nature of business and development strategies, the Group collected stakeholders' opinions through questionnaires and analyzed the development trends of our peers to assess and select material ESG issues during the Reporting Period, and arrived at the materiality analysis results. In the process of assessment, we have considered not only the impact of the issues on the Group and stakeholders, but also their impact on economy, environment and society impact. The analysis results were reviewed by the senior management of the Company and the material ESG issues finally determined will be highlighted in the Report.

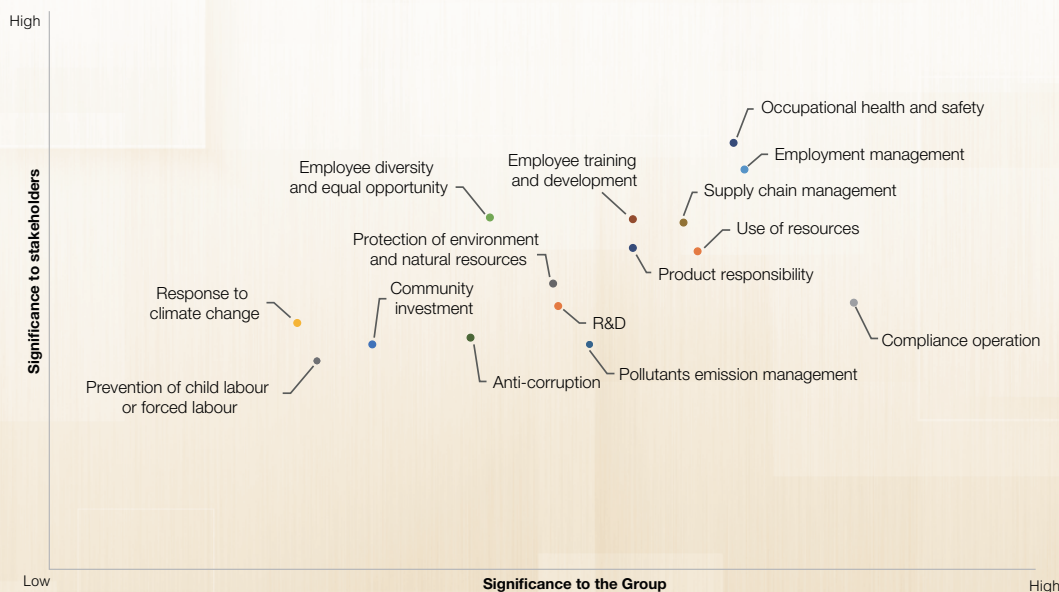


Steps for assessing material issues

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

We actively invited the internal and external stakeholders of our Group to participate in this survey on material issues so as to understand the concern and attention that they attach to the ESG issues of the Group. We received a total of 543 responses to the questionnaire in this survey, and based on the analysis results, we formed the following matrix of material issues.

Matrix of Analysis on the Materiality of ESG Issues of the Group for the year of 2020






The senior management of the Company considered, reviewed and determined the results of the material issues analysis in terms of sustainability contribution, general concerns of stakeholders and the needs of strategic development of the Group, and finally selected the following ten material ESG issues. Those issues will serve as an important factor taken into account for the direction of sustainable development of the Group, and are also the key content for disclosure in the Report.

Occupational health and safety	Employment management	Supply chain management	Use of resources	Compliance operation
Employee training and development	Product responsibility	Protection of environment and natural resources	Pollutants emission management	R&D

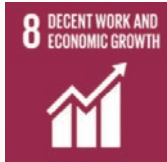


ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Sustainable Development Actions




The Group is well aware of the importance of global sustainable development. With the sustainable development goals set out in the UN document headed "Transforming Our World: The 2030 Agenda for Sustainable Development" as a benchmark, we have identified those sustainable development goals which may affect the Group, integrated them into the process of sustainable development management of the Group, continuously improved our operation strategy, and disclosed the actions taken by the Group in response to those goals.

United Nations Sustainable Development Goals	Definition of the goals	Actions taken by the Group	Relevant chapters in this report
 <p>3 GOOD HEALTH AND WELL-BEING</p>	Ensure healthy lives and promote well-being for all at all ages.	<ul style="list-style-type: none"> • Provided medical benefits and allowances to our employees and their family, and strengthened the promotion, prevention, monitoring and treatment of epidemic infectious diseases with high incidence in part regions of Africa. • Formulated and implemented road safety-related policies, and established environmental protection management measures against exhaust gas, sewage and solid waste during the mining process to control pollution emissions from the source. 	PEOPLE-ORIENTED PRINCIPLE, GREEN DEVELOPMENT
 <p>4 QUALITY EDUCATION</p>	Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all.	<ul style="list-style-type: none"> • Formulated and implemented internal policies in relation to employee training, carried out training adapted for different fields, and set up post self-study awards. • Provided opportunities for the children of outstanding local employees to study in China. • Supported local communities in the education cause in and provided educational subsidies to impoverished students. 	PEOPLE-ORIENTED PRINCIPLE, CONTRIBUTION TO COMMUNITY
 <p>6 CLEAN WATER AND SANITATION</p>	Ensure availability and sustainable management of water and sanitation for all.	<ul style="list-style-type: none"> • Followed the principle of recycling, and recycled and evaporated, after filtration of scum, production sewage, respectively, through copper leaching process and copper smelting process. • Discharged office and domestic sewage after treatment to reduce pollution. 	GREEN DEVELOPMENT

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

United Nations Sustainable Development Goals	Definition of the goals	Actions taken by the Group	Relevant chapters in this report
 <p>8 DECENT WORK AND ECONOMIC GROWTH</p>	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.	<ul style="list-style-type: none"> Eliminated use of child labor and forced labor, signed labor contracts with employees, and protected the legitimate rights and interests of employees. Signed recognition agreements with many labor unions to ensure equal opportunities for employees. Provided priority employment opportunities to the local society. Formulated and implemented internal policies and emergency plans in relation to occupational health and safety. Equipped employees with personal protective equipment, strengthened occupational safety training, conducted hazard monitoring and assessment, and purchased insurance for employees. 	PEOPLE-ORIENTED PRINCIPLE
 <p>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</p>	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.	<ul style="list-style-type: none"> Formulated and implemented internal policies in relation to patent application and intellectual property protection. Intensified R&D and innovation of mining process, and formulated corresponding mining plans. Encourage production and management personnel to put forward constructive opinions on issues in production links such as quality control and high energy consumption. Assisted some local communities in improving infrastructure construction, including well drilling, community maintenance and reconstruction, emergency repair of circuits, road repairs, etc. 	MANAGEMENT EXCELLENCE, CONTRIBUTION TO COMMUNITY
 <p>10 REDUCED INEQUALITIES</p>	Reduce inequality within and among countries.	<ul style="list-style-type: none"> Made continuous improvement in the corporate management system, and specified corporate management rules in accordance with relevant regulatory requirements. Adhered to the principles of equality, diversity and anti-discrimination, and treated employees of different nationalities, races, and genders equally. Provided priority employment opportunities to the local society. Formulated and implemented internal policies in relation to community donation. 	MANAGEMENT EXCELLENCE, PEOPLE-ORIENTED PRINCIPLE, CONTRIBUTION TO COMMUNITY

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

United Nations Sustainable Development Goals	Definition of the goals	Actions taken by the Group	Relevant chapters in this report
 <p>12 RESPONSIBLE CONSUMPTION AND PRODUCTION</p>	Ensure sustainable consumption and production patterns.	<ul style="list-style-type: none"> • Took business sustainability into consideration during operation, and disclosed relevant information to the public. • Formulated and implemented internal policies in relation to environmental management. • Established management measures on waste gas, sewage, solid waste and ecological environment to reduce the impact of business operations on the environment. • Carried out resource management in terms of business operation, office and life, and improved the comprehensive utilization of resources in all aspects of the business. • Attached importance to R&D and innovation, and made relentless efforts to improve the mining process. 	GREEN DEVELOPMENT
 <p>15 LIFE ON LAND</p>	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.	<ul style="list-style-type: none"> • Monitored the water quality of surrounding rivers. • Carried out afforestation activities. 	GREEN DEVELOPMENT
 <p>16 PEACE AND JUSTICE STRONG INSTITUTIONS</p>	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels.	<ul style="list-style-type: none"> • Formulated and implemented internal policies in relation to anti-corruption. • Provide employees with training on anti-corruption. • Established a reporting and complaint mechanism to report misconduct within the enterprise. 	MANAGEMENT EXCELLENCE

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

MANAGEMENT EXCELLENCE

Compliance Operation

The principal operations of the Group are located in Zambia and the DRC in Africa. We have strictly abided by the laws and regulations of the PRC, Zambia, the DRC and other places where we operate, consistently improved our management system, continued to optimise our corporate governance structure, and followed market rules and business ethics, and thus we have steadily enhanced the Group's international competitiveness.

The Group has developed internal management systems including the Rules of Procedure of General Meetings, and the meetings of the Board of Directors and the President Office of China Nonferrous Mining Corporation Limited (《中國有色礦業有限公司股東大會、董事會暨總裁辦公會議事規則》) and the Administrative Rules of General Meetings and the Board of Directors of Investees of China Nonferrous Mining Corporation Limited (《中國有色礦業有限公司出資企業股東會、董事會管理規則》) in accordance with relevant regulations including the Companies Ordinance in the Hong Kong area and the Listing Rules of the Hong Kong Stock Exchange and in compliance with the Articles of Association, to clarify the implementation rules for corporate governance.

Nomination Committee, Remuneration Committee, Compliance Committee and Audit Committee have been set up under the Board of Directors of the Group, which are responsible for the management and maintenance of the personnel structure, employee rights and interests, sustainable development compliance and corporate compliance operations, respectively. In addition, in order to better adapt to the legal systems of Zambia and the DRC, the Group has set up a compliance officer/corporate general counsel and the legal and compliance department to ensure the legal compliance of the overseas production and operation activities.

Construction of Integrity-based Governance

Any non-compliance including bribery, blackmail, extortion and money laundering are strictly prohibited by the Group. We strictly abide by the Anti-Unfair Competition Law of the People's Republic of China, the Anti-Corruption Act of 2012 of Zambia as well as Corruption, Illegal income, Influence Peddling and Misconduct of Civil Servant (section 7 under chapter 9 of part 2 of the Criminal Code of the DRC) and other relevant laws and regulations, have formulated the Related Party Transaction Management Rules, Reporting and Complaints Management Rules, Anti-fraud Regulations, the Implementation Measures for Corruption Risk Prevention and Control and other internal management rules, and continuously improve the anti-corruption management system and integrity-based governance rules, thus enabling anti-corruption work to be done in a standard, systematic and normalized way.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

In order to strengthen the supervision mechanism, the Company included the construction of integrity-based governance into the plan, conducted internal supervision, and investigated and punished cases of discipline violation. The employees' awareness of integrity and self-discipline have also been raised continuously by regularly organising middle- and high-level employees to learn anti-corruption policies, and carrying out integrity-based education and admonishing talks. We encourages employees to report inappropriate behaviors. Reporting emails and telephones have been set up by the Company and its subsidiaries, and relevant complaints are dealt with by specialised agencies. In case that any serious violations are found, they will be dealt with by the regulatory department.

The Group adopts strict management measures on key anti-corruption steps including bidding and purchasing, and clearly sets out relevant anti-corruption clauses in the purchasing contract to ensure that the bidding process is open and transparent and to prevent any activities regarding fraud. During the Reporting Period, there was no litigation against or corresponding penalty imposed on the Group due to bribery, blackmail, extortion and money laundering.

Product Responsibility

Taking “sustainable utilisation of resources” and “realisation of high-quality development” as its objects and with the enhancement of quality, benefits and core competitiveness as its focus, the Group continues to promote the standardisation on the management of products responsibility, so as to achieve an improved utilisation rate of resources, safe and clean production, reduced production costs, and increased product quality and economic benefits, and thus provide high-quality products to our customers in a consistent way.

The Group has continuously improved its product quality management system. Luanshya has been granted the ISO 9001 quality management system certificate, and formulated the Measures for Quality Management of Strip Mine Project (《露天礦工程質量管理辦法》) and other corresponding management measures to standardise the management of the whole process including product exploitation, production and sales, to comprehensively implement product responsibilities. In order to ensure product quality, a quality inspection center has been set up by both Luanshya and SML, conducting inspections at all stages in the process of production. If any quality problems are found in the process, relevant departments will carry out research and handle them to ensure that customers are provided with high-quality products. The daily operation of the Quality Inspection Center is managed through the System for Quality Control of Quality Inspection Center (《質檢中心質量控制制度》), and staff carry out work by strictly abiding by the rules and regulations thereunder. The quality inspection of the Group's products is carried out in accordance with the relevant national inspection and quality standards. The quality of copper cathodes are tested based on the national standards GB/T467-2010 for Copper Cathode in the People's Republic of China, while the quality of copper concentrate are tested with the standard for method of scientific analysis on copper concentrate under the national standards GB/T3884.1-3884.10-2000 in the People's Republic of China.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

The Group is committed to providing customers with quality products and services and pledged to continuously perfect the operation model. Once we receive complaints from our clients, we will immediately arrange relevant responsible departments to deal with them, report them to the management, and make understanding to the relevant departments, put forward solutions, and communicate with customers in a timely manner.

During the operations, we strictly keep confidential for the material non-public information of partners and clients, to prevent disclosure and loss of sensitive information.

During the reporting period, the Group complied with the laws and regulations in relation to health and safety, advertising, labeling and privacy of our products and services in China and places where we operate our projects, and we did not receive any complaints or legal proceedings regarding violations thereof.

R&D and Innovation

Technological R&D and innovation constitutes important work for the Group. We expect to improve the use efficiency of resources and product quality by utilising advanced technologies. The Group proactively encourages production and management personnel to spontaneously propose constructive suggestions on production processes including quality control and high energy consumption and conduct continuous innovation. Meanwhile, our subsidiaries have formulated the Interim Measures for Patent Application Process and Awards of CNMHK, the (Interim) Measures for Protection of the Intellectual Property Law of CNMC Luanshya Copper Mines PLC and other relevant measures according to the Patent Law of the People's Republic of China, the Trademark Law of the People's Republic of China, the Copyright Law of the People's Republic of China and other laws and regulations, which specify the patent application procedures and award standards, helped to protect the intellectual property of the Group and strengthened core competitiveness of the enterprise.

Supply Chain Management

The Group adheres to the principle of "Fairness, Openness and Justice" and the efficient and transparent code of conduct to establish long-term cooperative relationships with suppliers. In order to reduce the environmental and social risks brought by unscrupulous suppliers, our subsidiaries have formulated the Interim Measures for the Management of Bidding and Purchasing of Materials of China Nonferrous Mining Hong Kong Holdings Limited (《中色香港控股有限公司物資採購招標管理暫行辦法》), and Lualaba Copper Smelter has formulated the Compilation of the Management Measures for the Supply Department (《供應部管理辦法匯編》) and other internal management documents, so as to improve the mechanisms in respect of the supervision, review and management on suppliers. Considering that our suppliers are located in different countries and regions, an online supplier management system has been adopted by most subsidiaries for establishing a supplier management file, so as to save data and facilitate management.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

When selecting suppliers, we comprehensively take into consideration their performance including the compliance procedures, the quality of products supplied, the delivery period, product prices, after-sale services and other factors. According to relevant regulations of the management measures, the Group will arrange personnel to conduct on-the-spot investigation and reviews based on actual conditions of the Company before entering into contracts with new suppliers, thus to ensure that the quality and operations of suppliers meet the requirements of the Group. Annual assessment to suppliers is conducted by the Group with filling in the Qualified Supplier Review Form. In addition to quality and service, we also attach importance to suppliers' environmental and social performance, including sustainable development management standards, environmental management, employment of child labour or forced labour, etc. The unqualified suppliers will be warned or disqualified based on the degree of violation.

Subject to the premise that our selection standards are met, the Group will prioritise local suppliers and establish long-term and stable cooperative relationship to promote local employment and economic development. We also help suppliers improve their management level and quality of products and services, and urge them to fulfil their environmental and social responsibilities, so as to achieve win-win cooperation.

As at the end of the reporting period, the Group's subsidiaries had a total of 453 suppliers, of which 397 were from the locations where the projects were operated and 56 were from regions other than where the projects were operated. All of the Group's suppliers have implemented the relevant supplier management practices.

SAFETY DEVELOPMENT

Safety has always been a top priority for the Group as a corporate responsibility. Following the philosophy that "production safety underpins the existence of an enterprise", the Group adheres to the safety production principle of "safety first, prevention as the core and comprehensive governance", establishes a sound and long-term mechanism for safety production, enhances safety production management, and improves employees' safety awareness, endeavouring to achieve the target of "zero injury" and guarantee life safety and health of employees.

Safety System

The Group strictly abides by Mines and Minerals Development Act No.11 of 2005, Factories Act Chapter 441 of the Laws of Zambia, Law No.007/2002, the Mining Code and other relevant laws and regulations, and have developed certain policy documents including Safety Production Responsibility System, the Measures for Safety Production Management, the Measures for Appraisal of Safety Production and the Rules for Report, Investigation and Handling of Production Safety Accidents, to effectively manage its production activities and safety issues.

The Group has been constantly improving the safety management system and promoting systematic, normalized, standard and scientific safety management through safety management organisation, safety performance assessment, safety inspection and rectification, safety emergency management, safety education and training and occupational health protection.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

- **Safety management organization**-The Group arranges responsible persons in charge of production safety based on position levels, with general manager or an eligible mine manager as the primary person in charge of production safety and the responsibilities of persons in charge of production safety at all levels being clearly defined. It establishes a safety and environmental protection department as special safety management function and allocates a reasonable number of full-time safety management personnel to form a safety management system covering the general manager, the safety and environmental protection department, workshops and grass-root teams to guarantee production safety.
- **Safety performance assessment**-The Group establishes the production safety performance system and assessment mechanism for persons in charge of units at all levels and conducts overall appraisal on safety management system, safety accident performance, potential hazards inspection and rectification as well as education and training on safety to increasingly improve safety management performance.
- **Safety inspection and rectification**-The Group follows the principle of “potential hazards amount to accidents” and pays continuous attention to safety inspection and rectification. It actively conducts identification, assessment and control on sources of danger and forms a safety inspection and rectification management model with self-inspection of departments and monitoring and inspection by the safety and environmental protection department. It will also publish the contents of safety inspection and the rectification results to promote monitoring and management, discover and eliminate potential hazards in time and prevent and reduce safety accidents.
- **Safety emergency management**-Based on the characteristics of production and operation, the Group establishes a mine rescue team, formulates various emergency plans and proactively conducts exercises, effectively improving the capability of the rescue team and relevant departments to cope with safety incidents.
- **Safety education and training**-The Group establishes a “three-tier” safety training system consisting of enterprise, workshop and shift to provide staff with induction training, routine safety training and special operation training. It also conducts regular qualification inspection, assessment and issuance of certificate for special operation personnel. In addition, the Group regularly conducts the “safety promotion month” and safety skills competitions to enhance staff’s safety awareness and skills.
- **Occupational health protection**-In addition to ensuring that its plants conform to local occupational health standards, the Group consistently improves working conditions and environment of its overseas operations. It also regularly assesses risk factors relating to occupational diseases and provides appropriate labour protection articles and occupational health examination to staff exposed to occupational disease risks to prevent them from occupational diseases.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Safety Operation

Bearing in mind that safety production is the top priority and liability as a sublime mission, the Group makes every effort to build an impregnable fortress of safety production. It adopts advanced, mature and reliable process and equipment and formulates targeted standard operating procedures on process and equipment. It sets eye-catching safety signs for the areas and equipment prone to accidents or endangering the safety and health of personnel to prevent safety accidents. Safety management and shift responsible persons hold a meeting before changing shift every day to explain key potential risk points before each operation and conduct operation protection. For special operation such as mine construction, safety management will check special operation files, operators' qualification and on-site equipment safety on time.

The Group also pays attention to safety management on contractors. It requires contractors to abide by local laws and regulations as well as relevant safety rules of the Group. Prior to the construction of projects, we assist contractors in preparing the risks assessment report to clarify their safety responsibilities and safety protection measures. During the construction of projects, we regularly or irregularly visit contractors' site and conduct safety quality check for critical sections. After the construction of projects, we conduct completion acceptance and overall assessment on contractors covering their safety performance.

Case: Work Safety Inspection in CCS

In order to effectively implement safety production, comprehensively inspect and manage safety risks and hidden dangers, and prevent the occurrence of various accidents, from 17 to 25 December of 2020, CCS went through thorough work safety inspection. In this work safety inspection, the safety production inspection team conducted a full-coverage and seamless safety inspection of all production areas in accordance with the actual situation of each plant and workshop. The main inspection items include:

- The implementation of the three-year action for specific rectification of the safety production problems and the construction and operation of the dual prevention system;
- Records of learning and training of rules and regulations by each department, and records of safety training for new staff;

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

- The smelting, loading, lifting and casting of high temperature molten metal;
- The use of critical sites such as chemical, oil and sulphuric acid depots;
- The safety status of the tailing ponds;
- The records of the inspection and rectification of hidden dangers in each department;
- The implementation of fire-fighting facilities, emergency lighting, indication signs, evacuation routes and safety exits in the factory area in compliance with the relevant standards; and
- The use, maintenance and management of important facilities and equipment such as pressure vessels, safety valves and lifting equipment.

A total of 43 problems were inspected during the production safety inspection in CCS, and a statistical table of the status of rectification was formed to follow up on the progress of rectification.



Safety inspection of tailing ponds



Safety inspection of chemical library



Inspection of hidden dangers in acid production



Inspection of on-site hidden dangers

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Occupational Health and Safety

In order to strengthen the protection of the safety of the staff during production and reduce occupational safety risks, the subsidiaries of the Group have compiled and implemented a series of occupational health and safety policies and emergency plans including the Regulations on Emergency Management of Production Safety, the Muliashi Open Pit Safety Procedure of 2010, the Road Safety Rules, the Procedure for Emergency Response- Chemical Spillage, Administrative Measures on Industrial Injury Accidents, Administrative Measures on Labour Protective Supplies, Administrative Measures on Staff Health Examinations, etc., and have carefully implemented the management work regarding employees' occupational health, which include warning and notification of occupational disease hazards, occupational disease prevention education, maintenance of protective equipment and facilities, monitoring and evaluation of hazards, reporting of hazard incidents and emergency rescue, and so on.

The Group has provided employees with complete labour protective supplies according to working environment, including those for protection of head, breathing, eyes and face, ears, hand, foot, body, skin care, falling prevention and so on. Regular examinations of those protective supplies are carried out, and any staff who accesses to production zone must wear necessary protective gears.

With respect to potential injury accidents, each department is delegated with clear functions and responsibilities, and rescue and first-aid work will be carried out as early as possible when accident occurs. The person in charge shall count the number of casualties and report it to the Group and consulate overseas within 6 to 24 hours depending on the severity of the accidents upon receiving the report of the occurrence of accidents. An investigation team will be set up to investigate accidents, analyse the cause and publish a report on that, and propose rectification measures, draw lessons from the accidents that have occurred, and strive to reduce the risks of the occurrence of potential accidents at the mine area.

The Group has continuously improved our occupational safety and health protection system, purchased social insurance, medical insurance and other commercial insurance for eligible staff and offer health examinations every year and set up health record for our employees, to create a safe, healthy and comfortable working environment for employees.

During the COVID-19 pandemic (the "COVID-19 pandemic"), the Group strictly implemented the "Big lockdown, small quarantine, same rules and regulations as well as prevention and control, categorization and implementation of policies and attention to details", and "normalised" prevention and control measures for the pandemic in accordance with the local pandemic situation, i.e. the "three ratings" of high, medium and low pandemic risk areas, the "three areas" of workplace pandemic risk areas including external contact areas, mixed work areas and internal control areas, the "three categories" of red, yellow and blue personnel management areas including employees in contact with external personnel, employees in contact with category 1 personnel and employees with no contact with the outside, and the "three levels" of light, heavy and urgent risk prevention and control measures of the pandemic areas.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Case: Centralized quarantine site in Luanshya was put into operation

In March 2020, in the face of the sudden outbreak of COVID-19, Luanshya took swift action to rationalize the deployment of frontline and auxiliary system staff to meet the needs of the minimum number of staff to maintain stable production. In order to reduce the risk of infection among staff, Luanshya transformed the dormitory campus of its subordinate vocational and technical institute into a centralized quarantine site for staff, and arranged for staff to stay in the dormitory and implemented closed-off management. In addition to purchasing sufficient supplies for employees to meet their basic needs, Luanshya also set up recreation rooms for employees and provided mental health counselling services to protect their physical and mental health.



The park after clearing the weeds



The dormitory hallway after disinfection

Health and Safety Training

In order to enhance staff's safety awareness, develop their ability to respond to emergencies and reduce occupational safety and health risks, the Group proactively organises related training, integrating the concept of occupational safety into daily operations. In the on-the-job safety training, we introduce the Group's policies and regulations on safety to our staff, such as the "three major regulations and five provisions" on safety introduced by CNMHK in safety training, i.e. Engineering Safety and Hygiene Regulations, Technical Regulations on Construction Installation Safety, Regulations on Report of Workers' Casualties, safety production responsibility system, labour protection plan, safety production education, regular inspection of safety production, and investigation and handling of casualties. We also illustrate major hazard sources, principal danger and hazard factors in mine field and response measures, ways to deal with chemicals, occupational hazard prevention measures in details to our employees. Furthermore, we regularly carry out fire emergency evacuation and other types of emergency response drills, so as to enhance the staff's health and safety awareness.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)



Training on safety operating procedures of NFCA



Emergency Response Competition of NFCA

Case: “Work Safety Month” Activities of Huachin Leach

June is the Group’s Work Safety Month every year. Over the years, the Group has continuously carried out its “Work Safety Month” activities. During the reporting period, Huachin Leach organized a series publicity and education activities themed of “Eliminating hidden dangers of accidents and building up safety prevention”, focusing on reform and development, safety management, pandemic prevention and control, accident prevention and knowledge of safety laws and regulations to achieve the goals of strengthening “Red Line” awareness, promote the Group’s safety culture and management, popularize safety knowledge, further enhance the safety quality of staff from both China and DRC, effectively prevent and firmly eliminate accidents so as to achieve safety production. The activities included:

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

- Set up a special leading group to guide and supervise the work, studied and solved major and difficult problems in the process, supervised the inspection of various departments as well as rectification;
- Conducted extensive publicity and education to raise safety awareness;
- All staff studied the Safety and Environmental Responsibility System and Checklist;
- Organised Q&A activities on safety production knowledge;
- Conducted safety warning education and science promotion activities;
- Eliminated potential safety hidden dangers and built-up safety defenses by direct visiting production sites;
- Implemented the main responsibility and insisted on safety inspections and equipment lubrication patrols;
- Implemented the 4S (Seiton, Seiri, Seiso, Setketsu) cleanings at the mine site to create a good working and living environment;
- Conducted emergency rescue drills in accordance with the safety contingency plan; and
- Enhanced pandemic prevention and control.



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

PEOPLE-ORIENTED PRINCIPLE

Excellent talents are the most valuable asset of the Group, and the sustainable development of the Company cannot be separated from outstanding talents. The Group adheres to the people-oriented talent idea with harmonious advancement, establishes a comprehensive talent management system, and guarantees the legitimate interests of its staff through recruitment of excellent talents in a fair and just way. With the scientific talent training method, effective incentive mechanism, fair competition platform and broad development space, employees and the Company can flourish together.

Employment Policy

The Group strictly abides by the Labour Contract Law of the People's Republic of China, the Employment Ordinance of Hong Kong, the Industrial and Labour Relations Act of 1993, the Minimum Wages and Conditions of Employment Act of 2012, the Employment Act Chapter 268 of the Laws of Zambia, the CODE DU TRAVAIL of 2002, the Occupational Health and Safety Act No.36 of 2010, the Workers Compensation Act No.10 of 1999 of the DRC and other laws and regulations. In accordance with its actuality, the Group and its subsidiaries have formulated a series of internal policies including Administrative Measures for Labour Contracts with Employees, Administrative Measures for Recruitment of Employees, Administrative Measures for Resignation of Employees, Measures for the Management of Employee Performance, Certain Provisions on Personnel Management of China Nonferrous Mining Hong Kong Holdings Limited, etc., to ensure legal compliance of the employment.

During the recruitment process, we strictly review the identity information of applicants to ensure that they reach the legal age for employment and are eligible for employment, and adhere to strict prohibition of child labour or of forced labour no matter in any way. In case of any child labour or forced labour found, the Group will immediately dismiss the relevant person and hold the recruiter accountable. When confirming the employment after the interview and recruitment procedures, we sign labour contracts with employees to specify the remuneration, position and reasons for termination of employment, guarantee their legitimate interests. During the reporting period, in the Group, and there was no violation of any laws and regulations related to employment or labour practices.

Talent Management

The Group continues to actively promote the implementation of the "talent internationalisation and localisation" strategy, establishes a fair and reasonable talent management system, and improves employee benefits to attract more outstanding talents. In order to guarantee the rights of employees, NFCA has entered into recognition agreements with many trade unions in accordance with the laws of countries in which it operates to ensure that each employee can be treated in a reasonable manner and that the legitimate interests of the staff can be earnestly safeguard.

We follow the equal, diversified and non-discriminatory principle and give equal treatment for staff of different nationalities, races and genders. We treat staff with sincerity, respect the culture and custom of foreign staff and give priority to local staff in Zambia and the DRC in respect of employment to improve the localisation rate of staff in the Group.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

In terms of remuneration and performance appraisal, each of the subsidiaries of the Group has formulated the Wage Management Measures, Measures for the Management of Employee Performance, and Administrative Measures for the Selection and Appointment of Cadres, Administrative Measures for the Career Path of Employees, and other internal management measures, endeavouring to provide employees with competitive remuneration systems and open and transparent appraisal and promotion mechanisms.

As for holiday benefits, the Group, complying with the Industrial and Labour Relations Act, ensures that employees' working hours shall not exceed the statutory working hours. Aside from statutory holidays, it also provides employees with paid holidays including annual leave, sick leave, maternity leave, marriage leave and bereavement leave. Moreover, it offers overtime compensation, night shift allowances and high-temperature subsidies to further improve employees' welfare, protect the legitimate rights and interests of employees and promote their work-life balance.

As at the end of the Reporting Period, the number of staff of the subsidiaries of the Group and employee turnover rate by gender, age group, employment type and geographical region are set out as :

		Number of staff <i>(Individual)</i>	Turnover Rate¹
Total		8,352	7.35%
By gender	Male	7,995	7.52%
	Female	357	3.64%
By age group	30 years old and below	2,472	6.88%
	30–50 years old	5,157	7.02%
	50 years old and above	723	11.34%
By employment type	Full-time staff	8,334	–
	Part-time staff	18	–
By geographical region	Chinese staff	877	7.87%
	Local staff	7,475	7.29%

¹ The turnover rate is calculated by dividing the number of staff lost under each class during the reporting period by the number of staff under that class as at the end of the reporting period.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Talent Development

“Bolstering enterprise with talents” is one of our important strategies. We attach great importance to the personal development of employees, creating career-development channels and sparing no effort to set up models for multi-level trainings, and therefore we can meet the needs of different positions and improve the capabilities and qualities of employees. In doing so, employees can do their best and grow with the Company.

In order to continuously improve the employees’ training of the Group, we have actively implemented the Measures for the Management of Employees’ Training of the Controlling Shareholder, China Nonferrous Metal Mining (Group) Co., Ltd to make exhaustive specifications on the responsible department training, overall strategies training, resource and constructions training, organisations and implementations training, and file management training. Based on a job’s quality requirements and the actual problems at work, we carried out two types of trainings: “competency-oriented” and “actual problem-oriented” trainings, in order to enhance employees’ ability to perform duties and solve the actual problems at work. Such trainings mainly involved management ability, business quality and ability, basic skills, corporate culture, the dynamics of economic development and industrial knowledge. On the basis of the above trainings, we determined training methods for employees at different levels to meet the needs of different positions.

Employment type	Number of staff trained <i>(Individual)</i>	Coverage rate ²	Training hours <i>(Hour)</i>	Average training hours ³ <i>(Hour)</i>
Male	4,427	58.01%	243,570	31.92
Female	198	55.46%	7,870	22.04
Senior management	42	84.00%	2,406	48.12
Mid-level management	263	97.77%	11,105	41.28
General Staff	4,320	56.33%	237,929	31.02

² The coverage rate is calculated by dividing the number of staff trained under each class as at the end of the reporting period by the number of staff under that class as at the end of the reporting period.

³ The average training hours is calculated by dividing the total training hours under each class as at the end of the reporting period by the number of staff under that class as at the end of the reporting period.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Employee Care

The Group always pays attention to the physical and mental health of employees and their families. We not only provide various benefits to employees, but also proactively carry out employee care activities.

The Group provides staff with pension, medical, housing, transportation and other welfare and subsidies and actively improves its medical security capabilities. Meanwhile, we strengthen the promotion, prevention, monitoring, and treatment of epidemic diseases including malaria, dengue and AIDS in certain regions in Africa, and regularly organise physical examinations for employees to ensure employees' physical health and necessities in life. In order to enrich the leisure life of employees, we specially build stadiums for them, such as basketball courts, football fields and so forth, and provide sports equipment. We actively organise various holiday activities, such as basketball games, badminton games, tug of war, etc., improving the health of employees, whose leisure and cultural life are thus enriched. Therefore, there are enhanced communications and team cohesion between Chinese and foreign employees.

In order to perfect employee benefits, aside from the employees themselves, we also offer medical services to family members of registered staff. We regularly organise open day activities for employees' family, inviting their family members to participate in Company activities and learn about the development of the Group. In addition, we also render aid for the outstanding children of employees to increase employees' sense of belonging to the Company.

GREEN DEVELOPMENT

The construction of a green home requires the participation of all sectors of society. Adhering to the principles of "protection priority, prevention first, comprehensive governance, public participation, accountability for damage" and the environmental protection concept of "cherishing the Earth, valuing responsibility" and with the aim of "environmental protection and long-term development", we actively fulfill our social responsibility for environmental protection and resource management, establishing a long-term mechanism for safe environment and resource protection and management, to make contribution to green development.

Green Management

The Group strictly abides by the Environmental Protection and Pollution Control Act, Solid Waste Regulation and Management Act of 2008, Water Pollution Control Regulations of 1993, Mines and Minerals Development Act No. 11 of 2005, and The Mines and Minerals Act of 2015 of Zambia, the Laws No.007/2002, the Mining Code of DRC and other relevant laws and regulations. It also strictly implemented a series of environmental management measures formulated in accordance with CNMC including Administrative Measures for Protection of the External Investment and Cooperation Environment, General Principles of the Environmental Protection and Risk Management and Emergency Plan for Environmental Emergencies.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

In order to further promote green and sustainable development, prevent and reduce the adverse impact of production and operation activities on the environment and natural resources, and protect the ecological environment, Lualaba Copper Smelter has developed related internal policies such as the Administrative Measures for Environmental Protection, which sets out detailed systematic guidance on environmental protection management and environmental assessment goals and clarifies management responsibilities. A comprehensive plan for environmental emergencies was also developed. In the meantime, Luanshya has formulated a series of measures for resource management, including the Measures for Appraisal on Load Utilisation, the Measures for Appraisal on Consumption of Ancillary Vehicles of the Company, the Measures for Management of Energy Utilisation, the System for Management of Energy Saving and Emission Reduction and the Measures for Management of Energy Saving, continuing to contribute to energy saving and emission reduction goals.

A leading group for energy conservation and emission reduction was organised, with responsibilities for major decisions on environmental protection strategies and coordination and handling of major environmental pollution and ecological damage accidents. The Safety and Environmental Protection Department was also set up. The department, led by the production safety committee and mine manager, is in charge of daily management for environment and supervisions, and assigns responsibilities to designated personnel in key areas to ensure full coverage of supervision and management. At the same time, we divided the environmental emergencies into three different levels, and made different emergency plans for each level, to ensure timely response in the event of an emergency, minimising the negative impact. In addition, the Group also stepped up environment inspection with the focus on operation of pollution prevention and treatment facilities and timely and effective rectification for the problems.

During the reporting period, the Group did not have any violations in terms of environment or pollutant discharge, nor received any complaints on environmental pollution.

Pollution Control

For the exhausts, sewage and solid waste produced in the mining process, we established a detailed environmental protection management system to control pollution at source.

In terms of exhausts management, the Group used copper leaching process, and there was no SO_x, NO_x or other emissions during the production process, avoiding the generation and emission of exhausts at source. For copper smelting production process, we stabilised the conditions of smelting furnace to control smoke emission. and reduce emission of exhausts At the same time, we strengthened the control over preparation of strong sulphuric acid to enhance sulfur utilisation ratio, and installed electrostatic precipitators and online monitoring equipment to reduce and detect the emission of pollutants in order to ensure the emission indicators reaching the requirements of the environmental protection authorities of Zambia. In addition, we strengthened dust control by sweeping, watering, coverage and other means to effectively reduce dust in mining, vehicle transportation, storage on stock ground and other operations.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

For the solid waste, we insist on the practice of “minimising waste during work, cleaning tools used, and site clearing after completion”. Materials are used in a rational way according to site conditions to minimize the generation of solid waste. Regarding non-hazardous waste, the production workshop uses the desilter to effectively use and recycle the residue, and the production workshop uses the sedimentation tank to effectively use the residue for recycling. For unusable waste, when going through pressure filtration, its filter residue will be transported to the designated storage point for unified treatment, and the filtrate will be discharged to the sewage pipe. The hazardous wastes are stored in sealed containers according to local laws and then are handed over to qualified units as approved by the government for treatment to prevent secondary pollution.

Case: NFCA Utilizes and Turns Waste Rocks into Wealth

NFCA has taken a series of measures to strengthen the management and utilization of the waste rocks generated in the mining process, including continuously increasing the direct filling of goaf areas with mining mullock without transporting them to the ground surface; lowering the dilution rate of produced ore, decreasing the mixing volume of waste rocks, reducing the lifting of waste rocks and the discharge of tailings from the processing plant; paying attention to the quality control of roadways and reducing the overbreak of roadways so as to reduce the volume of waste rocks. At the same time, as Zambia, where NFCA is located, is in the stage of high-speed infrastructure construction, NFCA uses waste rocks in infrastructure projects such as road foundations, thus realising resource recycling.

During the reporting period, the volume of waste rocks filled by NFCA was 39,800 square meters, accounting for 10.8% of the total volume of underground waste rocks excavated, which greatly reduced the generation of waste rocks, and at the same time turned them into wealth for the processing of construction stones, with the total annual sales volume of construction stones of 183,000 tonnes and the total sales of US\$1.73 million. In 2021, NFCA plans to fill 360,000 cubic meters of waste rocks, which will effectively reduce the volume of waste rocks out of the pit.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Case: Huachin Leach Recycles Cobalt Resources

The cobalt resources in DRC are generally in the form of copper-cobalt associated ore, with the copper content of 1%-2.5% and cobalt content of 0.1%-1% in the ore. When the typical leaching-copper extraction electrowinning process is adopted, the cobalt in the ore is accumulated as impurities in the form of raffinate, resulting in the ineffective utilization cobalt resources. Huachin Leach has officially produced cobalt hydroxide by use of raffinate since 2019. As at November 30, 2020, Huachin Leach has processed 326,000 cubic meters of raffinate and recovered 640 tonnes of blister cobaltous hydroxide, equivalent to approximately 200 tonnes of cobalt, which greatly increased the recycling rate of cobalt resources.

Table of Emission Data

Type of emission	Unit	2020	2019
Emissions of sulfur oxide ⁴	Tonne	3,323.7	4,293.8
Emissions of nitric oxide ⁴	Tonne	78.4	13.5
Emissions of dust ⁴	Tonne	103.5	827.5
Amount of sewage	0'000 Tonnes	1,159.8	1,230.0
Intensity of sewage ⁵	Tonne/US\$'000	4.5	6.1
Amount of hazardous wastes ⁶	0'000 Tonnes	659.7	502.2
Intensity of hazardous wastes	Tonne/US\$'000	2.5	2.5
Treatment ratio of hazardous wastes	%	100	100
Amount of non-hazardous wastes ⁷	0'000 Tonnes	2,031.8	2,553.8
Intensity of non-hazardous wastes	Tonne/US\$'000	7.8	12.7
Treatment ratio of non-hazardous wastes	%	100	100
Emissions of greenhouse gases ⁸	Tonne	178,534.64	168,928.11
Intensity of greenhouse gases	Kg/US\$'000	68.7	84.1

⁴ The data involved are derived from the data recorded by the subsidiaries of the Group and the most reliable conservative estimates based on historical performance or with reference to similar facilities.

⁵ The Group's total revenue per US\$1,000 for the year is used as the denominator. The total revenue of the Group for 2020 amounts to US\$2,597.2 million.

⁶ Including waste lubricating oil (including engine oil), waste lead batteries, waste catalysts and other hazardous wastes.

⁷ Including waste residues, scrap iron and steel, mining waste ore, mining filling waste, office and domestic waste and other non-hazardous wastes.

⁸ Emissions of greenhouse gases are calculated according to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories issued by the Intergovernmental Panel on Climate Change.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Wise Use of Resources

The Group shoulders the corporate mission of “development of resources, contributions to the society” and zealously performs social responsibilities through continuously advancing resource management with respect of operations and life. To achieve comprehensive sustainable development of environment, enterprise, industry and society, it reasonably uses resources, improving the utilisation ratio of resources in mining, ore processing and smelting and reducing the use of energy and water resource.

As for operations, thoroughly sorting through underground recoverable reserves by areas in the production, the Group draws up production plan outline, and comprehensively utilises waste ore to enhance ore recovery and effectively prolong the life time of mine. We prepared production technology transformation plan and improved production processes, equipment and facilities to reduce the energy consumption of high energy-consumption equipment including ball mill and pump and improve the operational stability of waste heat power station, Isasmelt furnace and other critical equipment. We formulated monthly production plans and control targets of total energy consumption, and implemented performance assessment to control energy consumption at multiple levels. Due to the nature of the Group’s products and business, we are not involved in the use of packaging materials.

As for the use of water resources, the Group has not encountered any problems in obtaining suitable water sources due to its rich underground water yield of mine. In order to effectively use water resources and avoid wasting the same, the Group diverts the underground water to the surface pool with the volume of 10,000 tonnes. After clarification in the surface pool, the water will be used for production in processing plant and mine lot and certain underground water will be further purified and then used for domestic purposes. In terms of wastewater management, the Group adopts the principle of recycling as much as possible. For copper leaching process, we cover the tailings pond with high density polyethylene (HDPE) film and have built an integrated sewage recycling system to fully recycle the metallurgical sewage generated in production, thus saving water resources and achieving “zero” emission; for copper smelting process, most production sewage enters the slag flotation workshop before ultimate evaporation in the tailings pond. The Group has built a risk inspection system for safety and environmental protection of tailings pond with a specially-assigned person in charge, strengthened the tailings pond inspection to deal with the problems immediately, reducing the environmental risks of the enterprises. The Group’s office and sanitary sewer enter septic tanks and are discharged after treatment. We regularly sample and submit inspections of the water surrounding the plant and monitored well water from a groundwater source, and compare and analyze them according to the standards of the area where the project is located, and then issue an analysis report and make improvements based on it.

As for office and life management, the Group required transformation of energy saving LED lights for mine lots and offices in premises and installation of light-operated switches, time switches and other intelligent switches. It adopted natural lighting for production workshops wherever possible, used natural light for office lighting wherever possible, and made sure that lights stay off when no one is around in the offices to avoid energy waste. The Group also conducted publicity and education on energy saving and posting labels on energy conservation and emission reduction, and encouraged employees to do their part and to use resources wisely.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Case: Smelting Raw Material Batching Process of CCS

The one-time warehouse-type precision batching technology adopted by CCS for smelting raw material batching process has eliminated the traditional granulation process and shortened the process, making the smelting system of CCS flexible and fast in adjustment. Through scientific and technological innovation and strengthening the production technology management, CCS uses the system to firmly grasp the raw material structure and actual conditions, and effectively improves the self-heating level in the smelting process by reasonable material batching, to explore energy saving potential from the aspect of process energy saving. Secondly, the system aims to increase the operating rate and load rate, refine, strengthen and optimize the production organization, enhance equipment overhaul and maintenance and workshop consumption material cost assessment, reduce various types of productive energy consumption, and effectively improve the level of waste heat recovery.

Case: Water Resources Utilization of Huachin Leach and CNMC Huachin Mabende

In order to enhance the recycling of wastewater and improve the utilization efficiency of water resources, Huachin Leach and CNMC Huachin Mabende continue to upgrade mining equipment and consistently improve the disposal of smelting tailings and wastewater containing copper and cobalt. The sinking cobalt raffinate of Huachin Leach is all used in the grinding system, which saves the use of new water, plays a good effect on inhibiting the water expansion problem of the entire system, and reduces the bearing pressure of the tailings pond. CNMC Huachin Mabende has upgraded the deep cone thickener to increase the slurry concentration, with obvious effect of water and energy saving.

With the effective utilization of water resources, Huachin Leach and CNMC Huachin Mabende have achieved zero discharge of production wastewater, domestic and office wastewater. The sinking cobalt raffinate is all returned to the grinding workshop while the valuable metal resources of copper and cobalt being comprehensively recovered in the cobalt workshop, thus saving approximately 330,000 tonnes of new water, which is equivalent to reducing the storage capacity of the tailings pond by 330,000 cubic meters.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Table of Resource Consumption Data

Type of resource	Unit	2020	2019
Diesel	Litre	22,284,437.0	22,603,439.9
Gasoline	Litre	237,473.4	201,948.0
Coal	Tonne	15,537.4	12,098.3
Coke	Tonne	2,249.0	1,042.1
Acetylene	Kg	29,157.0	21,920.0
Liquefied petroleum gas	Kg	21,890.0	22,835.0
Purchased electricity	MWh	1,289,462,143.0	1,122,848.4
Total comprehensive energy consumption equivalent to standard coal	Tonne of standard coal	168,512.2	182,908.0
Intensity of comprehensive energy consumption	Kg standard coal/ US\$'000	64.9	91.1
Consumption of fresh water	0'000 Tonnes	1,350.6	1,418.4
Intensity of fresh water	Tonne/US\$'000	5.2	7.1

CONTRIBUTION TO COMMUNITY

Communication with Communities

On our way to realise the sustainable development, the Group proactively communicates with communities in expectation of understanding and support. Over the past years, under the guidance of “Win-Win Cooperation and Mutual Development” principle, we have endeavored to promote the environmental protection, economic development and cultural inheritance at communities, and enhanced communication with communities, to achieve mutual improvement and development with local communities.

The Group fully respects the religious beliefs and cultural traditions in regions where we operated, and encourages the organisation of cultural exchange activities, to facilitate the communication and understanding between us and local people. We proactively enhance the communication and liaison with local governments, regulators, social service organisations, the public and other stakeholders. We have special public relations department in place which deals with the management of the relation between us and local communities. By means of visits, press conferences, interviews, regular briefings, etc., we manage to meet the communities' development requirements and appeals. In addition, we encourage our employees to participant in community activities as much as possible, and communicate and interact with communities, to maintain good relationship between the Group and local communities.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Public Welfare in Communities

The Group effectively discharges its corporate social responsibilities and gives back to the society by way of the public welfare activities held in communities. All subsidiaries have formulated Administrative Measures on Donation to External as per the demand from communities where the projects are located, taking into consideration the realities of the Group, which sets out the principle, types, channels, approval process, supervision and administration for charitable donation in detail. We prepare a detailed charitable donation plan at the beginning of year, clarifying why to donate, who will receive our donation, through what channels to donate and how much we plan to donate, and summarise the performance of those plans at year end, to strengthen management. The Group proactively makes social charitable donation as its capacity allows, and has established friendly relationship with local public and social organisations, creating favorable external environment for the operation of the Group.

Our public welfare work in communities primarily includes the improvement of infrastructural construction and medical treatment and public health conditions in communities. We had helped with digging new well, maintenance and renovating communal facilities for communities, hospitals and farm produce fair in the regions where some of our projects were located, provided assistance for local power supplier to restore power supply, restoration of roads, prevention of diseases such as AIDS, malaria and so on. In addition, to support education cause in local communities, we built school campuses, provided poverty-stricken students with subsidies on their education, as well as donated books and stationery to orphans there. Furthermore, we had also donated money on important days such as Youth Day, Women's Day, Labour Day, Teachers' Day, World Environment Day, etc., making constant contribution to local public welfare.

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

In response to the sudden outbreak of COVID-19 pandemic in early 2020, the Group closely monitored the changes in pandemic situation of the communities in the regions where our projects were located, and donated the pandemic prevention and control supplies to the local communities, demonstrating the Group's commitment to social responsibility. During the reporting period, the Group made significant support for local communities by donation of pandemic prevention and control supplies, infrastructure construction, education and medical treatment, sports and culture, public welfare and other people's livelihood area in the regions where our projects were located.

The major donation activities of the Group during the reporting period are shown as follows:

Donation enterprises	Donation recipient/Subject	Location of donation recipient	Donation amount (US\$)
Luanshya	Annual sponsorship for united soccer club in Luan	Zambia	94,231
Luanshya	Repairment of public utilities and infrastructure in communities (including the donation of anti-pandemic supplies)	Zambia	63,846
CCS	Kankuko culvert bridge	Zambia	47,400
CCS	Buyantanshi school	Zambia	46,400
SML	Donation of solar street lamp	Zambia	41,400
Lualaba Copper Smelter	Youth sunshine fund of provincial government	DRC	30,000
CNMC Huachin Mabende	Well digging for the villages nearby the mine	DRC	28,004
CCS	Chibruma market project (奇布魯馬市場項目)	Zambia	27,800

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Case: CCS's Donation of Anti-pandemic and Living Supplies to Bushfire Orphanage Centre

Since the outbreak of COVID-19 pandemic, CCS has paid close attention to the pandemic situation in Zambia, and actively fulfilled its corporate responsibility to fight against the pandemic and overcame the difficulties with the local communities. CCS strictly complied with the anti-pandemic requirements of the Zambian government, implemented various anti-pandemic measures, and regularly distributed masks and other anti-pandemic supplies to employees.

On 9 April 2020, CCS donated anti-pandemic and living supplies to Bushfire Orphan Centre in Zambia, including 500 pieces of soap, 200 bottles of disinfection, 100 masks, and 200 bottles of hand sanitizer, as well as 40 bags of corn flour and 3 boxes of edible oil, with a total value of over US\$1,200, helping the communities in Zambia better fight against the pandemic.

CCS has always been committed to fulfilling its social responsibilities, developing and growing together with the local communities. Since its establishment, CCS has invested more than US\$1,775,500 to help promote local infrastructure, health care, education, community management and other work to boost local development.



ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT (CONTINUED)

Case: Luanshya's Donation of Anti-pandemic Supplies to the Local Government Agencies

In April 2020, the COVID-19 pandemic continued to spread across the countries in Africa. In Zambia, due to the shortage of materials and anti-pandemic supplies in the market, the pandemic situation became increasingly severe. Luanshya actively fulfilled its corporate social responsibility during such critical period by donating approximately anti-pandemic supplies of US\$10,000, including masks, thermometers, hand sanitizer, disinfectant, and self-made toilet containers to relevant local government agencies



REPORT OF THE DIRECTORS

The Directors present the annual report and the audited consolidated financial statements of the Group for the year ended 31 December 2020.

PRINCIPAL ACTIVITIES

The principal activity of the Company is investment holding. The Company's subsidiaries are principally engaged in exploration, mining, ore processing, leaching, smelting of copper and cobalt, and sale of copper cathodes, blister copper and copper anodes, copper-cobalt alloy, cobaltous hydroxide and sulfuric acid. There has been no significant change in the Group's principal activities for the year ended 31 December 2020.

CHANGE IN USE OF PROCEEDS FROM GLOBAL OFFERING

As of 31 December 2020, the Company has used net proceeds of US\$242.77 million from the Global Offering, and the net proceeds of US\$37 million from the Global Offering proposed to be used in acquisitions of companies with existing exploration rights and additional mining assets were reallocated to the use of "Kambove integrated exploration and construction project", among which, US\$32 million had been utilised and US\$5 million remained unutilised. Details of the use of proceeds from the Global Offering are as follows:

	Intended use of net proceeds <i>US\$'000</i>	Utilised amount as at 31 December 2020 <i>US\$'000</i>	Unutilised amount as at 31 December 2020 <i>US\$'000</i>	Expected timetable for use of unutilised amount
Exploration and development of the Chambishi Southeast Mine	72,000	72,000	-	N/A
Expansion of the Chambishi Copper Smelter	48,000	48,000	-	N/A
The Muliashi Project	12,000	12,000	-	N/A
Development of the Mwambashi Project	12,000	12,000	-	N/A
Kambove integrated exploration and construction project	37,000	32,000	5,000	Expected to be utilised by December 2021
Repayment of certain existing loans	36,000	36,000	-	N/A
Working capital and other general corporate purposes	30,770	30,770	-	N/A
Total	247,770	242,770	5,000	

REPORT OF THE DIRECTORS (CONTINUED)

Considering that the Company has not yet found a company with exploration rights and mining rights that can be acquired, while the Integrated Exploration and Construction Project of Kambove Mining is in urgent needs of funds for project construction, the Company decides to change the “US\$37 million for acquisitions of companies with existing exploration rights and additional mining assets” in the use of net proceeds from Global Offering to “US\$37 million for the Integrated Exploration and Construction Project of Kambove Mining”. The change in the use of proceeds of US\$37 million from the Global Offering is in the interest of the Company and its Shareholders as a whole.

RESULTS

The Group's operating results for the year ended 31 December 2020 and the financial position of the Group as at 31 December 2020 are set out on pages 135 to 241 in the audited consolidated financial statements contained in this annual report.

DIVIDENDS

The Board proposes a payment of final dividends of US ¢ 1.4327 per share for the year ended 31 December 2020. The proposed final dividend will be paid on Friday, 16 July 2021 after approval at the forthcoming AGM of the Company.

SUMMARY OF FINANCIAL INFORMATION

A summary of the consolidated results, assets and liabilities of the Group for the last five financial years, as extracted from the audited consolidated financial statements of the Group, is set out on page 242 in this annual report.

REPORT OF THE DIRECTORS (CONTINUED)

BUSINESS REVIEW

Overview and Performance of the Year

A review of the business of the Group and analysis of the Group's performance using financial key performance indicators is provided in the Results Highlights and the Management Discussion and Analysis sections on page 7 and pages 8 to 37, respectively, of this annual report.

Environmental Policies and Performance

The Group attaches great importance to environmental protection. Under the guidance of "environmental protection and sustainable development", the Group proactively promotes environmental management and resources utilisation and carries out environmental protection activities to build a "green enterprise making contributions to clear water and blue sky". During the reporting period, there was no material event causing litigation or corresponding punishment against the Group due to violation of laws in respect of environment.

Particulars in relation to the Group's environmental policies and performance are set out on pages 76 to 109 in the "Environmental, Social and Governance Report" section in this annual report.

Compliance with relevant Laws and Regulations

Relevant laws and regulations that have a significant impact on the Group mainly include:

- (1) Mines and Minerals Development Act No. 11 of 2015 of the Laws of Zambia;
- (2) Environmental Management Act No. 12 of 2011 of the Laws of Zambia;
- (3) Employment Act Chapter 268 of the Laws of Zambia;
- (4) Explosives Act Chapter 115 of the Laws of Zambia and Explosives Regulations;
- (5) Factories Act Chapter 441 of the Laws of Zambia;
- (6) Occupational Health and Safety Act No. 36 of 2010 of the Laws of Zambia;
- (7) Workers Compensation Act No. 10 of 1999 of the Laws of Zambia;
- (8) Acte Uniforme Relatif au Droit des Societes Commerciales et du Groupement D'Intereteconomique of the Laws of DRC;
- (9) Law No. 001/2018, the Mining Code of the Laws of DRC; and
- (10) Decree No. 18/24, the Mining Regulation of the DRC.

REPORT OF THE DIRECTORS (CONTINUED)

The Group has established and improved the manual for internal control in relation to overall business chains and management processes with subsequent monthly and annual supervision and review to ensure compliance with the relevant laws and regulations. For the year ended 31 December 2020, the Group complied with relevant laws and regulations which had significant impact on the businesses and operations of the Group in all material aspects. During the year ended 31 December 2020, the Group was subject to any penalty due to violation of the aforesaid laws, regulations and other public policies.

The Group has complied with the requirements under the Companies Ordinance, the Listing Rules, the SFO and the CG Code for, among other things, the disclosure of information and corporate governance. The Group has adopted the Model Code.

Key Relationships with Stakeholders

The support and trust of our stakeholders is integral to the Group's growth and success. Our stakeholders include shareholders and creditors, employees and employee organisations, governments and regulatory authorities, the public communities, charities and non-government organisations (NGOs) and clients. We place emphasis on communications with our stakeholders and have established an open and transparent communication channel for each category of stakeholders to understand their expectations and requests.

We continued to strengthen the quality and effectiveness of information disclosure, comply with applicable laws and regulations, and actively participate in public welfare activities, with the purpose of achieving mutual development and value sharing with our stakeholders. We have also formulated key indicators based on the focuses and concerns of different stakeholders to reflect our management performance on the above subject matters. Some of our key indicators include return on equity and payout ratio for shareholders and creditors; employee training frequency and turnover rate for employees and employee organisations; violations of laws and regulations and safety and environment performance concerned by the government; public opinion and corporate image concerned by the public; response rate on enquiries for charities and NGOs; satisfactory reports for clients etc.. Going forward, we will endeavor to improve our current policies, strive to maximise our stakeholders' value and achieve a mutually beneficial outcome.

Key Risks and Uncertainties

A description of principal risks and uncertainties that the Group may be facing is provided on page 16 in the "Management Discussion and Analysis" and "Corporate Governance Report" sections of this annual report.

REPORT OF THE DIRECTORS (CONTINUED)

Prospects

Please refer to the Chairman's Statement on pages 4 to 6 and pages 8 to 37 in the "Management Discussion and Analysis" section of this annual report.

Subsequent Event After the End of Financial Year

After the reporting period, on 8 January 2021, Mr. Jinjun Zhang, an executive Director of the Company, was appointed as the chairman of the Board, and remains as the president.

Save as disclosed in this annual report, there were no other significant events in relation the Group after the reporting period.

BANK AND OTHER BORROWINGS

Details of bank borrowings of the Group as at 31 December 2020 are set out in note 25 to the consolidated financial statements.

REPORT OF THE DIRECTORS (CONTINUED)

CHARITABLE DONATIONS

Charitable donations made by the Group during the year ended 31 December 2020 amounted to US\$552,000. In addition, the Group subsidised schools and community hospitals, provided financial aid for the construction and maintenance of public sports facilities such as football fields and swimming pools, and participated in programmes to fight against malaria, AIDS and cholera, thereby earnestly fulfilling its social responsibility.



Donation of food to the infants of the local area by Luanshya



Donation of the waiting hall of Kitwe



Donation of children's entertainment facilities in Chambishi Village

PROPERTY, PLANT AND EQUIPMENT

Details of movements in the property, plant and equipment of the Group during the year ended 31 December 2020 are set out in note 15 to the consolidated financial statements.

As at 31 December 2020, the Group did not own any properties for investment purposes or held for development and/or sale where one or more percentage ratios (as defined under Rule 14.04(9) of the Listing Rules) exceed 5%.

REPORT OF THE DIRECTORS (CONTINUED)

RESERVES

Details of change in the reserves of the Group during the year ended 31 December 2020 are set out in the consolidated statement of changes in equity.

DISTRIBUTABLE RESERVES

As at 31 December 2020, the Company had distributable reserves amounting to US\$59,329,000.

SHARE CAPITAL

There was no change in the share capital of the Company during the year ended 31 December 2020.

PRE-EMPTIVE RIGHTS

There is no provision for pre-emptive rights under the Articles of Association and there is no restriction against such rights which would oblige the Company to offer new Shares on a pro-rata basis to existing Shareholders.

PURCHASE, SALE OR REDEMPTION OF LISTED SECURITIES OF THE COMPANY

Neither the Company nor any of its subsidiaries purchased, redeemed or sold any of the Company's listed securities during the year ended 31 December 2020.

MAJOR CUSTOMERS AND SUPPLIERS

During the year ended 31 December 2020, sales to the Group's five largest customers accounted for 86.5% of the Group's total sales, and sales to its largest customer, being the Retained Group, accounted for 48.5% of the Group's total sales. The second largest customer was the group comprising a non-controlling shareholder of subsidiaries and its subsidiaries.

During the year ended 31 December 2020, purchases from the Group's five largest suppliers in aggregate accounted for approximately 57.5% of the total purchases, and purchases from the largest supplier accounted for approximately 17.2% of total purchases.

Save as disclosed above, none of the Directors, their associates or any shareholders of the Company (which, to the best knowledge of the Directors, own more than 5% of the Company's issued share capital) had any interest in the Group's five largest customers and suppliers during the year ended 31 December 2020.

REPORT OF THE DIRECTORS (CONTINUED)

SIGNIFICANT CONTRACT

Save as disclosed in “Connected Transactions”, no other significant contract was entered into between the Company or any of its subsidiaries, and a controlling shareholder or any of its subsidiaries during the year ended 31 December 2020.

MANAGEMENT CONTRACTS

No contracts concerning the management and administration of the whole or any substantial part of the business of the Company were entered into or existed during the year ended 31 December 2020.

DIRECTORS

The Directors during the Year and up to the date of this report were as follows:

Executive Directors

Mr. Jinjun Zhang (re-designated as Executive Director on 14 October 2020)
Mr. Xiaowei Wang
Mr. Chunlai Wang
Mr. Tongzhou Wang (resigned on 4 September 2020)
Mr. Wei Fan (appointed on 24 March 2020 and resigned on 14 October 2020)
Mr. Lin Zhang (resigned on 14 October 2020)
Mr. Kaishou Xie (resigned on 24 March 2020)

Non-Executive Directors

Mr. Jinjun Zhang (re-designated as Executive Director on 14 October 2020)

Independent Non-Executive Directors

Mr. Chuanyao Sun
Mr. Jingwei Liu
Mr. Huanfei Guan

REPORT OF THE DIRECTORS (CONTINUED)

In accordance with article 102 of the Articles of Association, at each annual general meeting, one-third of the directors or, if their number is not three (3) or a multiple of three (3), the number which is nearest to and is at least one-third, shall retire from office by rotation at least once every three (3) years. A retiring director shall be eligible for re-election. Pursuant to article 103 of the Articles of Association, the directors to retire by rotation shall be those who have been longest in office since their last appointment or reappointment, but as between persons who became or were last reappointed directors on the same day, those to retire shall (unless they otherwise agree among themselves) be determined by lot. In compliance with the provisions of the Articles, Mr. Xiaowei Wang and Mr. Jingwei Liu shall retire at the forthcoming annual general meeting and, being eligible, will offer themselves for re-election. Pursuant to Code Provision A.4.3 of Appendix 14 Corporate Governance Code and Corporate Governance Report of Main Board Listing Rules, serving more than 9 years could be relevant to the determination of a non-executive director's independence. If an independent non-executive director serves more than 9 years, his further appointment should be subject to a separate resolution to be approved by shareholders. Mr. Jingwei Liu was appointed to the Board as an independent non-executive director since 27 April 2012. Mr. Liu will serve the Board for more than 9 years upon 27 April 2021. In view of this, the re-appointment of Mr. Jingwei Liu at the AGM will be subject to a separate resolution to be approved by the Shareholders in accordance with the Listing Rules.

The Company has received annual confirmation of independence from the three independent non-executive Directors in accordance with Rule 3.13 of the Listing Rules and considers them to be independent.

The names of all directors who have served on the boards of the subsidiaries of the Company during the year ended 31 December 2020 or during the period from 1 January 2021 to 30 March 2021 are set out below and those marked with an asterisk(*) are directors as at 30 March 2021:

Lin Zhang	Chunlai Wang*	Jinghe Zhu*
Anne Flood	Aibin Hu	Xinghua Liu*
He Yang*	Dayong Yang*	Jinjun Zhang*
Guobin Hu*	Xuemin Zheng*	Zhanyan Li*
Chengguo Li*	Bing Zhang*	Mufingwe Ng'ambi*
Luke Chenjelani Mbewe*	Zhimin Chen*	Jingjun Wang*
Yuanyuan Liu*	Fawu Shi*	Chunguang Pang*
Mrs. Tamara S Ngoma*	Cosmas V Mwananshiku*	Situmbeko Mubano*
Yongzhong Tian*	Tian Wang*	Wei Fan*
Gang Qu	Yun Deng	Wei Yang*
Hongyan Zhang*	Xiaowei Wang*	Xi Yi*
Weimin Xu*	Jian Guo*	Peiwen Zhang*
Rongman Huang*	Shili Zhang*	Nanshan Shen
Xingrong Du*	Wenyan Xu*	Chengyi Fang*
Yuan Jiang*	Siukam Ng*	Siuhong Ng*
Peng Hu*	Hassan Moukachar*	Shaocheng Li*
Guoping Liu	Donghong Zhang*	Simon Tsibangu Ngoy*
Daniel Mbiyavanga Markuta Maku	Gaetan Tshibangu Luabeya*	Helin Xu*
Clotilde Wamana Kalongo*	Qiongzi Pu*	

Note: The list is in no particular order.

REPORT OF THE DIRECTORS (CONTINUED)

DIRECTORS AND SENIOR MANAGEMENT

The biographies of the Directors and senior management are set out on pages 38 to 47 in this annual report.

DIRECTORS' INTERESTS IN TRANSACTION, ARRANGEMENT AND CONTRACT OF SIGNIFICANCE

No Directors and their connected entities had an interest, either directly or indirectly, in any transactions, arrangements or contract of significance to the business of the Group to which the Company, or any of its holding companies, subsidiaries or fellow subsidiaries was a party during the year ended 31 December 2020.

None of the Directors proposed for re-election at the forthcoming annual general meeting has a service contract with the Company which is not terminable by the Company within one year without payment of compensation, other than statutory compensation.

DIRECTOR' S PERMITTED INDEMNITY PROVISION

Pursuant to the Company's Articles of Association, every Director or other office of the Company shall be entitled to be indemnified out of the assets of the Company against all costs, charges, expenses, losses and liabilities which he may sustain or incur in or about the execution of the duties of his office or otherwise in relation thereto. The Company has arranged appropriate directors' and officers' liability insurance coverage for the Directors and officers of the Group during the year ended 31 December 2020, and such coverage remained in full force as at the date of this report.

DIRECTOR'S INTERESTS IN COMPETING BUSINESS

None of the Directors of the Company had engaged in any business or had any interest in business which competes or may constitutes competition directly or indirectly (within the meaning of the Listing Rules) with the business of the Group during the year ended 31 December 2020.

DIRECTORS' RIGHTS TO ACQUIRE SHARES OR DEBENTURES

The Company or any of its subsidiaries did not have any arrangement in place at any time during the reporting period whereby the Directors or their respective spouse or children under the age of 18 years can obtain benefit by acquiring shares of the Company or other body corporate.

REPORT OF THE DIRECTORS (CONTINUED)

DIRECTORS' AND CHIEF EXECUTIVE'S INTERESTS AND SHORT POSITIONS IN SHARES AND UNDERLYING SHARES

As at 31 December 2020, none of the Directors or chief executive had any interests or short positions in the shares, underlying shares and debentures of the Company or any of its associated corporations (within the meaning of Part XV the SFO) which would fall to be disclosed to the Company or the Hong Kong Stock Exchange pursuant to Division 7 and 8 under the Part XV of the SFO; or interests or short positions required to be recorded in the register kept by the Company pursuant to Section 352 of the SFO; or interests or short positions which fall to be disclosed to the Company and the Hong Kong Stock Exchange pursuant to the Model Code.

EMOLUMENTS OF THE DIRECTORS, SENIOR MANAGEMENT AND THE FIVE HIGHEST PAID INDIVIDUALS

Please refer to notes 12 and 36(4) to the consolidated financial statements for details of the emoluments of the Directors, senior management and the five highest paid individuals of the Company.

SUBSTANTIAL SHAREHOLDERS' AND OTHER PERSONS' INTERESTS AND SHORT POSITIONS IN SHARES AND UNDERLYING SHARES

As at 31 December 2020, so far as it is known to the Director and chief executive of the Company, interests or short positions which would fall to be disclosed to the Company and the Hong Kong Stock Exchange pursuant to the provisions of Division 2 and 3 under the Part XV of the SFO is as follows:

Substantial shareholder	Capacity/Nature of interest	Long/short position	Number of shares	Approximate percentage of shareholdings
CNMD ^(Note)	Registered owner	Long position	2,600,000,000	74.52%
CNMC	Interest in a controlled corporation	Long position	2,600,000,000	74.52%

Note: CNMD is a wholly-owned subsidiary of CNMC and therefore, by virtue of the SFO, CNMC is deemed or taken to be interested in all the shares which are owned by CNMD.

Save as disclosed above, as at 31 December 2020, no person had registered an interest or short position in the shares or underlying shares of the Company that was required to be recorded pursuant to Section 336 of the SFO.

REPORT OF THE DIRECTORS (CONTINUED)

As at 31 December 2020, each of the following entities were directly or indirectly interested in 10% or more of the nominal value of any class of share capital carrying rights to vote in all circumstances at the general meeting of any other members of the Group:

Member of the Group	Entity with 10% or more interest (other than member of the Group)	Percentage of that entity's interest
NFCA	ZCCM-IH	15%
Luanshya	ZCCM-IH	20%
CCS	Yunnan Copper Group	40%
SML	Hong Kong Zhongfei	30%
Huachin Leach	Huachin SARL	32.5%
CNMC Huachin Mabende	Huachin SARL	35%
CNMHK	Hong Kong Zhongfei	30%
Kambove Mining	La Generale Des Carrieres Et Des Mines SA	45%
Lualaba Copper Smelter	YH Metal	38%
Kingsail	YH Metal	40%

RETIREMENT BENEFIT SCHEMES

Details of the retirement benefit schemes of the Group are set out in note 37 to the consolidated financial statements.

SHARE OPTION SCHEME

The Group has not adopted any share option scheme.

EQUITY-LINKED AGREEMENT

Save as disclosed in this annual report, there was no equity-linked agreement entered into by the Company during the year ended 31 December 2020.

REPORT OF THE DIRECTORS (CONTINUED)

CONNECTED TRANSACTIONS

Non-exempted Connected Transactions

During the Year, the Group carried out the following transactions which constituted connected transactions under Chapter 14A of the Listing Rules.

1. The Huachin Copper Concentrates Contract

On 3 April 2020, CCS entered into the Huachin Copper Concentrates Contract with Huachin, pursuant to which CCS agreed to purchase, and Huachin agreed to sell, copper concentrates produced at Commus Copper Mine, Kolwezi, DRC. The quantity of copper concentrates to be sold to CCS shall be 8,500 dmt +/-10% (i.e. from 7,650 dmt to 9,350 dmt), at Huachin's option. The shipment schedule shall be from 3 April 2020 to 31 December 2020. It was estimated that the consideration payable by CCS for the purchase thereunder would not exceed US\$19,400,000.

2. The Huachin Copper Oxides Concentrates Contract

On 25 May 2020, CCS entered into the Huachin Copper Oxides Concentrates Contract with Huachin, pursuant to which CCS agreed to purchase, and Huachin agreed to sell, copper oxides concentrates produced at MPC Copper Mine in Kolwezi, DRC. The quantity of copper oxides concentrates to be sold to CCS shall be 2,000 dmt +/-10% (i.e. from 1,800 dmt to 2,200 dmt), at Huachin's option. The shipment schedule shall be from 15 June 2020 to 31 August 2020. It was estimated that the consideration payable by CCS for the purchase thereunder would not exceed US\$3,070,000.

Under the Huachin Copper Concentrates Contract and the Huachin Copper Oxides Concentrates Contract, CCS purchased a total of approximately 5,075 dmt copper concentrates and copper oxides concentrates from Huachin with a total value of approximately US\$16,585,946.

The transactions contemplated under the Huachin Copper Concentrates Contract and the Huachin Copper Oxides Concentrates Contract (the “**Transactions**”) were entered into individually on a one-off basis, mainly to procure the needed copper concentrates to satisfy raw materials blending requirement under challenging market supply conditions, so that the safety of production can be guaranteed and the technical and economic indicators of production can be improved, which was conducive to the safe and efficient production and operation of CCS and would increase copper output and potentially improve profitability of CCS, and thus in the interests of the Company and the Shareholders as a whole.

REPORT OF THE DIRECTORS (CONTINUED)

Huachin is wholly-owned by Mr. Ho Lun Ng, an associate of Mr. Siu Kam Ng. As Mr. Siu Kam Ng is a director of Huachin Leach and CNMC Huachin Mabende, each a subsidiary of the Company, and indirectly owns 32.5% and 35% equity interests in Huachin Leach and CNMC Huachin Mabende, respectively, Mr. Siu Kam Ng is a connected person of the Company at the subsidiary level under Chapter 14A of the Listing Rules. Therefore, Huachin, being an associate of Mr. Siu Kam Ng, is also a connected person of the Company at the subsidiary level under Chapter 14A of the Listing Rules. Accordingly, the Transactions constitute connected transactions of the Company under Chapter 14A of the Listing Rules.

For details of the Huachin Copper Concentrates Contract, the Huachin Copper Oxides Concentrates Contract and the transactions contemplated thereunder, please refer to the announcements of the Company dated 30 March 2021 and 6 April 2021.

Non-exempted Continuing Connected Transactions

During the Year, the Group carried out the following transactions which constituted continuing connected transactions under Chapter 14A of the Listing Rules and were subject to annual review.

1. CNMC Copper Supply Framework Agreement

On 18 April 2017, the Company entered into the CNMC Copper Supply Framework Agreement (“2017 CNMC Copper Supply Framework Agreement”) with CNMC for a term of three years from 1 January 2018 to 31 December 2020, pursuant to which the Company agreed to sell, or procure its subsidiaries to sell, copper products including blister copper and copper cathode to the Retained Group, subject to the approval of the Independent Shareholders. The Independent Shareholders approved the 2017 CNMC Copper Supply Framework Agreement and the proposed annual caps at the EGM held on 31 May 2017. Details of the 2017 CNMC Copper Supply Framework Agreement were disclosed in the announcement and circular of the Company dated 18 April 2017 and 15 May 2017 respectively.

On 23 April 2018, the Company revised the annual caps under the 2017 CNMC Copper Supply Framework Agreement and obtained the approval of the Independent Shareholders at the AGM held on 28 June 2018. Details of the revision were disclosed in the announcement and circular of the Company dated 23 April 2018 and 13 June 2018 respectively.

During the year ended 31 December 2020, the revenue and gains from the sale of copper products (including loss on change in fair value) to the Retained Group amounted to US\$1,232,558,000, which is below the annual cap amount of US\$3,198,000,000.

REPORT OF THE DIRECTORS (CONTINUED)

2. Yunnan Copper Supply Framework Agreement

On 18 April 2017, the Company entered into the Yunnan Copper Supply Framework Agreement (“2017 Yunnan Copper Supply Framework Agreement”) with Yunnan Copper Group, for a term of three years from 1 January 2018 to 31 December 2020, pursuant to which the Company agreed to sell, or procure its subsidiaries to sell, copper products including blister copper and copper cathode to the Yunnan Copper Group and its subsidiaries. Details of the 2017 Yunnan Copper Supply Framework Agreement were disclosed in the announcement of the Company dated 18 April 2017.

On 23 April 2018, the Company revised the annual caps under the 2017 Yunnan Copper Supply Framework Agreement. Details of the revision were disclosed in the announcement of the Company dated 23 April 2018.

During the year ended 31 December 2020, the revenue and gains from the sale of copper products (including loss on change in fair value) to Yunnan Copper Group and its subsidiaries amounted to US\$554,215,000, which is below the annual cap amount of US\$1,230,000,000.

Yunnan Copper Group and its subsidiary Yunnan & Hongkong Metal Company Limited (雲港金屬有限公司) are respectively the substantial shareholders of CCS and LCS, holding 40% and 38% of the issued share capital of CCS and LCS, respectively. Yunnan Copper Group and its subsidiaries constitute connected persons of the Company under the Listing Rules.

3. Huachin Ore Supply Framework Agreement

On 18 April 2017, the Company entered into the Huachin Ore Supply Framework Agreement (“2017 Huachin Ore Supply Framework Agreement”) with Mabende Mining, for a term of three years from 1 January 2018 to 31 December 2020, pursuant to which the Company agreed to buy, or procure its subsidiaries to buy, copper ores mined by Mabende Mining. Details of the 2017 Huachin Ore Supply Framework Agreement were disclosed in the announcement of the Company dated 18 April 2017.

On 23 April 2018, the Company revised the annual caps under the 2017 Huachin Ore Supply Framework Agreement. Details of the revision were disclosed in the announcement of the Company dated 23 April 2018.

During the year ended 31 December 2020, the Group purchased ores amounting to US\$69,381,000 from Mabende Mining, which is below the annual cap amount of US\$80,000,000.

Huachin Leach and CNMC Huachin Mabende are 32.5% and 35%, respectively, indirectly owned by Mr. Siu Kam Ng, who also owns 70% interest in Mabende Mining. Mabende Mining constitutes a connected person of the Company under the Listing Rules.

REPORT OF THE DIRECTORS (CONTINUED)

4. Mutual Supply Framework Agreement

On 18 April 2017, the Company entered into the Mutual Supply Framework Agreement (“2017 Mutual Supply Framework Agreement”) with CNMC for a term of three years from 1 January 2018 to 31 December 2020, pursuant to which both parties agreed to provide, or procure their respective subsidiaries to provide certain raw materials, products and services to each other, and CNMC agreed to provide, or procure its subsidiaries to provide transportation and logistics services to the Group, subject to the approval of the Independent Shareholders. The Independent Shareholders approved the 2017 Mutual Supply Framework Agreement and the proposed annual caps at the EGM held on 31 May 2017. Details of the 2017 Mutual Supply Framework Agreement were disclosed in the announcement and circular of the Company dated 18 April 2017 and 15 May 2017 respectively.

On 23 April 2018, the Company revised the annual caps under the 2017 Mutual Supply Framework Agreement and obtained the approval of the Independent Shareholders at the AGM held on 28 June 2018. Details of the revision were disclosed in the announcement and circular of the Company dated 23 April 2018 and 13 June 2018 respectively.

On 27 April 2020, the Company revised the annual caps under the 2017 Mutual Supply Framework Agreement as at 31 December 2020 and obtained the approval of the Independent Shareholders at the AGM held on 29 June 2020. Details of the revision were disclosed in the announcement and circular of the Company dated 27 April 2020 and 25 May 2020 respectively.

During the year ended 31 December 2020, the amount paid by the Group for the provision of raw materials, products and services provided by the Retained Group amounted to US\$233,896,000, and the revenue from the provision of raw materials, products and services to the Retained Group amounted to US\$47,196,000, both of which are below the annual caps of US\$491,913,000 and US\$775,947,000, respectively.

REPORT OF THE DIRECTORS (CONTINUED)

5. Huachin Copper Supply Framework Agreement

On 13 October 2020, the Company and Huachin entered into the Huachin Copper Supply Framework Agreement (“2020 Huachin Copper Supply Framework Agreement”), pursuant to which the Company agreed to sell, or procure its subsidiaries to sell, Copper Products to Huachin Group. The term of the 2020 Huachin Copper Supply Framework Agreement commences on 13 October 2020, and remains valid until 31 December 2020. Details of the 2020 Huachin Copper Supply Framework Agreement were disclosed in the announcement of the Company dated 13 October 2020.

During the year ended 31 December 2020, the revenue and gains from the sale of copper products (including loss on change in fair value) to Huachin International Trading Limited amounted to US\$7,199,000, which is below the annual cap amount of US\$37,000,000.

Huachin is wholly-owned by an associate of Mr. Siu Kam Ng, and Mr. Siu Kam Ng indirectly owns 32.5% and 35% equity interests in Huachin Leach and CNMC Huachin Mabende, respectively. Therefore, Mr. Siu Kam Ng is a connected person of the Company at the subsidiary level under the Listing Rules.

6. OCT Copper Supply Framework Agreement

On 27 April 2020, the Company and Octagon Commodities entered into the OCT Copper Supply Framework Agreement (“2020 OCT Copper Supply Framework Agreement”), pursuant to which the Company agreed to sell, or procure its subsidiaries to sell, Copper Products to Octagon Commodities and its subsidiaries. The term of the 2020 OCT Copper Supply Framework Agreement commences on 27 April 2020 and remains valid until 31 December 2020. Details of the 2020 OCT Copper Supply Framework Agreement were disclosed in the announcement of the Company dated 27 April 2020.

During the year ended 31 December 2020, the revenue and gains from the sale of copper products (including loss on change in fair value) to Octagon Commodities and its subsidiaries amounted to US\$26,061,000, which is below the annual cap amount of US\$36,300,000.

Octagon Commodities is owned as to 58% by Huachin, which is wholly-owned by Mr. Siu Kam Ng. As Mr. Siu Kam Ng indirectly owns 32.5% and 35% equity interests in Huachin Leach and CNMC Huachin Mabende, Mr. Siu Kam Ng is a connected person of the Company at the subsidiary level under the Listing Rules.

REPORT OF THE DIRECTORS (CONTINUED)

7. Properties Leasing Framework Agreement

On 18 April 2017, the Company entered into the Properties Leasing Framework Agreement (“2017 Properties Leasing Framework Agreement”) with CNMC for a term of three years from 1 January 2018 to 31 December 2020, pursuant to which CNMC has agreed to lease the Leased Properties to the Group for general business and ancillary purposes. Details of the 2017 Properties Leasing Framework Agreement were disclosed in the announcement of the Company dated 18 April 2017.

During the year ended 31 December 2020, the total property rentals paid amounted to US\$4,965,000, which is below the annual cap amount of US\$9,530,000.

Details of related party transactions of the Company for the year ended 31 December 2020 are set out in note 36 to the consolidated financial statements. Save for the related party transactions as set out under item (4) in respect of remuneration of key management personnel, all the related party transactions set out in note 36 constitute connected transactions under Chapter 14A of the Listing Rules. The Company confirms that all such related party transactions complied with the applicable requirements under Chapter 14A of the Listing Rules.

The independent non-executive Directors have reviewed the nature and process of the business transactions, discussed the pricing policies of those transactions, and have confirmed that these continuing connected transactions of the Group have been entered into: (i) in the ordinary and usual course of business of the Group; (ii) on normal commercial terms; and (iii) in accordance with the relevant agreements governing them on terms that are fair and reasonable and in the interests of the Shareholders of the Company as a whole.

The Company has designated the Compliance Committee to continuously monitor the continuing connected transactions with the abovementioned connected persons. The Compliance Committee continuously traces and regularly monitors the progress of the continuing connected transactions and reports to management of the Company. The Compliance Committee reviews the continuing connected transactions with the finance department to ensure that annual caps are not exceeded. The heads of different departments of the Company will also be informed on a periodic basis in relation to the terms and pricing policies of the continuing connected transactions. The Compliance Committee will communicate with the Audit Committee, management and the Board of Directors, monthly or as needed, to report the progress of the continuing connected transactions, and request for approval of new changes of existing transaction terms. The Audit Committee and the Compliance Committee have also assigned the independent internal audit team the task to ensure that the Company’s internal control measures in respect of the continuing connected transactions remain effective and complete. With these measures, the independent non-executive Directors could therefore assess and give the confirmations in the preceding paragraph.

REPORT OF THE DIRECTORS (CONTINUED)

The Company's auditor has been engaged to report on the continuing connected transactions of the Group in accordance with Hong Kong Standard on Assurance Engagements 3000 "Assurance Engagements Other Than Audits or Reviews of Historical Financial Information" and with reference to Practice Note 740 "Auditor's Letter on Continuing Connected Transactions under the Hong Kong Listing Rules" issued by the Hong Kong Institute of Certified Public Accountants. The auditor has issued its letter containing its findings and conclusions, in respect of the above-mentioned continuing connected transactions disclosed by the Company in this annual report in accordance with Rule 14A.56 of the Listing Rules.

In respect of the continuing connected transactions disclosed (the "Disclosed Continuing Connected Transactions"), the Company's auditor confirmed that:

- a. nothing has come to their attention that causes them to believe that the Disclosed Continuing Connected Transactions have not been approved by the Company's board of directors;
- b. for transactions involving the provision of goods or services by the Group, nothing has come to their attention that causes them to believe that the transactions were not, in all material respects, in accordance with the pricing policies of the Group;
- c. nothing has come to their attention that causes them to believe that the transactions were not entered into, in all material respects, in accordance with the relevant agreements governing such transactions;
- d. with respect to the aggregate amount of each of the continuing connected transactions set out in the letter, nothing has come to their attention that causes them to believe that the Disclosed Continuing Connected Transactions have exceeded the annual cap disclosed in the announcements of the Company dated 19 April 2017, 23 April 2018, 27 April 2020 and 30 October 2020 made by the Company in respect of each of the Disclosed Continuing Connected Transactions.

A copy of the auditor's letter has been provided by the Company to the Hong Kong Stock Exchange.

NON-COMPETITION UNDERTAKING

As disclosed in the Prospectus, the independent non-executive Directors will review, on an annual basis, the compliance by CNMC and its associates with the Non-Competition Undertaking under the Deed of Non-Competition Undertaking, including whether to pursue any business opportunities which may be referred or offered to the Company by the Retained Group. The Company has received an annual confirmation from CNMC in respect of its compliance with the Non-Competition Undertaking. The independent non-executive Directors of the Company have reviewed the status of compliance of the Non-Competition Undertaking for the year ended 31 December 2020 and confirmed that all the undertakings under the Deed of Non-Competition Undertaking have been complied with by CNMC.

REPORT OF THE DIRECTORS (CONTINUED)

COMPLIANCE WITH PROVISIONS OF THE CORPORATE GOVERNANCE CODE

None of the Directors is aware of any information which would reasonably indicate that the Company has not, for any part of the year ended 31 December 2020, complied with the code provisions as set out in the Corporate Governance Code and Corporate Governance Report contained in Appendix 14 of the Listing Rules.

Mr. Tongzhou Wang has resigned from the positions of the chairman of the Board, an executive Director of the Company, etc., on 4 September 2020. The office of the Chairman of the Board has been vacated since 4 September 2020. On 14 October 2020, Mr. Jinjun Zhang, a non-executive Director of the Company, was re-designated as an executive Director and was appointed as the President of the Company. On 8 January 2021, Mr. Zhang was appointed as the Chairman of the Board, and remains as the President of the Company.

SUFFICIENCY OF PUBLIC FLOATING

Based on the information that is publicly available to the Company and as far as the Directors are aware, the Company has maintained at least 25% of public float as at the date of this annual report.

AUDIT COMMITTEE

The Company has an audit committee which was established with written terms of reference in compliance with Rule 3.22 of the Listing Rules and paragraph C3 of the CG Code of the Listing Rules. The primary duties of the Audit Committee are to supervise the financial reporting process and internal control and risk management systems of the Group. As at the date of this report, the Audit Committee consists of three members, being Mr. Jingwei Liu (independent non-executive Director), Mr. Chuanyao Sun (independent non-executive Director) and Mr. Huanfei Guan (independent non-executive Director). The chairman of the Audit Committee is Mr. Jingwei Liu. The Group's financial statements for the year ended 31 December 2020 have been reviewed by the Audit Committee, who was of the opinion that such statements complied with the applicable accounting standards, the Listing Rules and legal requirements, and that adequate disclosures had been made.

AUDITOR

A resolution for the re-appointment of Deloitte as auditor of the Company is to be submitted at the forthcoming annual general meeting.

Approved on behalf of the Board of Directors

Jinjun Zhang

Chairman

Beijing, 30 March 2021

INDEPENDENT AUDITOR'S REPORT



德勤

TO THE MEMBERS OF CHINA NONFERROUS MINING CORPORATION LIMITED

(incorporated in Hong Kong with limited liability)

OPINION

We have audited the consolidated financial statements of China Nonferrous Mining Corporation Limited (the "Company") and its subsidiaries (collectively referred to as the "Group") set out on pages 135 to 241, which comprise the consolidated statement of financial position as at 31 December 2020, and the consolidated statement of profit or loss and other comprehensive income, consolidated statement of changes in equity and consolidated statement of cash flows for the year then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, the consolidated financial statements give a true and fair view of the consolidated financial position of the Group as at 31 December 2020, and of its consolidated financial performance and its consolidated cash flows for the year then ended in accordance with Hong Kong Financial Reporting Standards ("HKFRSs") issued by the Hong Kong Institute of Certified Public Accountants ("HKICPA") and have been properly prepared in compliance with the Hong Kong Companies Ordinance.

BASIS FOR OPINION

We conducted our audit in accordance with Hong Kong Standards on Auditing ("HKSAs") issued by the HKICPA. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Consolidated Financial Statements section of our report. We are independent of the Group in accordance with HKICPA's Code of Ethics for Professional Accountants (the "Code"), and we have fulfilled our other ethical responsibilities in accordance with the Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

KEY AUDIT MATTERS

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements of the current period. These matters were addressed in the context of our audit of the consolidated financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

INDEPENDENT AUDITOR'S REPORT (CONTINUED)

KEY AUDIT MATTERS (CONTINUED)

Key audit matter	How our audit addressed the key audit matter
<u>Impairment assessment on property, plant and equipment of NFC Africa Mining PLC ("NFCA")</u>	
<p>We identified the impairment assessment on property, plant and equipment of NFCA, a subsidiary of the Company, as a key audit matter due to the use of judgement and estimation in assessing their recoverable amounts.</p> <p>As at 31 December 2020, owing to actual operating results below management's expectation set out in the prior year, management identified impairment indicators for NFCA's property, plant and equipment amounting to US\$779,257,000. The calculation of the recoverable amounts of the cash generating unit ("CGU") to which NFCA's property, plant and equipment belong in management assessment incorporates significant estimates. Any changes in these estimates may have a significant impact on the consolidated financial statements.</p> <p>No impairment loss was recognised for the year ended 31 December 2020 after the management's impairment assessment on the recoverable amount of the associated CGU.</p> <p>Details of the related key source of estimation uncertainty and management impairment assessment are disclosed in notes 4 and 15, respectively, to the consolidated financial statements.</p>	<p>Our procedures in relation to impairment assessment of property, plant and equipment of NFCA included:</p> <ul style="list-style-type: none">• Understanding the key controls that management have in place to assess the recoverable amounts of the CGU to which NFCA's property, plant and equipment belong;• Involving the internal expert to evaluate the methodologies and calculation adopted by the management and assess reasonableness of management's estimate of discount rate ;• Challenging the appropriateness of management's estimates of mining plan, future copper prices and production cost used in the cash flow projections; and• Comparing the current year's actual results with the 2020 figures used in the prior year's impairment assessment.

INDEPENDENT AUDITOR'S REPORT (CONTINUED)

OTHER INFORMATION

The directors of the Company are responsible for the other information. The other information comprises the information included in the annual report, but does not include the consolidated financial statements and our auditor's report thereon.

Our opinion on the consolidated financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the consolidated financial statements, our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the consolidated financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

RESPONSIBILITIES OF DIRECTORS AND THOSE CHARGED WITH GOVERNANCE FOR THE CONSOLIDATED FINANCIAL STATEMENTS

The directors of the Company are responsible for the preparation of the consolidated financial statements that give a true and fair view in accordance with HKFRSs issued by the HKICPA and the Hong Kong Companies Ordinance, and for such internal control as the directors determine is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, the directors are responsible for assessing the Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the directors either intend to liquidate the Group or to cease operations, or have no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Group's financial reporting process.

AUDITOR'S RESPONSIBILITIES FOR THE AUDIT OF THE CONSOLIDATED FINANCIAL STATEMENTS

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion solely to you, as a body, in accordance with section 405 of the Hong Kong Companies Ordinance, and for no other purpose. We do not assume responsibility towards or accept liability to any other person for the contents of this report. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with HKSA's will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with HKSA's, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the directors.
- Conclude on the appropriateness of the directors' use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Group to cease to continue as a going concern.

INDEPENDENT AUDITOR'S REPORT (CONTINUED)

AUDITOR'S RESPONSIBILITIES FOR THE AUDIT OF THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, actions taken to eliminate threats or safeguards applied.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partner on the audit resulting in the independent auditor's report is Patrick P. C. Cheng.

Deloitte Touche Tohmatsu

Certified Public Accountants

Hong Kong

30 March 2021

CONSOLIDATED STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME

FOR THE YEAR ENDED 31 DECEMBER 2020

	Notes	2020 US\$'000	2019 US\$'000
Revenue from contracts with customers	5, 6	2,597,213	2,008,719
Cost of sales		(1,967,771)	(1,540,246)
Gross profit		629,442	468,473
Other income	7	7,634	13,455
Other gains and losses	8	(122,860)	(32,979)
Distribution and selling expenses		(67,886)	(41,920)
Administrative expenses		(91,486)	(64,430)
Other expenses		(7,967)	(1,908)
Finance costs	9	(37,022)	(16,656)
Profit before tax		309,855	324,035
Income tax expense	10	(112,915)	(99,521)
Profit and total comprehensive income for the year	6, 11	196,940	224,514
Profit and total comprehensive income attributable to:			
Owners of the Company		124,965	134,874
Non-controlling interests		71,975	89,640
		196,940	224,514
Earnings per share			
– Basic and diluted (<i>US cents per share</i>)	14	3.58	3.87
– Basic and diluted (<i>equivalent to approximately HK\$ per share</i>)	14	0.28	0.30

CONSOLIDATED STATEMENT OF FINANCIAL POSITION

AT 31 DECEMBER 2020

	Notes	2020 US\$'000	2019 US\$'000
ASSETS			
Non-current Assets			
Property, plant and equipment	15	1,719,997	1,693,734
Right-of-use assets	16	14,895	19,860
Mining rights	17	136,187	78,225
Restricted bank balances	21	1,505	6,146
Deferred tax assets	31	20,588	18,735
Prepayments and other receivables	20	34,508	94,391
		1,927,680	1,911,091
Current Assets			
Inventories	18	671,427	530,093
Finance lease receivables		–	63
Trade receivables at amortised cost	19	20,666	11,496
Trade receivables at fair value through profit or loss ("FVTPL")	19	227,740	162,212
Prepayments and other receivables	20	185,728	218,069
Restricted bank balances	21	2,289	1,297
Bank balances and cash	21	497,829	481,210
		1,605,679	1,404,440
Total Assets		3,533,359	3,315,531
EQUITY AND LIABILITIES			
Capital and Reserves			
Share capital	28	613,233	613,233
Retained profits		498,531	400,571
Equity attributable to owners of the Company		1,111,764	1,013,804
Non-controlling interests		547,178	522,272
Total Equity		1,658,942	1,536,076

CONSOLIDATED STATEMENT OF FINANCIAL POSITION (CONTINUED)

AT 31 DECEMBER 2020

	Notes	2020 US\$'000	2019 US\$'000
Non-current Liabilities			
Deferred tax liabilities	31	63,233	44,775
Bank and other borrowings – due after one year	25	464,000	894,480
Lease liabilities	26	13,424	18,601
Provision for restoration, rehabilitation and environmental costs	30	28,272	23,131
Deferred income	29	16,345	16,566
		585,274	997,553
Current Liabilities			
Trade payables	22	219,728	156,478
Trade payables designated at FVTPL	22	205,178	116,051
Other payables and accrued expenses	23	114,417	84,034
Income tax payable		123,525	97,306
Bank and other borrowings – due within one year	25	597,442	301,298
Lease liabilities	26	6,770	6,802
Contract liabilities	24	11,141	18,502
Financial liabilities designated at FVTPL	27	10,942	1,431
		1,289,143	781,902
Total Liabilities		1,874,417	1,779,455
Total Equity and Liabilities		3,533,359	3,315,531

The consolidated financial statements on pages 135 to 241 were approved and authorised for issue by the board of directors on 30 March 2021 and are signed on its behalf by:

Jinjun Zhang
DIRECTOR

Xiaowei Wang
DIRECTOR

CONSOLIDATED STATEMENT OF CHANGES IN EQUITY

FOR THE YEAR ENDED 31 DECEMBER 2020

	Equity attributable to owners of the Company			Non- controlling interests	Total equity
	Share capital <i>US\$'000</i>	Retained profits <i>US\$'000</i>	Sub-total <i>US\$'000</i>		
At 1 January 2019	613,233	294,949	908,182	388,373	1,296,555
Profit and total comprehensive income for the year	–	134,874	134,874	89,640	224,514
Dividend declared by a subsidiary	–	–	–	(14,400)	(14,400)
Capital contribution by a non- controlling shareholder of a subsidiary	–	–	–	58,659	58,659
Dividend declared by the Company	–	(29,252)	(29,252)	–	(29,252)
At 31 December 2019	613,233	400,571	1,013,804	522,272	1,536,076
Profit and total comprehensive income for the year	–	124,965	124,965	71,975	196,940
Dividend declared by a subsidiary	–	–	–	(47,069)	(47,069)
Dividend declared by the Company	–	(27,005)	(27,005)	–	(27,005)
At 31 December 2020	613,233	498,531	1,111,764	547,178	1,658,942

CONSOLIDATED STATEMENT OF CASH FLOWS

FOR THE YEAR ENDED 31 DECEMBER 2020

	2020 US\$'000	2019 US\$'000
OPERATING ACTIVITIES		
Profit before tax	309,855	324,035
Adjustments for:		
Finance costs	37,022	16,656
Interest income	(1,337)	(5,542)
Depreciation of property, plant and equipment	149,253	103,823
Depreciation of right-of-use assets	4,965	5,543
Amortisation of mining rights	140	883
Impairment loss, net of reversal		
– input value added tax ("VAT") receivables	(7,866)	5,879
– financial assets under expected credit loss ("ECL") model	13,845	(2,316)
– mining rights	16,898	–
Loss on disposal of property, plant and equipment, net	408	300
Loss arising on fair value change of financial assets/liabilities at FVTPL	41,872	4,233
Release of premium for electricity supply	1,110	440
Deferred income recognised	(1,658)	(341)
Finance income earned under finance leases to fellow subsidiaries	–	(15)
Foreign exchange loss	5,564	1,285
Operating cash flows before movements in working capital	570,071	454,863
(Increase) decrease in inventories	(141,334)	10,126
Decrease (increase) in trade and other receivables and prepayments	99,247	(64,326)
Increase in trade and other payables and accrued expenses	31,922	21,498
(Decrease) increase in contract liabilities	(7,361)	10,955
Cash generated from operations	552,545	433,116
Income tax paid	(70,091)	(64,380)
NET CASH FROM OPERATING ACTIVITIES	482,454	368,736

CONSOLIDATED STATEMENT OF CASH FLOWS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

	2020 US\$'000	2019 US\$'000
INVESTING ACTIVITIES		
Interest received	1,337	5,542
Proceeds on disposal of property, plant and equipment	602	54
Purchases of property, plant and equipment	(142,418)	(408,136)
Purchases of mining rights	(75,000)	(20,449)
Repayment of finance lease receivables from fellow subsidiaries	63	238
Finance income earned under finance leases to fellow subsidiaries received	–	15
Placement of restricted bank balances	(4,677)	(102)
Proceeds from release of restricted bank balances	8,326	1,379
Receipts of government grants	1,437	1,379
NET CASH USED IN INVESTING ACTIVITIES	(210,330)	(420,080)
FINANCING ACTIVITIES		
Dividends paid to shareholders of the Company	(12,282)	(29,252)
Dividends paid to non-controlling shareholders of subsidiaries	(45,824)	(13,350)
Interest paid	(51,475)	(61,947)
Repayments of bank and other borrowings	(359,213)	(397,339)
Repayments of lease liabilities	(6,147)	–
New bank and other borrowings raised	225,000	530,636
NET CASH (USED IN) FROM FINANCING ACTIVITIES	(249,941)	28,748
NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS	22,183	(22,596)
CASH AND CASH EQUIVALENTS AT 1 JANUARY	481,210	505,091
Effect of foreign exchange rate changes on the balance of cash held in foreign currencies	(5,564)	(1,285)
CASH AND CASH EQUIVALENTS AT 31 DECEMBER		
Represented by:		
Bank balances and cash	497,829	481,210

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS

FOR THE YEAR ENDED 31 DECEMBER 2020

1. GENERAL INFORMATION

China Nonferrous Mining Corporation Limited (the "Company") was incorporated in Hong Kong on 18 July 2011 and its shares are listed on The Stock Exchange of Hong Kong Limited. In the opinion of the directors of the Company (the "Directors"), the Company's immediate holding company is China Nonferrous Mining Development Limited, a private company incorporated in the British Virgin Islands and the Company's ultimate holding company is China Nonferrous Metal Mining (Group) Co., Ltd ("CNMC"), an enterprise established in the People's Republic of China (the "PRC") and wholly-owned by State-owned Assets Supervision and Administration Commission of the State Council. The registered office of the Company is located Unit 1303, 13/F, Austin Tower, 22–26 Austin Avenue, Tsimshatsui, Kowloon, Hong Kong, and its principal places of business are located at 32 Enos Chomba Road, Kitwe, the Republic of Zambia ("Zambia") and Bloc B-Luano City-Route Aeroport Commune Annexe Lubumbashi, the Democratic Republic of Congo ("DRC").

The principal activity of the Company is investment holding. The Company's subsidiaries are principally engaged in exploration, mining, ore processing, leaching, smelting and sale of copper cathodes, blister copper and copper anodes, copper-cobalt alloy, cobaltous hydroxide and sulfuric acid. The activities of the subsidiaries of the Company are set out in the note 38.

The consolidated financial statements of the Company and its subsidiaries (collectively referred to as the "Group") are presented in United States dollars ("US\$"), which is also the functional currency of the Company.

2. APPLICATION OF NEW AND AMENDMENTS TO HONG KONG FINANCIAL REPORTING STANDARDS ("HKFRSs")

Amendments to HKFRSs that are mandatorily effective for the current year

In the current year, the Group has applied the Amendments to References to the Conceptual Framework in HKFRS Standards and the following amendments to HKFRSs issued by the Hong Kong Institute of Certified Public Accountants ("HKICPA") for the first time, which are mandatorily effective for the annual period beginning on or after 1 January 2020 for the preparation of the consolidated financial statements:

Amendments to HKAS 1 and HKAS 8
Amendments to HKFRS 3
Amendments to HKFRS 9,
HKAS 39 and HKFRS 7

Definition of Material
Definition of a Business
Interest Rate Benchmark Reform

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

2. APPLICATION OF NEW AND AMENDMENTS TO HONG KONG FINANCIAL REPORTING STANDARDS ("HKFRSs") (CONTINUED)

Amendments to HKFRSs that are mandatorily effective for the current year (Continued)

The application of the Amendments to References to the Conceptual Framework in HKFRS Standards and the amendments to HKFRSs in the current year had no material impact on the Group's financial positions and performance for the current and prior years and/or on the disclosures set out in these consolidated financial statements.

New and amendments to HKFRSs in issue but not yet effective

The Group has not early applied the following new and amendments to HKFRSs that have been issued but are not yet effective:

HKFRS 17	Insurance Contracts and the related Amendments ¹
Amendment to HKFRS 16	Covid-19-Related Rent Concessions ⁴
Amendments to HKFRS 3	Reference to the Conceptual Framework ²
Amendments to HKFRS 9, HKAS 39, HKFRS 7, HKFRS 4 and HKFRS 16	Interest Rate Benchmark Reform – Phase 2 ⁵
Amendments to HKFRS 10 and HKAS 28	Sale or Contribution of Assets between an Investor and its Associate or Joint Venture ³
Amendments to HKAS 1	Classification of Liabilities as Current or Non-current and related amendments to Hong Kong Interpretation 5 (2020) ¹
Amendments to HKAS 16	Property, Plant and Equipment – Proceeds before Intended Use ²
Amendments to HKAS 37	Onerous Contracts – Cost of Fulfilling a Contract ²
Amendments to HKFRSs	Annual Improvements to HKFRSs 2018–2020 ²

¹ Effective for annual periods beginning on or after 1 January 2023.

² Effective for annual periods beginning on or after 1 January 2022.

³ Effective for annual periods beginning on or after a date to be determined.

⁴ Effective for annual periods beginning on or after 1 June 2020.

⁵ Effective for annual periods beginning on or after 1 January 2021.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

2. APPLICATION OF NEW AND AMENDMENTS TO HONG KONG FINANCIAL REPORTING STANDARDS ("HKFRSs") (CONTINUED)

New and amendments to HKFRSs in issue but not yet effective (Continued)

Except for the new and amendments to HKFRSs mentioned below, the directors of the Company anticipate that the application of all other new and amendments to HKFRSs will have no material impact on the consolidated financial statements in the foreseeable future.

Amendments to HKAS 16 Property, Plant and Equipment – Proceeds before Intended Use

The amendments specify that the costs of any item that were produced while bringing an item of property, plant and equipment to the location and condition necessary for it to be capable of operating in the manner intended by management (such as samples produced when testing whether the relevant property, plant and equipment is functioning properly) and the proceeds from selling such items should be recognised and measured in the profit or loss in accordance with applicable standards. The cost of the items are measured in accordance with HKAS 2.

The Group's existing accounting policy is to account for sale proceeds on samples produced during testing as reduction of cost of the relevant property, plant and equipment. Upon application of the amendments, such sale proceeds and the related costs will be included in profit and loss with corresponding adjustments to the cost of property, plant and equipment. During the year ended 31 December 2020, sale proceeds and related costs included in property, plant and equipment amounted to US\$173,278,000 and US\$188,058,000 respectively.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES

3.1 Basis for preparation of consolidated financial statements

The consolidated financial statements have been prepared in accordance with HKFRSs issued by the HKICPA. For the purpose of preparation of the consolidated financial statements, information is considered material if such information is reasonably expected to influence decisions made by primary users. In addition, the consolidated financial statements include applicable disclosures required by the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited and by the Hong Kong Companies Ordinance.

The consolidated financial statements have been prepared on the historical cost basis except for certain financial instruments that are measured at fair values at the end of each reporting period, as explained in the accounting policies set out below.

Historical cost is generally based on the fair value of the consideration given in exchange for goods and services.

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date, regardless of whether that price is directly observable or estimated using another valuation technique. In estimating the fair value of an asset or a liability, the Group takes into account the characteristics of the asset or liability if market participants would take those characteristics into account when pricing the asset or liability at the measurement date. Fair value for measurement and/or disclosure purposes in these consolidated financial statements is determined on such a basis, except for leasing transactions that are accounted for in accordance with HKFRS 16 Leases ("HKFRS 16"), and measurements that have some similarities to fair value but are not fair value, such as net realisable value in HKAS 2 or value in use in HKAS 36 Impairment of Assets.

In addition, for financial reporting purposes, fair value measurements are categorised into Level 1, 2 or 3 based on the degree to which the inputs to the fair value measurements are observable and the significance of the inputs to the fair value measurement in its entirety, which are described as follows:

- Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at the measurement date;
- Level 2 inputs are inputs, other than quoted prices included within Level 1, that are observable for the asset or liability, either directly or indirectly; and
- Level 3 inputs are unobservable inputs for the asset or liability.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies

Basis of consolidation

The consolidated financial statements incorporate the financial statements of the Company and entities controlled by the Company and its subsidiaries. Control is achieved when the Company:

- has power over the investee;
- is exposed, or has rights, to variable returns from its involvement with the investee; and
- has the ability to use its power to affect its returns.

The Group reassesses whether or not it controls an investee if facts and circumstances indicate that there are changes to one or more of the three elements of control listed above.

Consolidation of a subsidiary begins when the Group obtains control over the subsidiary and ceases when the Group loses control of the subsidiary. Specifically, income and expenses of a subsidiary acquired or disposed of during the year are included in the consolidated statement of profit or loss and other comprehensive income from the date the Group gains control until the date when the Group ceases to control the subsidiary.

Profit or loss and each component of other comprehensive income are attributed to the owners of the Company and to the non-controlling interests. Total comprehensive income of subsidiaries is attributed to the owners of the Company and to the non-controlling interests even if this results in the non-controlling interests having a deficit balance.

When necessary, adjustments are made to the financial statements of subsidiaries to bring their accounting policies in line with the Group's accounting policies.

All intragroup assets and liabilities, equity, income, expenses and cash flows relating to transactions between members of the Group are eliminated in full on consolidation.

Non-controlling interests in subsidiaries are presented separately from the Group's equity therein, which represent present ownership interests entitling their holders to a proportionate share of net assets of the relevant subsidiaries upon liquidation.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Revenue from contracts with customers

The Group recognises revenue when (or as) a performance obligation is satisfied, i.e. when "control" of the goods or services underlying the particular performance obligation is transferred to the customer.

A performance obligation represents a good or service (or a bundle of goods or services) that is distinct or a series of distinct goods or services that are substantially the same.

Control is transferred over time and revenue is recognised over time by reference to the progress towards complete satisfaction of the relevant performance obligation if one of the following criteria is met:

- the customer simultaneously receives and consumes the benefits provided by the Group's performance as the Group performs;
- the Group's performance creates and enhances an asset that the customer controls as the Group performs; or
- the Group's performance does not create an asset with an alternative use to the Group and the Group has an enforceable right to payment for performance completed to date.

Otherwise, revenue is recognised at a point in time when the customer obtains control of the distinct good or service.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Revenue from contracts with customers (Continued)

A contract asset represents the Group's right to consideration in exchange for goods or services that the Group has transferred to a customer that is not yet unconditional. It is assessed for impairment in accordance with HKFRS 9 *Financial Instruments* ("HKFRS 9"). In contrast, a receivable represents the Group's unconditional right to consideration, i.e. only the passage of time is required before payment of that consideration is due.

A contract liability represents the Group's obligation to transfer goods or services to a customer for which the Group has received consideration (or an amount of consideration is due) from the customer.

A contract asset and a contract liability relating to the same contract are accounted for and presented on a net basis.

Sale of goods

Revenue from the sale of goods is recognised when control of the goods has transferred based on the terms of the sale contracts.

In most cases, the control of goods has transferred upon delivery when the goods have been shipped at the Group's premises. In some other cases, the control of goods has transferred upon delivery at specific destination ports.

The Group sells copper products under provisional pricing arrangements where final grades of copper, gold, silver and cobalt in copper products are agreed based on third-party examination and final prices are set at a specified date based on market prices. Revenues are recognised using forward prices for the expected date of final settlement. The period between revenue recognition and final settlement is within one to three months. The contractual cash flows of trade receivable vary depending on the market price at the date of final settlement, and do not represent solely payments of principal and interests on the principal amount outstanding. Consequently, these trade receivables resulted from provisionally priced contracts are measured at FVTPL.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Revenue from contracts with customers (Continued)

Services

Revenue from the rendering of copper products processing service is recognised when control of the completed processing copper products has transferred based on the terms of the service contracts.

Dividend and interest income

Dividend income from investments is recognised when the shareholders' right to receive payment has been established.

Interest income is accrued on a time basis, by reference to the principal outstanding and at the effective interest rate applicable, which is the rate that exactly discounts estimated future cash receipts through the expected life of the financial asset to that asset's net carrying amount on initial recognition.

Leases

Definition of a lease

A contract is, or contains, a lease if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration.

For contracts entered into or modified on or after the date of initial application or arising from business combinations, the Group assesses whether a contract is or contains a lease based on the definition under HKFRS 16 at inception, modification date or acquisition date, as appropriate. Such contract will not be reassessed unless the terms and conditions of the contract are subsequently changed.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Leases (Continued)

The Group as a lessee

Allocation of consideration to components of a contract

For a contract that contains a lease component and one or more additional lease or non-lease components, the Group allocates the consideration in the contract to each lease component on the basis of the relative stand-alone price of the lease component and the aggregate stand-alone price of the non-lease components.

Non-lease components are separated from lease component on the basis of their relative stand-alone prices.

Short-term leases

The Group applies the short-term lease recognition exemption to leases of buildings that have a lease term of 12 months or less from the commencement date and do not contain a purchase option. Lease payments on short-term leases are recognised as expense on a straight-line basis or another systematic basis over the lease term.

Right-of-use assets

The cost of right-of-use asset includes:

- the amount of the initial measurement of the lease liability;
- any lease payments made at or before the commencement date, less any lease incentives received; and
- any initial direct costs incurred by the Group.

Right-of-use assets are measured at cost, less any accumulated depreciation and impairment losses, and adjusted for any remeasurement of lease liabilities.

Right-of-use assets are depreciated on a straight-line basis over the shorter of its estimated useful life and the lease term.

The Group presents right-of-use assets as a separate line item on the consolidated statement of financial position.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Leases (Continued)

The Group as a lessee (Continued)

Lease liabilities

At the commencement date of a lease, the Group recognises and measures the lease liability at the present value of lease payments that are unpaid at that date. In calculating the present value of lease payments, the Group uses the incremental borrowing rate at the lease commencement date if the interest rate implicit in the lease is not readily determinable.

The lease payments include:

- fixed payments (including in-substance fixed payments) less any lease incentives receivable; and
- variable lease payments that depend on an index or a rate, initially measured using the index or rate as at the commencement date; and

Variable lease payments that reflect changes in market rental rates are initially measured using the market rental rates as at the commencement date.

After the commencement date, lease liabilities are adjusted by interest accretion and lease payments.

The Group remeasures lease liabilities (and makes a corresponding adjustment to the related right-of-use assets) whenever:

- the lease term has changed or there is a change in the assessment of exercise of a purchase option, in which case the related lease liability is remeasured by discounting the revised lease payments using a revised discount rate at the date of reassessment.
- the lease payments change due to changes in market rental rates following a market rent review/expected payment under a guaranteed residual value, in which cases the related lease liability is remeasured by discounting the revised lease payments using the initial discount rate.

The Group presents lease liabilities as a separate line item on the consolidated statement of financial position.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Leases (Continued)

The Group as a lessee (Continued)

Lease modifications

The Group accounts for a lease modification as a separate lease if:

- the modification increases the scope of the lease by adding the right to use one or more underlying assets; and
- the consideration for the leases increases by an amount commensurate with the stand-alone price for the increase in scope and any appropriate adjustments to that stand-alone price to reflect the circumstances of the particular contract.

For a lease modification that is not accounted for as a separate lease, the Group remeasures the lease liability based on the lease term of the modified lease by discounting the revised lease payments using a revised discount rate at the effective date of the modification.

The Group accounts for the remeasurement of lease liabilities by making corresponding adjustments to the relevant right-of-use asset. When the modified contract contains a lease component and one or more additional lease or non-lease components, the Group allocates the consideration in the modified contract to each lease component on the basis of the relative stand-alone price of the lease component and the aggregate stand-alone price of the non-lease components.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Leases (Continued)

The Group as a lessor

Classification and measurement of leases

Leases for which the Group is a lessor are classified as finance or operating leases. Whenever the terms of the lease transfer substantially all the risks and rewards incidental to ownership of an underlying asset to the lessee, the contract is classified as a finance lease. All other leases are classified as operating leases.

Amounts due from lessees under finance leases are recognised as receivables at commencement date at amounts equal to net investments in the leases, measured using the interest rate implicit in the respective leases. Interest income is allocated to accounting periods so as to reflect a constant periodic rate of return on the Group's net investment outstanding in respect of the leases.

Rental income from operating leases is recognised in profit or loss on a straight-line basis over the term of the relevant lease. Initial direct costs incurred in negotiating and arranging an operating lease are added to the carrying amount of the leased asset, and such costs are recognised as an expense on a straight-line basis over the lease term.

Foreign currencies

The functional currency of companies comprising the Group is US\$. In preparing the financial statements of each individual group entity, transactions in currencies other than the functional currency of that entity (foreign currencies) are recognised at the rates of exchange prevailing on the dates of the transactions. At the end of the reporting period, monetary items denominated in foreign currencies are retranslated at the rates prevailing at that date. Non-monetary items that are measured in terms of historical cost in a foreign currency are not retranslated.

Exchange differences arising on the settlement of monetary items, and on the retranslation of monetary items, are recognised in profit or loss in the period in which they arise.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Borrowing costs

Borrowing costs directly attributable to the acquisition, construction or production of qualifying assets, which are assets that necessarily take a substantial period of time to get ready for their intended use or sale, are added to the cost of those assets until such time as the assets are substantially ready for their intended use or sale.

Any specific borrowing that remain outstanding after the related asset is ready for its intended use or sale is included in the general borrowing pool for calculation of capitalisation rate on general borrowings. Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalisation.

All other borrowing costs are recognised in profit or loss in the period in which they are incurred.

Government grants

Government grants are not recognised until there is reasonable assurance that the Group will comply with the conditions attaching to them and that the grants will be received.

Government grants are recognised in profit or loss on a systematic basis over the periods in which the Group recognises as expenses the related costs for which the grants are intended to compensate. Specifically, government grants whose primary condition is that the Group should purchase, construct or otherwise acquire non-current assets are recognised as deferred income in the consolidated statement of financial position and transferred to profit or loss on a systematic and rational basis over the useful lives of the related assets.

Government grants related to income that are receivable as compensation for expenses or losses already incurred or for the purpose of giving immediate financial support to the Group with no future related costs are recognised in profit or loss in the period in which they become receivable. Such grants are presented under "other income".

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Employee benefits

Retirement benefit costs

Payments to defined contribution retirement benefit plans are recognised as an expense when employees have rendered service entitling them to the contributions.

Short-term employee benefits

Short-term employees benefits are recognised at the undiscounted amount of the benefits expected to be paid as and when employees rendered the services. All short-term employee benefits are recognised as an expense unless another HKFRS requires or permits the inclusion of the benefit in the cost of an asset.

A liability is recognised for benefits accruing to employees (such as wages and salaries, annual leave and sick leave) after deducting any amount already paid.

Taxation

Income tax expense represents the sum of the tax currently payable and deferred tax.

The tax currently payable is based on taxable profit for the year. Taxable profit differs from profit/(loss) before tax because of income or expense that are taxable or deductible in other years and items that are never taxable or deductible. The Group's liability for current tax is calculated using tax rates that have been enacted or substantively enacted by the end of the reporting period.

Deferred tax is recognised on temporary differences between the carrying amounts of assets and liabilities in the consolidated financial statements and the corresponding tax bases used in the computation of taxable profit. Deferred tax liabilities are generally recognised for all taxable temporary differences. Deferred tax assets are generally recognised for all deductible temporary differences to the extent that it is probable that taxable profits will be available against which those deductible temporary differences can be utilised. Such deferred tax assets and liabilities are not recognised if the temporary difference arises from the initial recognition (other than in a business combination) of assets and liabilities in a transaction that affects neither the taxable profit nor the accounting profit.

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Taxation (Continued)

Deferred tax liabilities are recognised for taxable temporary differences associated with investments in subsidiaries and associates, except where the Group is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future. Deferred tax assets arising from deductible temporary differences associated with such investments and interests are only recognised to the extent that it is probable that there will be sufficient taxable profits against which to utilise the benefits of the temporary differences and they are expected to reverse in the foreseeable future.

The carrying amount of deferred tax assets is reviewed at the end of each reporting period and reduced to the extent that it is no longer probable that sufficient taxable profits will be available to allow all or part of the asset to be recovered.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the period in which the liability is settled or the asset is realised, based on tax rates (and tax laws) that have been enacted or substantively enacted by the end of the reporting period.

The measurement of deferred tax liabilities and assets reflects the tax consequences that would follow from the manner in which the Group expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities.

For the purposes of measuring deferred tax for leasing transactions in which the Group recognises the right-of-use assets and the related lease liabilities, the Group first determines whether the tax deductions are attributable to the right-of-use assets or the lease liabilities.

For leasing transactions in which the tax deductions are attributable to the lease liabilities, the Group applies HKAS 12 Income Taxes requirements to right-of-use assets and lease liabilities separately. Temporary differences relating to right-of-use assets and lease liabilities are not recognised at initial recognition and over the lease terms due to application of the initial recognition exemption. Temporary differences arising from subsequent revision to the carrying amounts of right-of-use assets and lease liabilities, resulting from remeasurement of lease liabilities and lease modifications, that are not subject to initial recognition exemption are recognised on the date of remeasurement or modification.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Taxation (Continued)

Deferred tax assets and liabilities are offset when there is a legally enforceable right to set off current tax assets against current tax liabilities and when they relate to income taxes levied to the same taxable entity by the same taxation authority.

Current and deferred tax are recognised in profit or loss, except when they relate to items that are recognised in other comprehensive income or directly in equity, in which case, the current and deferred tax are also recognised in other comprehensive income or directly in equity respectively. Where current tax or deferred tax arises from the initial accounting for a business combination, the tax effect is included in the accounting for the business combination.

In assessing any uncertainty over income tax treatments, the Group considers whether it is probable that the relevant tax authority will accept the uncertain tax treatment used, or proposed to be used by individual group entities in their income tax filings. If it is probable, the current and deferred taxes are determined consistently with the tax treatment in the income tax filings. If it is not probable that the relevant taxation authority will accept an uncertain tax treatment, the effect of each uncertainty is reflected by using either the most likely amount or the expected value.

Property, plant and equipment

Property, plant and equipment including buildings held for use in the production or supply of goods or services, or for administrative purpose (other than construction in progress as described below), are stated in the consolidated statement of financial position at cost, less subsequent accumulated depreciation and subsequent accumulated impairment losses, if any.

Properties in the course of construction for production, supply or administrative purposes are carried at cost, less any recognised impairment loss. Costs include any costs directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by management and, for qualifying assets, borrowing costs capitalised in accordance with the Group's accounting policy. Depreciation of these assets, on the same basis as other property assets, commences when the assets are ready for their intended use.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Property, plant and equipment (Continued)

Depreciation is recognised so as to write off the cost of assets other than construction in progress less their residual values over their estimated useful lives, using the straight-line method or the unit-of-production method.

Mining properties in the course of development or construction are included in construction in progress and are not depreciated. Capitalised mining properties costs are depreciated once commercial production commences, as described in "Property, plant and equipment – mining properties".

Depreciation for other property, plant and equipment (other than construction in progress) is calculated using the straight-line method to allocate their cost to their residual values over their estimated useful lives, as follows:

Land and buildings	10 to 30 years
Machinery and equipment	3 to 10 years
Motor vehicles	5 years

The estimated useful lives, residual values and depreciation method are reviewed at the end of each reporting period, with the effect of any changes in estimate accounted for on a prospective basis.

An item of property, plant and equipment is derecognised upon disposal or when no future economic benefits are expected to arise from the continued use of the asset. Any gain or loss arising on the disposal or retirement of an item of property, plant and equipment is determined as the difference between the sales proceeds and the carrying amount of the asset and is recognised in profit or loss.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Property, plant and equipment (Continued)

Mining properties

The costs of mining properties, which include the costs of acquiring and developing mining properties, are firstly capitalised as property, plant and equipment under the heading of "Construction in progress" in the year in which they are incurred and then reclassified to the heading of "Mining properties" when they are ready for commercial production.

When a decision is taken that a mining property is viable for commercial production, all pre-production primary development expenditure other than land, buildings, plant and equipment, etc. is capitalised as part of the cost of the mining property until the mining property is capable of commercial production. From that point, capitalised mining properties costs are depreciated on a unit-of-production basis over the total estimated remaining commercial reserves of each property or a group of properties.

Stripping costs incurred in the development of a mine (or pit) before the production commences are capitalised as part of the cost of constructing the mine (or pit) and subsequently amortised over the life of the mine (or pit) on a unit of production basis. Stripping costs and secondary development expenditure, mainly comprising costs on blasting, haulage, excavation, etc. incurred during the production stage of an ore body, to the extent that the benefit from these activities is realised in the form of improved access ore, is recognised as a non-current asset ("Mining properties ") when certain criteria are met, whereas the costs of normal on-going operational stripping activities are accounted for in accordance with HKAS 2.

In circumstances where a mining property is abandoned, the cumulative capitalised costs relating to the property are written off in the period.

Commercial reserves are proved and probable reserves. Changes in the commercial reserves affecting unit of production calculations are dealt with prospectively over the revised remaining reserves.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Mining rights

The cost of mining rights either as an individual asset purchase or as part of a business combination is capitalised and represents the asset's fair value at the date of acquisition.

Subsequent to initial recognition, mining rights are reported at costs less accumulated amortisation and any accumulated impairment losses. The costs of mining rights are amortised or depreciated on a unit-of-production basis over the total estimated remaining commercial reserves of each mine.

A mining right is derecognised on disposal, or when no future economic benefits are expected from use or disposal. Gains and losses arising from derecognition of a mining right, measured as the difference between the net disposal proceeds and the carrying amount of the asset, are recognised in profit or loss when the asset is derecognised.

Impairment on property, plant and equipment, right-of-use assets and mining rights

At the end of each reporting period, the Group reviews the carrying amounts of its property, plant and equipment, right-of-use assets and mining rights to determine whether there is any indication that these assets have suffered an impairment loss. If any such indication exists, the recoverable amount of the relevant asset is estimated in order to determine the extent of the impairment loss (if any).

The recoverable amount of property, plant and equipment, right-of-use assets and mining rights are estimated individually. When it is not possible to estimate the recoverable amount individually, the Group estimates the recoverable amount of the CGU to which the assets belong.

Recoverable amount is the higher of fair value less costs of disposal and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset (or a CGU) for which the estimates of future cash flows have not been adjusted.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Impairment on property, plant and equipment, right-of-use assets and mining rights (Continued)

If the recoverable amount of an asset (or a CGU) is estimated to be less than its carrying amount, the carrying amount of the asset (or a CGU) is reduced to its recoverable amount. For corporate assets or portion of corporate assets which cannot be allocated on a reasonable and consistent basis to a CGU, the Group compares the carrying amount of a group of CGUs, including the carrying amounts of the corporate assets or portion of corporate assets allocated to that group of CGUs, with the recoverable amount of the group of CGUs. In allocating the impairment loss, the impairment loss is allocated to the assets on a pro-rata basis based on the carrying amount of each asset in the unit or the group of CGUs. The carrying amount of an asset is not reduced below the highest of its fair value less costs of disposal (if measurable), its value in use (if determinable) and zero. The amount of the impairment loss that would otherwise have been allocated to the asset is allocated pro rata to the other assets of the unit or the group of CGUs. An impairment loss is recognised immediately in profit or loss.

Where an impairment loss subsequently reverses, the carrying amount of the asset (or CGU or a group of CGUs) is increased to the revised estimate of its recoverable amount, but so that the increased carrying amount does not exceed the carrying amount that would have been determined had no impairment loss been recognised for the asset (or a CGU or a group of CGUs) in prior years. A reversal of an impairment loss is recognised immediately in profit or loss.

Inventories

Inventories are stated at the lower of cost and net realisable value. Costs of inventories are determined on a weighted average method. Net realisable value represents the estimated selling price for inventories less all estimated costs of completion and costs necessary to make the sale.

Costs of inventories are determined on the following bases:

- Purchased copper concentrates and all other materials, including spare parts and consumables, are valued on weighted average basis.
- Finished products are valued at raw material cost plus costs of conversion, comprising labor costs and an attributable proportion of manufacturing overheads based on normal levels of activity.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Inventories (Continued)

Net realisable value represents the estimated selling price for inventories less all estimated costs of completion and costs necessary to make the sale.

Environmental rehabilitation

An obligation to incur restoration, rehabilitation and environmental costs arises when environmental disturbance is caused by the development or ongoing production of a mine or production facilities. Costs arising from facility decommissioning and dismantling; removal or treatment of waste materials; site and land rehabilitation, discounted to net present value, are provided for and a corresponding amount is capitalised at the start of each project, as soon as the obligation to incur such costs arises. These costs are charged to profit or loss over the life of the operation through the depreciation of the asset and the unwinding of the discount on the provision. The cost estimates are reviewed periodically and are adjusted to reflect known developments which may have an impact on the cost estimates or life of operations. The cost of the related asset is adjusted for changes in the provision due to factors such as updated cost estimates, new disturbance and revisions to discount rates. The adjusted cost of the asset is depreciated prospectively over the life of the operation. The unwinding of the discount is shown as a finance cost in profit or loss.

Costs for restoration of subsequent site damage which is caused on an ongoing basis during production are provided for at their net present values and charged to profit or loss as extraction progresses. Where the costs of site restoration are not anticipated to be significant, they are expensed as incurred.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments

Financial assets and financial liabilities are recognised when a group entity becomes a party to the contractual provisions of the instrument.

Financial assets and financial liabilities are initially measured at fair value except for trade receivables arising from contracts with customers which are initially measured in accordance with HKFRS 15 Revenue From Contracts With Customers ("HKFRS 15"). Transaction costs that are directly attributable to the acquisition or issue of financial assets and financial liabilities (other than financial assets and financial liabilities at fair value through profit or loss) are added to or deducted from the fair value of the financial assets or financial liabilities, as appropriate, on initial recognition. Transaction costs directly attributable to the acquisition of financial assets or financial liabilities at fair value through profit or loss are recognised immediately in profit or loss.

The effective interest method is a method of calculating the amortised cost of a financial asset or financial liability and of allocating interest income and interest expense over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash receipts and payments (including all fees and points paid or received that form an integral part of the effective interest rate, transaction costs and other premiums or discounts) through the expected life of the financial asset or financial liability, or, where appropriate, a shorter period, to the net carrying amount on initial recognition.

Financial assets

Classification and subsequent measurement of financial assets

Financial assets that meet the following conditions are subsequently measured at amortised cost:

- the financial asset is held within a business model whose objective is to collect contractual cash flows; and
- the contractual terms give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments (Continued)

Financial assets (Continued)

Classification and subsequent measurement of financial assets (Continued)

Financial assets that meet the following conditions are subsequently measured at fair value to other comprehensive income ("FVTOCI"):

- the financial asset is held within a business model whose objective is achieved by both selling and collecting contractual cash flows; and
- the contractual terms give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

All other financial assets are subsequently measured at FVTPL, except that at initial recognition of a financial asset the Group may irrevocably elect to present subsequent changes in fair value of an equity investment in other comprehensive income if that equity investment is neither held for trading nor contingent consideration recognised by an acquirer in a business combination to which HKFRS 3 Business Combinations ("HKFRS 3") applies.

A financial asset is held for trading if:

- it has been acquired principally for the purpose of selling in the near term; or
- on initial recognition it is a part of a portfolio of identified financial instruments that the Group manages together and has a recent actual pattern of short-term profit-taking; or
- it is a derivative that is not designated and effective as a hedging instrument.

In addition, the Group may irrevocably designate a financial asset that are required to be measured at the amortised cost or FVTOCI as measured at FVTPL if doing so eliminates or significantly reduces an accounting mismatch.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments (Continued)

Financial assets (Continued)

Classification and subsequent measurement of financial assets (Continued)

(i) Amortised cost and interest income

Interest income is recognised using the effective interest method for financial assets measured subsequently at amortised cost. Interest income is calculated by applying the effective interest rate to the gross carrying amount for a financial asset except for financial assets that have subsequently become credit-impaired. For financial assets that have subsequently become credit-impaired, interest income is recognised by applying the effective interest rate to the amortised cost of the financial asset from the next reporting period. If the credit risk on the credit-impaired financial instrument improves so that the financial asset is no longer credit-impaired, interest income is recognised by applying the effective interest rate to the gross carrying amount of the financial asset from the beginning of the reporting period following the determination that the asset is no longer credit-impaired.

(ii) Financial assets at FVTPL

Financial assets that do not meet the criteria for being measured at amortised cost or FVTOCI or designated as FVTOCI are measured at FVTPL.

Trade receivables under provisional priced sales arrangements are measured at FVTPL. Considering that the contractual cash flows of trade receivables vary depending on the market price at the date of final settlement, and do not give rise to cash flows that are solely payments of principal and interests on the principal amount outstanding.

Financial assets at FVTPL are measured at fair value at the end of each reporting period, with any fair value gains or losses recognised in profit or loss. The net gain or loss recognised in profit or loss excludes any dividend or interest earned on the financial asset and is included in the "other gains and losses" line item.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments (Continued)

Financial assets (Continued)

Impairment of financial assets and other item subject to impairment assessment under HKFRS 9

The Group performs impairment assessment under expected credit loss ("ECL") model on financial assets (including trade receivables at amortised cost, other receivables, deposits in futures margin accounts, restricted bank balances, and bank balances) and other item (finance lease receivables) which are subject to impairment assessment under HKFRS 9. The amount of ECL is updated at each reporting date to reflect changes in credit risk since initial recognition.

Lifetime ECL represents the ECL that will result from all possible default events over the expected life of the relevant instrument. In contrast, 12-month ECL ("12m ECL") represents the portion of lifetime ECL that is expected to result from default events that are possible within 12 months after the reporting date. Assessments are done based on the Group's historical credit loss experience, adjusted for factors that are specific to the debtors, general economic conditions and an assessment of both the current conditions at the reporting date as well as the forecast of future conditions.

The Group always recognises lifetime ECL for trade receivables at amortised cost and finance lease receivables. The ECL on these assets are assessed individually.

For all other instruments, the Group measures the loss allowance equal to 12m ECL, unless when there has been a significant increase in credit risk since initial recognition, in which case the Group recognises lifetime ECL. The assessment of whether lifetime ECL should be recognised is based on significant increases in the likelihood or risk of a default occurring since initial recognition.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments (Continued)

Financial assets (Continued)

Impairment of financial assets and other item subject to impairment assessment under HKFRS 9 (Continued)

(i) Significant increase in credit risk

In assessing whether the credit risk has increased significantly since initial recognition, the Group compares the risk of a default occurring on the financial instrument as at the reporting date with the risk of a default occurring on the financial instrument as at the date of initial recognition. In making this assessment, the Group considers both quantitative and qualitative information that is reasonable and supportable, including historical experience and forward-looking information that is available without undue cost or effort.

In particular, the following information is taken into account when assessing whether credit risk has increased significantly:

- significant deterioration in external market indicators of credit risk, e.g. a significant increase in the credit spread, the credit default swap prices for the debtor;
- existing or forecast adverse changes in business, financial or economic conditions that are expected to cause a significant decrease in the debtor's ability to meet its debt obligations;
- an actual or expected significant deterioration in the operating results of the debtor;
- an actual or expected significant adverse change in the regulatory, economic, or technological environment of the debtor that results in a significant decrease in the debtor's ability to meet its debt obligations.

Irrespective of the outcome of the above assessment, the Group presumes that the credit risk has increased significantly since initial recognition when contractual payments are more than 30 days past due, unless the Group has reasonable and supportable information that demonstrates otherwise.

The Group regularly monitors the effectiveness of the criteria used to identify whether there has been a significant increase in credit risk and revises them as appropriate to ensure that the criteria are capable of identifying significant increase in credit risk before the amount becomes past due.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments (Continued)

Financial assets (Continued)

Impairment of financial assets and other item subject to impairment assessment under HKFRS 9 (Continued)

(ii) Definition of default

For internal credit risk management, the Group considers an event of default occurs when information developed internally or obtained from external sources indicates that the debtor is unlikely to pay its creditors, including the Group, in full (without taking into account any collaterals held by the Group).

The Group considers that default has occurred when a financial asset is more than 90 days past due unless the Group has reasonable and supportable information to demonstrate that a more lagging default criterion is more appropriate.

(iii) Credit-impaired financial assets

A financial asset is credit-impaired when one or more events that have a detrimental impact on the estimated future cash flows of that financial asset have occurred. Evidence that a financial asset is credit-impaired includes observable data about the following events:

- (a) significant financial difficulty of the issuer or the borrower;
- (b) a breach of contract, such as a default or past due event;
- (c) the lender(s) of the borrower, for economic or contractual reasons relating to the borrower's financial difficulty, having granted to the borrower a concession(s) that the lender(s) would not otherwise consider;
- (d) it is becoming probable that the borrower will enter bankruptcy or other financial reorganisation; or
- (e) the disappearance of an active market for that financial asset because of financial difficulties.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments (Continued)

Financial assets (Continued)

Impairment of financial assets and other item subject to impairment assessment under HKFRS 9 (Continued)

(iv) Write-off policy

The Group writes off a financial asset when there is information indicating that the counterparty is in severe financial difficulty and there is no realistic prospect of recovery, for example, when the counterparty has been placed under liquidation or has entered into bankruptcy proceedings. Financial assets written off may still be subject to enforcement activities under the Group's recovery procedures, taking into account legal advice where appropriate. A write-off constitutes a derecognition event. Any subsequent recoveries are recognised in profit or loss.

(v) Measurement and recognition of ECL

The measurement of ECL is a function of the probability of default, loss given default (i.e. the magnitude of the loss if there is a default) and the exposure at default. The assessment of the probability of default and loss given default is based on historical data and forward-looking information. Estimation of ECL reflects an unbiased and probability-weighted amount that is determined with the respective risks of default occurring as the weights.

Generally, the ECL is the difference between all contractual cash flows that are due to the Group in accordance with the contract and the cash flows that the Group expects to receive, discounted at the effective interest rate determined at initial recognition. For a lease receivable, the cash flows used for determining the ECL is consistent with the cash flows used in measuring the lease receivable in accordance with HKFRS 16.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments (Continued)

Financial assets (Continued)

Impairment of financial assets and other item subject to impairment assessment under HKFRS 9 (Continued)

(v) Measurement and recognition of ECL (Continued)

Interest income is calculated based on the gross carrying amount of the financial asset unless the financial asset is credit impaired, in which case interest income is calculated based on amortised cost of the financial asset.

The Group recognises an impairment gain or loss in profit or loss for all financial instruments subject to impairment under HKFRS 9 by adjusting their carrying amount, with the exception of trade receivables at amortised cost and other receivables where the corresponding adjustment is recognised through a loss allowance account.

Derecognition of financial assets

The Group derecognises a financial asset only when the contractual rights to the cash flows from the asset expire, or when it transfers the financial asset and substantially all the risks and rewards of ownership of the asset to another entity. If the Group neither transfers nor retains substantially all the risks and rewards of ownership and continues to control the transferred asset, the Group recognises its retained interest in the asset and an associated liability for amounts it may have to pay. If the Group retains substantially all the risks and rewards of ownership of a transferred financial asset, the Group continues to recognise the financial asset and also recognises a collateralised borrowing for the proceeds received.

On derecognition of a financial asset measured at amortised cost, the difference between the asset's carrying amount and the sum of the consideration received and receivable is recognised in profit or loss.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments (Continued)

Classification as debt or equity

Debt and equity instruments are classified as either financial liabilities or as equity in accordance with the substance of the contractual arrangements and the definitions of a financial liability and an equity instrument.

Financial liabilities and equity

Equity instruments

An equity instrument is any contract that evidences a residual interest in the assets of an entity after deducting all of its liabilities. Equity instruments issued by the Company are recognised at the proceeds received, net of direct issue costs.

Perpetual instruments, which include no contractual obligation for the Group to deliver cash or other financial assets or the Group has the sole discretion to defer payment of distribution and redemption of principal amount indefinitely are classified as equity instruments.

Repurchase of the Company's own equity instruments is recognised and deducted directly in equity. No gain or loss is recognised in profit or loss on the purchase, sale, issue or cancellation of the Company's own equity instruments.

Financial liabilities

All financial liabilities are subsequently measured at amortised cost using the effective interest method or at FVTPL.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments (Continued)

Financial liabilities and equity (Continued)

Financial liabilities at FVTPL

Financial liabilities are classified as at FVTPL when the financial liability is (i) contingent consideration of an acquirer in a business combination to which HKFRS 3 applies, (ii) held for trading or (iii) it is designated as at FVTPL.

A financial liability is held for trading if:

- it has been acquired principally for the purpose of repurchasing it in the near term; or
- on initial recognition it is part of a portfolio of identified financial instruments that the Group manages together and has a recent actual pattern of short-term profit-taking; or
- it is a derivative, except for a derivative that is a financial guarantee contract or a designated and effective hedging instrument.

A financial liability other than a financial liability held for trading or contingent consideration of an acquirer in a business combination may be designated as at FVTPL upon initial recognition if:

- such designation eliminates or significantly reduces a measurement or recognition inconsistency that would otherwise arise; or
- the financial liability forms part of a group of financial assets or financial liabilities or both, which is managed and its performance is evaluated on a fair value basis, in accordance with the Group's documented risk management or investment strategy, and information about the grouping is provided internally on that basis; or
- it forms part of a contract containing one or more embedded derivatives, and HKFRS 9 permits the entire combined contract to be designated as at FVTPL.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments (Continued)

Financial liabilities and equity (Continued)

Financial liabilities at FVTPL (Continued)

For financial liabilities that are designated as at FVTPL, the amount of change in the fair value of the financial liability that is attributable to changes in the credit risk of that liability is recognised in other comprehensive income, unless the recognition of the effects of changes in the liability's credit risk in other comprehensive income would create or enlarge an accounting mismatch in profit or loss. For financial liabilities that contain embedded derivatives, such as trade payables arising from provisionally priced purchases, the changes in fair value of the embedded derivatives are excluded in determining the amount to be presented in other comprehensive income. Changes in fair value attributable to a financial liability's credit risk that are recognised in other comprehensive income are not subsequently reclassified to profit or loss; instead, they are transferred to retained profits upon derecognition of the financial liability.

The trade payables arising from provisional pricing arrangements of copper concentrates purchase are settled at final prices set at a specified future period after shipment by suppliers based on prevailing spot prices. These trade payables are designated at FVTPL on contract by contract basis.

Financial liabilities at amortised cost

Financial liabilities including bank and other borrowings, trade payables and other payables are subsequently measured at amortised cost, using the effective interest method.

Derecognition of financial liabilities

The Group derecognises financial liabilities when, and only when, the Group's obligations are discharged, cancelled or have expired. The difference between the carrying amount of the financial liability derecognised and the consideration paid and payable is recognised in profit or loss.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

3. BASIS OF PREPARATION OF CONSOLIDATED FINANCIAL STATEMENTS AND SIGNIFICANT ACCOUNTING POLICIES (CONTINUED)

3.2 Significant accounting policies (Continued)

Financial instruments (Continued)

Financial liabilities and equity (Continued)

Derivative financial instruments

The Group uses derivative financial instruments to hedge its commodity price risk. The Group's derivative financial instruments mainly include copper future contracts (mainly standardised copper cathode future contracts in London Metal Exchange ("LME")) and those embedded in provisional price arrangements.

Derivatives are initially recognised at fair value at the date when derivative contracts are entered into and are subsequently remeasured to their fair value at the end of the reporting period. The resulting gain or loss is recognised in profit or loss unless the derivative is designated and effective as a hedging instrument, in which case the timing of the recognition in profit or loss depends on the nature of the hedge relationship.

Embedded derivatives

Derivatives embedded in hybrid contracts that contain financial asset hosts within the scope of HKFRS 9 are not separated. The entire hybrid contract is classified and subsequently measured in its entirety as either amortised cost or fair value as appropriate.

Derivatives embedded in non-derivative host contracts that are not financial assets within the scope of HKFRS 9 are treated as separate derivatives when they meet the definition of a derivative, their risks and characteristics are not closely related to those of the host contracts and the host contracts are not measured at FVTPL.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

4. CRITICAL ACCOUNTING JUDGMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY

In the application of the Group's accounting policies, which are described in note 3, the Directors are required to make judgments, estimates and assumptions about the carrying amounts of assets and liabilities that are not readily apparent from other sources. The estimates and associated assumptions are based on historical experience and other factors that are considered to be relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an on-going basis. Revisions to accounting estimates are recognised in the period in which the estimate is revised if the revision affects only that period, or in the period of the revision and future periods if the revision affects both current and future periods.

Key sources of estimation uncertainty

The followings are the key assumptions concerning the future, and other key sources of estimation uncertainty at the end of the reporting period, that may have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year.

Impairment assessment of property, plant and equipment

Property, plant and equipment are stated at costs less accumulated depreciation and impairment, if any. In determining whether an asset is impaired, the Group has to exercise judgement and make estimation, particularly in assessing: (1) whether an event has occurred or any indicators that may affect the asset value; (2) whether the carrying value of an asset can be supported by the recoverable amount, in the case of value in use, the net present value of future cash flows which are estimated based upon the continued use of the asset; and (3) the appropriate key assumptions to be applied in estimating the recoverable amounts including cash flow projections and an appropriate discount rate. When it is not possible to estimate the recoverable amount of an individual asset, the Group estimates the recoverable amount of the CGU to which the assets belong, including allocation of corporate assets when a reasonable and consistent basis of allocation can be established, otherwise recoverable amount is determined at the smallest group of CGUs, for which the relevant corporate assets have been allocated. Changing the assumptions and estimations, including the discount rate or the growth rate in the cash flow projections, could materially affect the net present value used in the impairment test. Furthermore, the cash flows projections, growth rate and discount rate are subject to greater uncertainties in the current year due to uncertainty on how the Covid-19 pandemic may progress and evolve and volatility in financial markets.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

4. CRITICAL ACCOUNTING JUDGMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY (CONTINUED)

Key sources of estimation uncertainty (Continued)

Impairment assessment of property, plant and equipment (Continued)

As at 31 December 2020, the carrying amount of property, plant and equipment subject to impairment assessment was US\$779,257,000 (2019: US\$787,336,000). No impairment loss in respect of property, plant and equipment has been recognised. Details of the impairment test of property, plant and equipment are disclosed in note 15.

Depreciation of mining properties

Mining properties costs are depreciated using the unit of production method (the "UOP"). The calculation of the UOP rate of depreciation, and therefore the annual depreciation charge to operations, can fluctuate from initial estimates. This could generally result when there are significant changes in any of the factors or assumptions used in estimating mine reserves, notably changes in the geology of the reserves and assumptions used in determining the economic feasibility of the reserves. Such changes in reserves could similarly impact the useful lives of assets depreciated on a straight-line basis, where those lives are limited to the life of the project, which, in turn is limited to the lives of the proved and probable mineral reserves. Estimates of proved and probable reserves are prepared by experts in extraction, geology and reserve determination. Assessments of UOP rates against the estimated reserve base and the operating and development plan are performed regularly.

Restoration, rehabilitation and environmental costs

Provision is made for costs associated with restoration and rehabilitation of mining sites and certain production facilities of the Group as soon as the obligation to incur such costs arises. Such restoration and closure costs are typical of mining, leaching and smelting industries and they are normally incurred at the end of the life of the mine and production facilities. The costs are estimated on the basis of mine/plant closure plans and the estimated discounted costs of dismantling and removing these facilities and the costs of restoration are capitalised when incurred reflecting the Group's obligations at that time. A corresponding provision is created on the liability side.

The capitalised asset is charged to profit or loss through depreciation over the life of the operation and the provision is increased each period via unwinding the discount on the provision. The management estimates are mainly based on the local legislation. The actual costs and cash outflows may differ from estimates because of changes in laws and regulations, changes in prices, analysis of site conditions and changes in restoration technology.

The Group provides for such costs in accordance with the statutory requirements.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

4. CRITICAL ACCOUNTING JUDGMENTS AND KEY SOURCES OF ESTIMATION UNCERTAINTY (CONTINUED)

Key sources of estimation uncertainty (Continued)

Income taxes

The Group is subject to taxes in a number of jurisdictions. Significant judgement is required in determining the tax position and the estimates and assumptions in relation to the provision for taxes, the progressive tax rate applicable for deferred tax provisions and the recovery of deferred tax assets, having regard to the nature and timing of their origination and compliance with the relevant tax legislation.

As at 31 December 2020, a deferred tax asset of US\$20,588,000 (31 December 2019: US\$18,735,000) in relation to unused tax losses and impairment of property, plant and equipment has been recognised in the consolidated statement of financial position (see note 31). Deferred tax assets are recognised only if it is probable that future taxable profits will be available to utilise those temporary differences and losses, and the tax losses continue to be available having regard to the nature and timing of their origination and compliance with the relevant tax legislation associated with their recoupment. In addition, the applicable tax rate used in recognising deferred tax assets is determined by the forecast proportion of assessable income against gross sales and the timing of the usage of tax losses when the entity was granted income tax incentives.

Impairment for input VAT receivables

In assessing the recoverable amount of input VAT receivables, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset for which the estimates of future cash flows have not been adjusted. The amount of the impairment loss recognised is the difference between the asset's carrying amount and the present value of estimated future cash flows.

As at 31 December 2020, in view of impairment indicators, the Group performed an impairment assessment on input VAT receivables, the carrying amount of which, after deducting the provision of US\$15,899,000 (2019: US\$23,765,000), amounted to US\$120,607,000 (2019: US\$207,249,000). For the year ended 31 December 2020, an impairment of US\$7,866,000 was reversed (2019: US\$5,879,000 (losses)) in respect of input VAT receivables. Details of the impairment of input VAT receivables are disclosed in note 20.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

5. REVENUE FROM CONTRACTS WITH CUSTOMERS

(i) Disaggregation of revenue from contracts with customers

	2020	
	Leaching US\$'000	Smelting US\$'000
Types of goods		
Sales of goods to external customers		
Copper cathodes	662,897	–
Blister copper and copper anodes	–	1,781,780
Sulfuric acid	–	117,689
Liquid sulphur dioxide	–	15,629
Cobalt hydroxide	3,008	–
Copper products processing services	–	16,210
Total	665,905	1,931,308

Timing of revenue recognition

A point in time	665,905	1,931,308
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	2019	
	Leaching US\$'000	Smelting US\$'000
Types of goods		
Sales of goods to external customers		
Copper cathodes	553,672	–
Blister copper and copper anodes	–	1,344,641
Sulfuric acid	–	110,406
Total	553,672	1,455,047

Timing of revenue recognition

A point in time	553,672	1,455,047
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NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

5. REVENUE FROM CONTRACTS WITH CUSTOMERS (CONTINUED)

(ii) Performance obligations for contracts with customers

The Group sells copper products, sulphuric acid, liquid sulphur dioxide and cobalt hydroxide and renders copper products processing services to customers, revenue is recognised when control of the goods or services has transferred based on the terms of relevant contracts. In most cases, the control of goods has transferred upon delivery when the goods have been shipped at the Group's premises. In some other cases, the control of goods has transferred upon delivery at specific destination ports. Revenue from the rendering of copper products processing service is recognised when control of the completed processing copper products has transferred based on the terms of the service contracts. The Group normally requires prepayments from customers before goods dispatch with the remainder to be settled not exceeding one month upon issuance of sales invoice.

All sales are for periods of one year or less. As permitted under HKFRS 15, the transaction price allocated to these unsatisfied contracts is not disclosed.

6. SEGMENT INFORMATION

The Group's operating segments are identified on the basis of internal reports about components of the Group that are regularly reviewed by the board of directors (the "Board"), being the chief operating decision maker (the "CODM"), in order to allocate resources to the segments and to assess their performance.

Information reported to the CODM for the purposes of resource allocation and assessment of segment performance focuses on the types of goods produced. The Group's operating and reportable segments in current year under HKFRS 8 Operating Segments are as follows:

- Leaching – Production and sale of copper cathodes (including exploration and mining of oxide copper mines) which are produced using the solvent extraction-electrowinning technology; and
- Smelting – Production and sale of blister copper and copper anodes, copper-cobalt alloy, cobaltous hydroxide (including exploration and mining of sulfuric copper mines), and sulfuric acid which are produced using ISA smelting technology. Sulfuric acid and liquid sulphur dioxide are by-products in the production of blister copper and copper anodes and copper-cobalt alloy. Copper products processing services are also rendered using ISA smelting technology.

No operating segments have been aggregated to be derived from the reportable segments of the Group.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

6. SEGMENT INFORMATION (CONTINUED)

Segment revenue and results

The following is an analysis of the Group's revenue and results by reportable and operating segments:

For the year ended 31 December 2020

	Leaching US\$'000	Smelting US\$'000	Consolidated US\$'000
Total segment revenue	665,905	1,972,792	2,638,697
Less: inter-segment sales	–	(41,484)	(41,484)
Revenue from external customers	665,905	1,931,308	2,597,213
Segment profit	127,583	76,559	204,142
Unallocated income*			971
Unallocated expenses#			(8,173)
Profit for the year			196,940

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

6. SEGMENT INFORMATION (CONTINUED)

Segment revenue and results (Continued)

For the year ended 31 December 2019

	Leaching US\$'000	Smelting US\$'000	Consolidated US\$'000
Total segment revenue	553,672	1,515,610	2,069,282
Less: inter-segment sales	–	(60,563)	(60,563)
Revenue from external customers	553,672	1,455,047	2,008,719
Segment profit	145,893	89,685	235,578
Unallocated income*			3,579
Unallocated expenses#			(14,643)
Profit for the year			224,514

* The unallocated income mainly represents the interest income arising from the bank deposits and bank balances of the Company, China Nonferrous Mining Holdings Limited ("CNMH"), a directly wholly-owned subsidiary of the Company which directly holds the Group's shareholdings in the subsidiaries in Zambia, China Nonferrous Mining Hong Kong Holdings Limited ("CNMHK"), a directly non-wholly-owned subsidiary of the Company which directly holds the Group's shareholdings in three subsidiaries ("DRC"), and China Nonferrous Mining Hong Kong Investment Limited ("CNMHKI"), a directly wholly-owned subsidiary of the Company which directly holds the Group's shareholdings in the other three subsidiaries in DRC (collectively referred to as the "Holding Companies").

The unallocated expenses mainly represent the administrative expenses, interest expenses and income tax expenses of the Holding Companies.

The accounting policies of the operating and reportable segments are the same as the Group's accounting policies described in note 3. Segment profit represents the profit earned by each segment. This is the measure reported to the CODM for the purposes of resource allocation and performance assessment.

Inter-segment sales are charged at prevailing market rates.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

6. SEGMENT INFORMATION (CONTINUED)

Segment assets and liabilities

The following is an analysis of the Group's assets and liabilities by reportable and operating segments:

	2020 US\$'000	2019 US\$'000
Segment assets		
Leaching	1,005,540	801,444
Smelting	2,509,331	2,326,832
Total segment assets	3,514,871	3,128,276
Unallocated assets*	29,178	190,694
Elimination	(10,690)	(3,439)
Consolidated assets	3,533,359	3,315,531
Segment liabilities		
Leaching	401,246	367,736
Smelting	1,427,834	1,311,231
Total segment liabilities	1,829,080	1,678,967
Unallocated liabilities*	56,027	103,927
Elimination	(10,690)	(3,439)
Consolidated liabilities	1,874,417	1,779,455

* The unallocated assets and liabilities mainly represent those of the Holding Companies.

For the purposes of monitoring segment performance and allocating resources between segments, all assets and liabilities, other than certain assets and liabilities of the Holding Companies, are allocated to reportable and operating segments.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

6. SEGMENT INFORMATION (CONTINUED)

Other segment information

Amounts included in the measure of segment profit and segment assets:

For the year ended 31 December 2020

	Leaching US\$'000	Smelting US\$'000	Unallocated US\$'000	Consolidated US\$'000
Addition to non-current assets*	232,162	36,540	28	268,730
Depreciation of property, plant and equipment	80,080	76,833	–	156,913
Depreciation of right-of-use assets	–	4,965	–	4,965
Amortisation of mining rights	140	–	–	140
Write-down of inventories	–	21,700	–	21,700
Impairment of mining rights	16,898	–	–	16,898
Interest income [#]	356	10	971	1,337
Finance costs	5,972	31,050	–	37,022
(Loss) gain arising on change in fair value of				
– Financial liabilities designated at FVTPL	(12,241)	(29,602)	–	(41,843)
– trade receivables at FVTPL	19,443	71,716	–	91,159
– trade payables designated at FVTPL	–	(91,188)	–	(91,188)
Income tax expense	60,938	48,862	3,115	112,915

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

6. SEGMENT INFORMATION (CONTINUED)

Other segment information (Continued)

For the year ended 31 December 2019

	Leaching US\$'000	Smelting US\$'000	Unallocated US\$'000	Consolidated US\$'000
Addition to non-current assets*	161,769	409,336	5	571,110
Depreciation of property, plant and equipment	75,987	32,888	–	108,875
Depreciation of right-of-use assets	–	5,543	–	5,543
Amortisation of mining rights	883	–	–	883
Write-down of inventories	–	8,535	–	8,535
Interest income [#]	3,241	118	2,183	5,542
Finance costs	8,815	7,817	24	16,656
(Loss) gain arising on change in fair value of				
– Financial liabilities designated at FVTPL	(3,147)	1,495	–	(1,652)
– trade receivables at FVTPL	(212)	727	–	515
– trade payables designated at FVTPL	–	(3,096)	–	(3,096)
Income tax expense	51,346	39,124	9,051	99,521

* Non-current assets exclude financial instruments, input VAT receivables and deferred tax assets.

[#] Unallocated interest income represents interest income earned from bank balances of the Holding Companies.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

6. SEGMENT INFORMATION (CONTINUED)

Geographical information

The Group's operations are mainly in Zambia and DRC. US\$1,185,546,000 (2019: US\$1,289,435,000) and US\$720,041,000 (2019: US\$596,775,000) of the Group's non-current assets (other than financial instruments, input VAT receivables and deferred tax assets) are in Zambia and DRC, respectively, by location of the assets.

The Group's revenue from external customers by their geographical locations which are based on the destination of shipments is detailed below:

	2020 US\$'000	2019 US\$'000
Mainland China	1,235,400	909,799
Hong Kong	623,644	564,478
Switzerland	326,584	171,824
Singapore	158,943	229,069
Africa	164,575	83,991
Luxemburg	88,067	49,558
	2,597,213	2,008,719

Information about major customers

Revenue from customers individually contributing over 10% of the total revenue of the Group are as follows:

	2020 US\$'000	2019 US\$'000
Customer A ¹		
– Leaching	425,825	360,972
– Smelting	776,479	548,805
	1,202,304	909,777
Customer B ¹		
– Smelting	526,673	415,850

¹ Revenue from copper products

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

7. OTHER INCOME

	2020 US\$'000	2019 US\$'000
Interest income	1,337	5,542
Government grants	1,658	341
Net income from sale of spare parts and other materials	2,400	2,650
Net income from service of custom clearance	703	1,767
Others	1,536	3,155
	7,634	13,455

8. OTHER GAINS AND LOSSES

	2020 US\$'000	2019 US\$'000
Loss on disposal of property, plant and equipment, net	(408)	(300)
Impairment loss reversed (recognised) in respect of		
– input VAT receivables	7,866	(5,879)
– financial assets under ECL	(13,845)	2,316
– mining rights	(16,898)	–
Foreign exchange losses, net*	(57,703)	(24,883)
(Loss) gain from changes in fair value of financial liabilities/assets at FVTPL		
– financial liabilities designated at FVTPL	(41,843)	(1,652)
– trade receivables at FVTPL	91,159	515
– trade payables designated at FVTPL	(91,188)	(3,096)
	(122,860)	(32,979)

* The amount included exchange losses arising from the retranslation of input VAT receivables denominated in Zambia Kwacha ("ZMK") to US\$ amounting to US\$52,780,000 during the current year (2019: US\$23,344,000).

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

9. FINANCE COSTS

	2020 US\$'000	2019 US\$'000
Interest on bank and other borrowings	51,352	61,947
Interest on lease liabilities	938	–
Unwinding of the discount (<i>note 30</i>)	802	926
	53,092	62,873
Less: amounts capitalised in construction in progress arose on the borrowings specifically for the purpose of qualifying assets	(16,070)	(46,217)
	37,022	16,656
The weighted average capitalisation rate used to determine the amount of borrowing costs arose on the borrowings specifically eligible for capitalisation (<i>per annum</i>)	3.72%-5.34%	5.48%

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

10. INCOME TAX EXPENSE

Income tax expense recognised in profit or loss:

	2020 US\$'000	2019 US\$'000
Current tax:		
– Income tax in The Republic of Ireland ("Ireland")	5	5
– Income tax in DRC	34,900	30,975
– Income tax in Zambia	61,405	45,271
	96,310	76,251
Deferred tax (note 31)		
– Current year	16,605	23,270
Total income tax expense	112,915	99,521

Income tax in Ireland is calculated at 12.5% (2019: 12.5%) on the estimated assessable income.

Income tax in DRC is calculated at 30% (2019: 30%) on the estimated assessable income where 30% of the assessable income exceeds 1% of gross sales, and calculated at 1% of gross sales where 30% of the assessable income does not exceeds 1% of gross sales.

Income tax in Zambia is calculated at 35% (2019: 35%) on the assessable income, except for that arising from mining activities which is stated as below.

For both reporting periods, the applicable tax rate on income from mining operation in Zambia is 30% where the assessable income does not exceed 8% of gross sales and variable tax rate up to 15% plus 30% where the assessable income exceed 8% of gross sales, and the mineral royalty is not allowed to deduct from profit before tax. Accordingly for both reporting periods, the applicable tax rate on the assessable income of Chambishi Copper Smelter Limited ("CCS") is 35%, and the applicable tax rate on the assessable income of NFCA, CNMC Luanshya Copper Mines PLC ("Luanshya") and Sino-metals Leach Zambia Limited ("SML") ranges from 30% to 45%.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

10. INCOME TAX EXPENSE (CONTINUED)

The Group enjoyed the following income tax incentives:

- CCS is eligible for the tax exemption for the first five profitable years; 50% income tax relief for the next three years thereafter; and 25% of income tax relief for the next two years thereafter. The tax incentives are applicable to the assessable profit generated from the two different phases of production facilities of CCS with different dates of commencement of the tax incentives. One of the phases of production facilities of CCS is not eligible for income tax relief for the first year during 2020 (2019: 25%). The remaining phase of production facilities of CCS is under the first year of 50% income tax relief during the current year (2019: 100%). The actual applicable tax rate of CCS is 27.1% during the current year (2019: 14.4%).

According to the Convention between the Republic of Zambia and Ireland for the Avoidance of Double Taxation and the Prevention of Fiscal Evasion with respect to Tax on, which is effective on 1 January 2016, certain dividend paid by a company which is a resident of Zambia to a resident of Ireland may be taxed in Zambia according to tax law of Zambia, but as the beneficial owner of the dividends is a resident of Ireland, the tax so charged shall not exceed 7.5% of the gross amount of the dividends in Zambia. Therefore certain dividend income of CNMH from CCS is subject to withholding tax in Zambia at tax rate of 7.5% (2019: 7.5%) and certain dividend income of CNMH from Luanshya, NFCA and SML is under withholding tax relief for both years.

Certain dividend income of CNMHK from DRC subsidiaries is subject to withholding tax in DRC at tax rate of 10% (2019: 10%).

At the end of the reporting period, deferred tax liability of US\$39,466,000 (2019: US\$41,358,000) has been provided for temporary differences associated with undistributed earnings of these subsidiaries (see note 31).

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

10. INCOME TAX EXPENSE (CONTINUED)

The income tax expense for the year can be reconciled to the profit before tax per the consolidated statement of profit or loss and other comprehensive income as follows:

	2020 US\$'000	2019 US\$'000
Profit before tax	309,855	324,035
Tax at income tax rate in Ireland – for operations at 12.5%	5	5
Tax at income tax rate in DRC – for operations at 30%	21,103	25,558
Tax at income tax rate in Zambia – for operations at 30%	37,470	27,150
– for operations at 35%	34,230	49,333
	92,808	102,046
Tax effect of expenses not deductible for tax purpose	18,589	19,110
Deferred and withholding tax on undistributed earnings	3,010	9,600
Effect of tax incentives granted to the Group	(11,187)	(31,235)
Effect of deferred taxation on deductible temporary differences not recognised	6,584	–
Tax effect of income tax rate at 1% of gross sales	3,111	–
Income tax expense for the year	112,915	99,521

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

10. INCOME TAX EXPENSE (CONTINUED)

Other taxes

The Group is also subject to other non-income taxes as below:

The Group is subject to VAT at 16% (2019: 16%) on purchases and sales in Zambia and DRC whereas VAT is exempted on export, and relevant input VAT paid for purchases supported by valid VAT invoices could be refunded by the Zambia Revenue Authority and DRC to the extent total input VAT paid on purchases exceeds total output VAT payable on domestic sales.

For both reporting periods, the mineral royalty rates are applicable for both open cast mining operations and underground mining operations in Zambia and DRC.

In Zambia, the mineral royalty is at the rate of 5.5% when the norm price of copper is less than US\$4,500 per tonne, 6.5% when the norm price of copper is US\$4,500 per tonne or greater but less than US\$6,000 per tonne, 7.5% when the norm price of copper is US\$6,000 per tonne or greater but less than US\$7,500 per tonne, 8.5% when the norm price of copper is US\$7,500 per tonne or greater but less than US\$9,000 per tonne and 10% when the norm price of copper is US\$9,000 per tonne or greater.

In DRC, the mineral royalty is at the rate of 3.5% (2019: 3.5%) for copper products.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

11. PROFIT FOR THE YEAR

Profit for the year has been arrived at after charging:

	2020 <i>US\$'000</i>	2019 <i>US\$'000</i>
Depreciation of property, plant and equipment	156,913	108,875
Depreciation of right-of-use assets	4,965	5,543
Amortisation of mining right	140	883
Total depreciation and amortisation	162,018	115,301
Less: capitalised in inventories	(139,418)	(100,010)
capitalised in construction in progress	(7,660)	(5,052)
	14,940	10,239
Auditor's remuneration	1,012	1,017
Staff costs (including Directors' remuneration as disclosed in note 12):		
Salaries, wages and welfare	104,534	94,437
Retirement benefit schemes contributions	9,157	8,270
Total staff costs	113,691	102,707
Less: capitalised in inventories	(65,943)	(52,864)
capitalised in construction in progress	(15,135)	(23,171)
	32,613	26,672
Cost of inventories recognised as an expense	1,967,771	1,540,246

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

12. DIRECTORS', CHIEF EXECUTIVE'S AND EMPLOYEES' EMOLUMENTS

Directors

Details of the emoluments paid or payable to the Directors are as follows:

2020					
Name of director	Other emoluments				Total emoluments US\$'000
	Fees US\$'000	Salaries and other allowances US\$'000	Discretionary performance bonus* US\$'000	Retirement benefit schemes contributions US\$'000	
Executive Directors					
Mr. Jinjun Zhang (i)	-	-	-	-	-
Mr. Tongzhou Wang (ii)	-	-	-	-	-
Mr. Xiaowei Wang	-	-	-	-	-
Mr. Wei Fan (iii)	-	109	32	2	143
Mr. Lin Zhang (iv)	-	55	-	3	58
Mr. Chunlai Wang	-	137	52	7	196
Mr. Kaishou Xie (v)	-	-	-	-	-
	-	301	84	12	397
Independent Non-executive Directors					
Mr. Chuanyao Sun	35	-	-	-	35
Mr. Jingwei Liu	35	-	-	-	35
Mr. Huanfei Guan	35	-	-	-	35
	105	-	-	-	105
Total					502

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

12. DIRECTORS', CHIEF EXECUTIVE'S AND EMPLOYEES' EMOLUMENTS (CONTINUED)

Directors (Continued)

2019					
Name of director	Other emoluments				Total emoluments <i>US\$'000</i>
	Fees <i>US\$'000</i>	Salaries and other allowances <i>US\$'000</i>	Discretionary performance bonus* <i>US\$'000</i>	Retirement	
				benefit	
				schemes contributions <i>US\$'000</i>	
Executive Directors					
Mr. Tongzhou Wang <i>(ii)</i>	–	–	–	–	–
Mr. Xiaowei Wang	–	–	–	–	–
Mr. Lin Zhang <i>(iv)</i>	–	115	32	11	158
Mr. Chunlai Wang	–	112	59	11	182
Mr. Kaishou Xie <i>(v)</i>	–	–	–	–	–
	–	227	91	22	340
Non-Executive Directors					
Mr. Jinjun Zhang <i>(i)</i>	–	–	–	–	–
Mr. Diyong Yan <i>(vi)</i>	–	–	–	–	–
	–	–	–	–	–
Independent Non-executive Directors					
Mr. Chuanyao Sun	34	–	–	–	34
Mr. Jingwei Liu	34	–	–	–	34
Mr. Huanfei Guan	34	–	–	–	34
	102	–	–	–	102
Total					442

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

12. DIRECTORS', CHIEF EXECUTIVE'S AND EMPLOYEES' EMOLUMENTS (CONTINUED)

Directors (Continued)

- (i) Mr. Jinjun Zhang resigned as non-executive director of the Company and was appointed as executive director of the Company with effect from 14 October 2020, and was appointed as the chairman of the Board with effect from 8 January 2021.
 - (ii) Mr. Tongzhou Wang resigned as the chairman of the Board and executive director of the Company with effect from 4 September 2020.
 - (iii) Mr. Wei Fan was appointed as executive director of the Company with effect from 24 March 2020 and resigned as executive director of the Company with effect from 14 October 2020.
 - (iv) Mr. Lin Zhang resigned as executive director of the Company with effect from 14 October 2020.
 - (v) Mr. Kaishou Xie resigned as executive director of the Company with effect from 24 March 2020.
 - (vi) Mr. Diyong Yan resigned as non-executive director of the Company with effect from 29 March 2019.
- * Certain executive directors of the Company are entitled to bonus payments which are determined based on operation results of the subsidiaries for which the director is in charge.

The executive directors' emoluments shown above were mainly for their services in connection with the management of the affairs of the Company and the Group.

The independent non-executive directors' emoluments shown above were mainly for their services as directors of the Company.

No Directors waived any emoluments in the year ended 31 December 2020 (2019: Nil).

Mr. Jinjun Zhang, the chairman of the Board, assumes the role as a vice president in CNMC and his emoluments for services rendered by him to the Group commencing from the date of appointment have been borne by CNMC.

Mr. Tongzhou Wang, the former chairman of the Board, assumes the role as a chief executive officer in CNMC and his emoluments for services rendered by him to the Group commencing from the date of appointment to the date of resignation had been borne by CNMC.

Mr. Xiaowei Wang assumes the role in CNMC and his emoluments for services rendered by him to the Group commencing from the date of his appointment have been borne by CNMC.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

12. DIRECTORS', CHIEF EXECUTIVE'S AND EMPLOYEES' EMOLUMENTS (CONTINUED)

Directors (Continued)

Mr. Kaishou Xie has assumed a role in CNMC from May 2017 to 24 March 2020. His emoluments for services rendered to the Group have been borne by CNMC during the period.

Mr. Diyong Yan's emoluments for services rendered to the Group have been borne by CNMC.

Employees

The five highest paid employees of the Group during the year included two directors (2019: one director), details of whose remuneration are set out in the disclosure above. Details of the remuneration for the year of the remaining three (2019: four) highest paid employees who are neither a director nor chief executive of the Company are as follows:

	2020 <i>US\$'000</i>	2019 <i>US\$'000</i>
Salaries, other allowances and bonus	349	515
Discretionary performance bonus	119	224
Retirement benefit schemes contributions	14	30
	482	769

The number of the highest paid employees who are not the directors of the Company whose remuneration fell within the following bands is as follows:

	2020 <i>Number of employees</i>	2019 <i>Number of employees</i>
HK\$1,000,001 to HK\$1,500,000	3	2
HK\$1,500,001 to HK\$2,000,000	–	2
	3	4

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

13. DIVIDENDS

	2020 US\$'000	2019 US\$'000
Dividends recognised as distribution during the year:		
2020 Final, paid – US ¢ 0.7740 per share	27,005	–
2019 Final, paid – US ¢ 0.8384 per share	–	29,252

Subsequent to the end of the reporting period, a final dividend in respect of the year ended 31 December 2020 of US ¢ 1.4327 (2019: final dividend in respect of the year ended 31 December 2019 of US ¢ 0.7740) per share, in an aggregate amount of US\$49,987,419 (2019: US\$27,005,200), has been proposed by the Directors and is subject to the approval of the shareholders of the Company in the forthcoming annual general meeting.

14. EARNINGS PER SHARE

The calculation of the basic and diluted earnings per share attributable to the owners of the Company is based on the following data:

	2020	2019
Profit for the year attributable to owners of the Company for the purpose of basic and diluted earnings per share (<i>in US\$'000</i>)	124,965	134,874
Number of ordinary shares for the purpose of basic and diluted earnings per share (<i>in '000</i>)	3,489,036	3,489,036
Earnings per share		
– Basic and diluted (<i>US cents per share</i>)	3.58	3.87
– Basic and diluted (<i>equivalent to approximately HK\$ per share</i>)	0.28	0.30

During the two years ended 31 December 2020 and 2019, there was no potential ordinary share outstanding with diluted impact.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

15. PROPERTY, PLANT AND EQUIPMENT

	Mining properties US\$'000	Land and buildings US\$'000	Machinery and equipment US\$'000	Motor vehicles US\$'000	Construction in progress US\$'000	Total US\$'000
Cost						
At 1 January 2019	484,114	471,142	755,089	70,063	784,827	2,565,235
Additions	–	865	24,518	28,380	453,751	507,514
Transfer from construction in progress	97,007	99,101	119,969	–	(316,077)	–
Disposals	–	–	(1,943)	(1,878)	–	(3,821)
At 31 December 2019	581,121	571,108	897,633	96,565	922,501	3,068,928
Additions	6,688	2,214	17,892	24,639	132,753	184,186
Transfer from construction in progress	381,393	184,787	259,591	–	(825,771)	–
Disposals	–	(70)	(5,654)	(2,064)	–	(7,788)
At 31 December 2020	969,202	758,039	1,169,462	119,140	229,483	3,245,326
Depreciation and impairment						
At 1 January 2019	(330,130)	(188,972)	(535,200)	(55,916)	(159,568)	(1,269,786)
Depreciation	(27,607)	(22,175)	(51,964)	(7,129)	–	(108,875)
Transfer of impairment	(22,515)	(14,112)	(21,387)	–	58,014	–
Disposals	–	–	1,653	1,814	–	3,467
At 31 December 2019	(380,252)	(225,259)	(606,898)	(61,231)	(101,554)	(1,375,194)
Depreciation	(32,238)	(29,738)	(80,070)	(14,867)	–	(156,913)
Transfer of impairment	(60,287)	(14,763)	(13,119)	–	88,169	–
Disposals	–	70	4,718	1,990	–	6,778
At 31 December 2020	(472,777)	(269,690)	(695,369)	(74,108)	(13,385)	(1,525,329)
Carrying amounts						
At 31 December 2020	496,425	488,349	474,093	45,032	216,098	1,719,997
At 31 December 2019	200,869	345,849	290,735	35,334	820,947	1,693,734

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

15. PROPERTY, PLANT AND EQUIPMENT (CONTINUED)

Note: As at 31 December 2020, owing to actual operating results below management's expectation set out in the prior year, management specifically assessed whether NFCA's property, plant and equipment of which carrying amount was US\$779,257,000 (2019: US\$787,336,000) at 31 December 2020 may have impairment. As it is not possible to estimate the recoverable amount of the property, plant and equipment of NFCA individually, the Group estimated the recoverable amount of the CGU to which NFCA's property, plant and equipment belong ("NFCA CGU").

The recoverable amount of NFCA CGU has been determined based on such CGU's value in use. The cash flows were determined based on cash flow projections which incorporate management's best estimates of mining plan, future copper prices, production cost, capital expenditures and discount rates.

As a result of impairment assessment as at 31 December 2020, the Directors determined there was no further impairment for NFCA CGU.

The significant estimation and inputs used in calculating the NFCA CGU's cash flows included future copper price as summarised below, a pre-tax discount rate of 20.22% (2019: 15.86%) per annum, and mine reserves based on the most recent reserve report.

For the year ended 2020:

	2021–2025		Long term average US\$
	2021 US\$	Average US\$	
Copper price (<i>per ton</i>)	7,029	7,055	7,000

For the year ended 2019:

	2020–2024		Long term average US\$
	2020 US\$	Average US\$	
Copper price (<i>per ton</i>)	6,000	6,298	7,051

Future copper price with reference to the market estimation has taken into account the historical fluctuation.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

16. RIGHT-OF-USE ASSETS

	Leased properties	
	<i>US\$'000</i>	
Cost		
At 1 January 2019		8,041
Addition		17,362
At 31 December 2019 and 31 December 2020		25,403
Amortisation		
At 1 January 2019		–
Addition		(5,543)
At 31 December 2019		(5,543)
Addition		(4,965)
At 31 December 2020		(10,508)
Carrying amount		
At 31 December 2020		14,895
At 31 December 2019		19,860
	2020	2019
	US\$'000	US\$'000
Expense relating to short-term leases	371	125
Total cash outflow for leases	6,518	125
Additions to right-of-use assets*	–	17,362

* Amount included right-of-use assets resulting from lease modifications.

For both years, the Group leases properties for its operations. Lease contract is entered into for a fixed term of 4 years. In determining the lease term and assessing the length of the non-cancellable period, the Group applies the definition of a contract and determines the period for which the contract is enforceable.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

17. MINING RIGHTS

	Mining rights US\$'000
Cost	
At 1 January 2019	–
Addition (<i>note a,b</i>)	79,108
At 31 December 2019	79,108
Addition (<i>note a</i>)	75,000
At 31 December 2020	154,108
Amortisation and impairment	
At 1 January 2019	–
Addition	(883)
At 31 December 2019	(883)
Amortisation	(140)
Impairment (<i>note b</i>)	(16,898)
At 31 December 2020	(17,921)
Carrying amount	
At 31 December 2020	136,187
At 31 December 2019	78,225

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

17. MINING RIGHTS (CONTINUED)

Notes:

- a. During 2019, mining rights amounting to US\$58,774,000 was contributed by a non-controlling shareholder (the "Party A") of a subsidiary of the Company (the "Entity") and was recognised in the consolidated financial statements.

A new supplemental operation agreement dated 20 June 2020 was entered into among the Group, the Entity, and Party A, pursuant to which, the Entity paid a one-off entry fee (the "Entry Fee") amounting to US\$75,000,000 for the mining rights (the "Mining Rights") to Party A in three installments.

In the opinion of the Directors, the Entry Fee was an additional consideration for the use of the Mining Rights and was recognised as mining rights in the consolidated financial statements.

- b. During 2019, the Group obtained two leasehold mining rights and recognised as mining rights. As at 31 December 2020, due to the estimated commercial reserves of the mine was less than the expected mine reserves, the Group performed an impairment assessment on the mining rights, the carrying amount of which, after deducting the provision of US\$16,898,000 (2019: nil), was US\$2,726,000 (2019: US\$19,624,000). For the year ended 31 December 2020, an impairment loss of US\$16,898,000 was recognised (2019: nil) in respect of the mining rights.

18. INVENTORIES

	2020 US\$'000	2019 US\$'000
Raw materials	415,646	323,677
Spare parts and consumables	89,699	101,528
Work in progress	110,149	84,203
Finished goods	55,933	20,685
	671,427	530,093

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

19. TRADE RECEIVABLES AT AMORTISED COST/TRADE RECEIVABLES AT FVTPL

	2020 US\$'000	2019 US\$'000
Trade receivables at amortised cost – contracts with customers	22,463	12,020
Less: Allowance for credit losses	(1,797)	(524)
	20,666	11,496
Trade receivables at FVTPL – contracts with customers	227,740	162,212

The following is an aged analysis of trade receivables at amortised cost, net of allowance for credit losses, presented based on the invoice dates:

	2020 US\$'000	2019 US\$'000
0 to 30 days	13,625	6,450
31 to 90 days	7,041	3,263
91 to 180 days	–	360
181 to 365 days	–	1,423
	20,666	11,496

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

19. TRADE RECEIVABLES AT AMORTISED COST/TRADE RECEIVABLES AT FVTPL (CONTINUED)

The following is an aged analysis of trade receivables at FVTPL, presented based on the invoice dates:

	2020 US\$'000	2019 US\$'000
0 to 30 days	196,126	144,259
31 to 90 days	27,472	13,085
91 to 180 days	4,142	4,868
	227,740	162,212

Details of impairment assessment of trade receivables at amortised cost are set out in note 34.

Included in the Group's trade receivables at amortised cost/trade receivables at FVTPL are balances with the following related parties:

	2020 US\$'000	2019 US\$'000
Trade receivables at amortised cost:		
Fellow subsidiaries	2,999	4,761
Trade receivables at FVTPL:		
Fellow subsidiaries	120,313	56,266
Subsidiaries of a non-controlling shareholder of a subsidiary	60,675	51,016
	180,988	107,282

The above balances with related parties are unsecured, interest-free and are receivable according to the relevant sales contracts.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

20. PREPAYMENTS AND OTHER RECEIVABLES

	2020 US\$'000	2019 US\$'000
Non-current:		
Deposits for property, plant and equipment	670	3,019
Deposits in connection with the restoration and rehabilitation obligations (<i>note 30</i>)	2,378	2,139
Premium for electricity supply (<i>notes a and b</i>)	14,128	9,861
Loan receivable from a non-controlling shareholder of a subsidiary	7,626	–
Input VAT receivables, net (<i>note c</i>)	9,706	79,372
	34,508	94,391
Current:		
Prepayments for inventories and others	22,764	50,950
Input VAT receivables, net (<i>note c</i>)	110,901	127,877
Deposits in futures margin accounts	43,874	31,257
Other receivables	20,761	7,985
Less: allowance for credit losses	(12,572)	–
	185,728	218,069

Notes:

- a. Pursuant to a power supply agreement (the "Luanshya Power Supply Agreement") and a connection agreement (the "Luanshya Connection Agreement") entered into between Luanshya and Copperbelt Energy Corporation Plc ("Copperbelt Energy"), a power supply company in Zambia, Luanshya undertook to construct certain power supply network assets (the "Luanshya Network Assets") to enable Copperbelt Energy to supply the electricity to the mining/leaching project of Luanshya in Muliashi, Copperbelt Province of Zambia. According to the Luanshya Connection Agreement, Luanshya transferred the Luanshya Network Assets to Copperbelt Energy upon the completion of the construction in March 2012 at a consideration of US\$3,725,000. Luanshya received the consideration during the year ended 31 December 2016.

The total construction cost of the Luanshya Network Assets is US\$9,442,000 and the construction of the Luanshya Network Assets completed in March 2012.

The Directors consider that the difference between the construction costs for the Luanshya Network Assets and the consideration received from Copperbelt Energy amounting to US\$5,717,000 was, in substance, premium for electricity supply that will be amortised over the tenure of the Luanshya Power Supply Agreement (expiring in January 2025) upon the commencement of electricity consumption by Luanshya. During the year ended 31 December 2020, premium for electricity supply released to profit or loss is amounting to US\$440,000 (2019: US\$440,000). As at 31 December 2020, premium for electricity supply is amounting to US\$1,979,000 (2019: US\$2,419,000).

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

20. PREPAYMENTS AND OTHER RECEIVABLES (CONTINUED)

Notes: (Continued)

- b. Pursuant to a connection agreement (the "NFCA Connection Agreement") entered into between NFCA and Copperbelt Energy, NFCA undertook to construct certain power supply network assets (the "NFCA Network Assets") to enable Copperbelt Energy to supply the electricity to the Chambishi Southeast Mine Project of NFCA at Chambishi, Copperbelt Province of Zambia. According to the NFCA Connection Agreement, NFCA shall transfer the NFCA Network Assets to Copperbelt Energy on the date which Copperbelt Energy issues a Taking-Over Certificate. A consideration of US\$4,695,000 will be paid by Copperbelt Energy to NFCA within the seventh anniversary from the date of transfer, subject to NFCA's fulfillment of consumption of electricity prescribed in the NFCA Connection Agreement.

The construction of NFCA Network Assets is completed and is in progress of transferring to Copperbelt Energy. The construction cost of the NFCA Network Assets is US\$12,819,000 as at 31 December 2020 (2019: US\$7,442,000).

The Directors consider that the difference between the construction costs for the NFCA Network Assets and the consideration to be received from Copperbelt Energy amounting to US\$8,124,000 (2019: US\$2,747,000) is, in substance, premium for electricity supply that will be amortised over the estimated useful life of the NFCA Network Assets upon the commencement of electricity consumption by NFCA. During the year ended 31 December 2020, premium for electricity supply released to profit or loss is amounting to US\$670,000 (2019: nil). As at 31 December 2020, premium for electricity supply is amounting to US\$12,149,000 (2019: US\$7,442,000).

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

20. PREPAYMENTS AND OTHER RECEIVABLES (CONTINUED)

Notes: (Continued)

- c. The gross carrying amount of input VAT receivables is US\$136,506,000 (2019: US\$231,014,000). Impairment provision is estimated based on the present value of the estimated future cash flows, discounted using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the input VAT receivables for which the estimates of future cash flows have not been adjusted. An impairment provisions amounting to US\$15,899,000 (2019: US\$23,765,000) in aggregate have been made on input VAT receivables amounting to US\$78,960,000 (2019: US\$196,141,000) generated in Zambia and US\$57,546,000 (2019: US\$34,873,000) generated in DRC.

The movements in the allowance for input VAT receivables during the year are as follows:

	2020 US\$'000	2019 US\$'000
1 January	23,765	17,886
Impairment losses recognised	6,809	5,879
Impairment losses reversed	(14,675)	–
31 December	15,899	23,765

Included in the Group's prepayments and other receivables are balances with the following related parties:

	2020 US\$'000	2019 US\$'000
CNMC	–	41
Fellow subsidiaries	7,409	8,403
A non-controlling shareholder of a subsidiary	7,627	–
A subsidiary of a non-controlling shareholder of a subsidiary	–	4,888
	15,036	13,332

The above balances with related parties are unsecured, interest-free and are repayable on demand.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

21. RESTRICTED BANK BALANCES/BANK BALANCES AND CASH

a. Restricted bank balances

The Group's restricted bank balances are analysed as follows:

	2020 US\$'000	2019 US\$'000
Non-current restricted bank deposits for the banks' letters of guarantee to secure future restoration costs as required by the government of Zambia (<i>note 30</i>)	1,505	6,146
Current restricted bank deposits for:		
– Issuing letters of credit	2,289	1,297
	3,794	7,443

The restricted bank balances carry interest at rates ranging from 0.1% to 0.3% (2019: from 0.1% to 0.5%) per annum.

b. Bank balances and cash

Bank balances carry interest at market rates ranging from 0.1% to 0.3% (2019: 0.1% to 0.5%) per annum.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

22. TRADE PAYABLES/TRADE PAYABLES DESIGNATED AT FVTPL

	2020 US\$'000	2019 US\$'000
Trade payables	219,728	156,478
Trade payables designated at FVTPL	205,178	116,051

The following is an aged analysis of trade payables presented based on the invoice date:

	2020 US\$'000	2019 US\$'000
0 to 30 days	101,332	74,979
31 to 90 days	34,435	18,042
91 to 180 days	19,207	17,517
181 to 365 days	17,135	630
1-2 years	3,290	981
Over 2 years	44,329	44,329
	219,728	156,478

The following is an aged analysis of trade payables designated at FVTPL presented based on the invoice date:

	2020 US\$'000	2019 US\$'000
0 to 30 days	169,845	85,941
31 to 90 days	26,230	11,976
91 to 180 days	7,715	10,728
181 to 365 days	1,388	7,406
	205,178	116,051

The average credit period on purchases of certain goods is within 3 months and most payables are paid within the credit time frame.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

22. TRADE PAYABLES/TRADE PAYABLES DESIGNATED AT FVTPL (CONTINUED)

Included in the Group's trade payables/trade payables designated at FVTPL are balances with the following related parties:

	2020 <i>US\$'000</i>	2019 <i>US\$'000</i>
Trade payables:		
Fellow subsidiaries	81,468	55,595
CNMC	154	154
	81,622	55,749
Trade payables designated at FVTPL:		
Fellow subsidiaries	15,076	1,611

The above balances with related parties are unsecured, interest-free and are repayable within the three months.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

23. OTHER PAYABLES AND ACCRUED EXPENSES

	2020 US\$'000	2019 US\$'000
Payables for properties, plant and equipment	63,285	51,935
Dividend payable to non-controlling shareholders of subsidiaries	2,295	1,050
Dividend payable to the controlling shareholder of the Company	14,723	–
Other tax payables	10,955	8,954
Payroll payables	9,698	10,113
Accrued expenses	10,307	11,982
Provision for compensation (note)	3,154	–
	114,417	84,034

Note: On 18 December 2014, Hybrid Poultry (Z) Ltd. (the "HP(Z)") initiated a legal proceeding in the high court for Zambia against NFCA. HP(Z) averred the disturbance to its breeder farms, contamination of water supply and damage to its land etc. were resulted from NFCA's heavy mining operation. On 30 October 2020, a final award from the arbitral tribunal was delivered to NFCA, pursuant to which, NFCA had a legal obligation to HP(Z) for actual loss and projected losses amounting to US\$3,154,000 which was recognised in other expense and other payables. The provision was paid in February 2021.

Included in the Group's other payables and accrued expenses are balances with the following related parties:

	2020 US\$'000	2019 US\$'000
CNMC	16,154	1,358
Fellow subsidiaries	49,878	11,388
A non-controlling shareholder of a subsidiary	2,604	1,057
	68,636	13,803

The above balances with related parties are unsecured, interest-free and are repayable on demand.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

24. CONTRACT LIABILITIES

	2020 US\$'000	2019 US\$'000
Advance from customers	11,141	18,502

As at 1 January 2019, contract liabilities amounted to US\$7,547,000.

US\$18,502,000 (2019: US\$7,547,000) of the revenue recognised relates to carried-forward contract liabilities.

25. BANK AND OTHER BORROWINGS

	2020 US\$'000	2019 US\$'000
Bank loans, unsecured (<i>note a</i>)	929,480	1,043,693
Loan from a fellow subsidiary, unsecured (<i>note b</i>)	130,000	130,000
Loan from a non-controlling shareholder of a subsidiary, unsecured (<i>note c</i>)	–	20,000
Interest payable	1,962	2,085

1,061,442 1,195,778

The carrying amounts of the above borrowings are repayable*:

Within one year	597,442	301,298
More than one year but not exceeding two years	112,500	365,480
More than two years but not exceeding five years	240,000	372,500
More than five years	111,500	156,500

1,061,442 1,195,778

Less: Amounts due within one year shown under current liabilities **(597,442)** (301,298)

Amounts shown under non-current liabilities **464,000** 894,480

* The amounts due are based on scheduled repayment dates set out in the loan agreements.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

25. BANK AND OTHER BORROWINGS (CONTINUED)

Notes:

- a. As at 31 December 2020, the unsecured bank loans of US\$365,480,000 (2019: US\$475,480,000) are supported by corporate guarantees issued by CNMC in favour of the relevant banks, and the unsecured bank loans of US\$149,600,000 (2019: US\$139,600,000) are supported by corporate guarantees issued by a non-controlling shareholder of a subsidiary in favour of the relevant banks.

The unsecured bank loans as at 31 December 2020 bore interest at rates varied based on LIBOR ranging from 3.5% to 5.1% per annum (2019: from 3.8% to 5.7% per annum).

- b. The loan from a fellow subsidiary of US\$130,000,000 (2019: US\$130,000,000) bore interest at rates varied based on LIBOR ranging from 4.0% to 5.5% per annum (2019: from 5.6% to 5.8% per annum).
- c. The loan from a non-controlling shareholder of a subsidiary of US\$20,000,000 bore interest at fixed rate 6.0% per annum and was repaid in October 2020.

26. LEASE LIABILITIES

	2020 US\$'000	2019 US\$'000
Lease liabilities payable:		
Within one year	6,770	6,802
Within a period of more than one year but not more than two years	6,651	5,221
Within a period of more than two years but not more than five years	6,773	13,380
	20,194	25,403
Less: Amount due for settlement within 12 months shown under current liabilities	(6,770)	(6,802)
Amount due for settlement after 12 months shown under non-current liabilities	13,424	18,601

The weighted average incremental borrowing rate applied to lease liabilities is 4.33% (2019: 4.33%).

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

26. LEASE LIABILITIES (CONTINUED)

Included in the Group's lease liabilities are balances with the following related parties:

	2020 US\$'000	2019 <i>US\$'000</i>
A fellow subsidiary	20,194	25,403

27. FINANCIAL LIABILITIES DESIGNATED AT FVTPL

	2020 US\$'000	2019 <i>US\$'000</i>
Copper futures contracts	10,942	1,431

Details of the above futures contracts are analysed as follows:

	At 31 December	
	2020	2019
Number of contracts		
– Sell	959	395
Notional amount (in US\$'000)	175,093	59,621
Exercise price (in US\$)	6,170–7,769	6,154–6,175
Maturity date	13 January 2021	8 January 2020
	-10 March 2021	-31 March 2020

During the year, the Group entered into certain copper futures contracts to mitigate its risk associated with the prices of its blister copper and copper anodes and copper cathodes sold. Hedge accounting is not applied by the Group and a loss of US\$41,843,000 (2019: US\$1,652,000) arising on changes in fair value of derivatives was recognized in profit or loss (see note 8).

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

28. SHARE CAPITAL

	Number of shares		Share capital	
	2020 '000	2019 '000	2020 HK\$'000	2019 HK\$'000
Issued and fully paid:				
At beginning and end of the year				
ordinary shares with no par value	3,489,036	3,489,036	4,775,319	4,775,319
			US\$'000	US\$'000
Presented in the consolidated financial statements as			613,233	613,233

29. DEFERRED INCOME

	2020 US\$'000	2019 US\$'000
At beginning of year	16,566	15,528
Additions	1,437	1,379
Recognised in profit or loss during the year	(1,658)	(341)
At end of year	16,345	16,566

The above balances represented grants from Ministry of Finance of the PRC to subsidise the Group's capital expenditure and interest incurred in its copper mines development activities in Zambia which were capitalised under mining properties. These grants are recognised in profit or loss on a systematic and rational basis over the useful lives of the related assets.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

30. PROVISION FOR RESTORATION, REHABILITATION AND ENVIRONMENTAL COSTS

	2020 US\$'000	2019 US\$'000
Balance at beginning of year	23,131	18,010
Provisions revision	4,339	4,195
Unwinding of discount (note 9)	802	926
Balance at end of year	28,272	23,131

The Group's provision for restoration, rehabilitation and environmental costs is related to the Group's subsidiaries in Zambia which are involved in mining, leaching and smelting operations. The provision represents the accrued cost required to provide adequate restoration and rehabilitation measured by qualified professionals in Zambia, as discounted at rates ranging from 3.1% to 4.8% per annum (2019: 4.9% to 5.3% per annum), upon the completion of their operations. These amounts will be settled when rehabilitation is undertaken, generally at the end of a project life, which ranges from 4 to 36 years.

The Group is required, under the prevailing regulations, to make an annual contribution over a period of five years beginning from the year of prospecting, exploration or mining operations are commissioned, at 5% to 20% of the estimated restoration costs into an Environmental Protection Fund which is administrated by the Government of the Republic of Zambia, amounting to US\$2,378,000 (2019: US\$2,139,000) (note 20). The regulations also require that the balance of the estimated restoration costs be secured using letters of guarantee. Companies in Zambia of the Group have provided the relevant letters of guarantee as at 31 December 2020 amounting to US\$1,505,000 (2019: US\$6,146,000) (note 21(a)), except for SML and NFCA, which has not received a demand notice at the date of issuance of these consolidated financial statements.

The Directors opined that adequate provision has been made at the end of each reporting period.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

31. DEFERRED TAX ASSETS/LIABILITIES

For the purpose of presentation in the consolidated statement of financial position, certain deferred tax assets and liabilities have been offset. The following is the analysis of the deferred tax balances for financial reporting purposes:

	2020 US\$'000	2019 <i>US\$'000</i>
Deferred tax assets	20,588	18,735
Deferred tax liabilities	(63,233)	(44,775)
	(42,645)	(26,040)

The followings are the major deferred tax liabilities and assets recognised and movements thereon during the current and prior years:

	Property, plant and equipment <i>US\$'000</i>	Undistributed profits of subsidiaries <i>US\$'000</i>	Tax losses <i>US\$'000</i>	Total <i>US\$'000</i>
At 1 January 2019	(51,716)	(33,018)	81,964	(2,770)
Credit (charge) to profit or loss	989	(8,340)	(15,919)	(23,270)
At 31 December 2019	(50,727)	(41,358)	66,045	(26,040)
(Charge) credit to profit or loss	(20,133)	1,892	1,636	(16,605)
At 31 December 2020	(70,860)	(39,466)	67,681	(42,645)

As at 31 December 2020, the Group has unused tax losses of US\$225,603,000 (2019: US\$220,150,000) in respect of the subsidiaries in Zambia available for offset against future profits. Deferred tax assets have been recognised in respect of all the losses of these subsidiaries in Zambia. Subject to regulations in Zambia, the above tax losses of these subsidiaries are available to be carried forward up to a maximum of ten years from the year in which they are incurred for set off against future taxable profits from the same source of those subsidiaries.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

32. CAPITAL COMMITMENTS

	2020 US\$'000	2019 US\$'000
Capital expenditure in respect of the acquisition of property, plant and equipment contracted for but not provided in the consolidated financial statements	234,603	101,578

33. CAPITAL MANAGEMENT

The Group manages its capital to ensure that entities in the Group will be able to continue as a going concern while maximising the return to stakeholders through the optimisation of the debt and equity balance. The Group's overall strategy remains unchanged from prior year.

The capital structure of the Group consists of net debt, which includes bank and other borrowings disclosed in note 25, net of restricted bank balances, bank balances and cash and equity attributable to owners of the Company, comprising share capital and retained profits.

The Group is not subject to any externally imposed capital requirements.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

33. CAPITAL MANAGEMENT (CONTINUED)

Gearing ratio

The Group's management committee reviews the capital structure on a regular basis. As part of this review, the committee considers the cost of capital and the risks associated with each class of capital.

The gearing ratio of the Group at the end of the reporting period was as follows:

	Notes	2020 US\$'000	2019 US\$'000
Debts	(a)	1,061,442	1,195,778
Less: Restricted bank balances and bank balances and cash		(501,623)	(488,653)
Net debt		559,819	707,125
Equity	(b)	1,111,764	1,013,804
Net debt to equity ratio		50.4%	69.7%

Notes:

- (a) Debts comprise non-current and current bank and other borrowings as detailed in note 25.
- (b) Equity includes share capital and retained profits attributable to owners of the Company.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS

Categories of financial instruments

	2020 US\$'000	2019 US\$'000
Financial assets		
FVTPL		
Trade receivables at FVTPL	227,740	162,212
Financial assets at amortised cost	581,978	539,454
Financial liabilities		
FVTPL		
Trade payables designated at FVTPL	205,178	116,051
Financial liabilities designated at FVTPL	10,942	1,431
Amortised costs	1,374,934	1,417,223

Financial risk management objectives and policies

The Group's major financial instruments include trade receivables at amortised cost, trade receivables at FVTPL, other receivables, restricted bank balances, bank balances and cash, trade payables, trade payables designated at FVTPL, other payables, bank and other borrowings, and financial liabilities designated at FVTPL. Details of the financial instruments are disclosed in respective notes. The risks associated with these financial instruments include market risk (currency risk, interest rate risk and commodity price risk), credit risk and liquidity risk. The policies on how to mitigate these risks are set out below. The Directors manage and monitor these exposures to ensure appropriate measures are implemented on a timely and effective manner.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS (CONTINUED)

Financial risk management objectives and policies (Continued)

Market risk

(i) Currency risk

The Group's significant operations are in Zambia and DRC and most of its sales and purchases were denominated in US\$, the functional currency of the companies comprising the Group, while certain sales and purchases were mainly settled in currencies of ZMK, Congolese Franc ("CDF") and Renminbi ("RMB") other than the functional currency of these group entities that expose the Group to foreign currency risk.

The carrying amounts of the Group's ZMK, CDF and RMB denominated monetary assets (including financial assets and input VAT receivables) and liabilities (including financial liabilities and tax payables) which expose the Group to foreign currency risk are as follows:

	2020 US\$'000	2019 US\$'000
ZMK denominated monetary assets	80,698	199,481
ZMK denominated monetary liabilities	(39,571)	(32,324)
CDF denominated monetary assets	55,419	25,112
CDF denominated monetary liabilities	(87,325)	(52,165)
RMB denominated monetary assets	8,024	9,046
RMB denominated monetary liabilities	(5,460)	(1,724)

The Group currently does not have a foreign exchange hedging policy. However, the management of the Group monitors foreign exchange exposure and will consider hedging significant foreign exchange exposure should the need arise.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS (CONTINUED)

Financial risk management objectives and policies (Continued)

Market risk (Continued)

(i) Currency risk (Continued)

The sensitivity analysis below has been determined based on the exposure to exchange rates of ZMK, CDF and RMB against US\$. For a 5%, 10%, 15% weakening of ZMK, CDF and RMB against US\$ and all other variables being held constant, there would have no material impact on the Group's total equity apart from the retained profits and the effect on the Group's profit after tax are as follows:

	2020 US\$'000 (Decrease)/ Increase	2019 US\$'000 (Decrease)/ Increase
ZMK against US\$		
Weakening		
– 5%	(1,511)	(6,881)
– 10%	(3,021)	(13,763)
– 15%	(4,532)	(20,644)
CDF against US\$		
Weakening		
– 5%	1,117	947
– 10%	2,232	1,893
– 15%	3,349	2,840
RMB against US\$		
Weakening		
– 5%	(115)	(290)
– 10%	(229)	(580)
– 15%	(344)	(870)

For a 5%, 10%, 15% strengthening of ZMK, CDF and RMB against US\$, there would be an equal and opposite impact on the profit after tax.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS (CONTINUED)

Financial risk management objectives and policies (Continued)

Market risk (Continued)

(ii) Interest rate risk

Apart from the fixed rate loan from a fellow subsidiary and lease liabilities that expose the Group to fair value interest rate risk, the Group is also exposed to cash flow interest rate risk through the impact of rate changes on interest-bearing financial assets and liabilities, mainly interest-bearing restricted bank balances, and balances, and bank and other borrowings at variable interest rates. The Group currently does not have an interest rate hedging policy. However, the Directors will consider hedging significant interest rate risk should the need arise.

The sensitivity analysis below has been determined based on the exposure to variable rate bank and other borrowings at the end of each reporting period and assumed that the amount of liabilities outstanding at the end of each reporting period was outstanding for the whole year. The effect on restricted bank balances and bank balances, however, had been ignored as most of them bore interest at minimal rate at the end of each reporting period.

If interest rates on bank and other borrowings had been 100 basis points ("BPs") change and all other variables were held constant, there would have no material impact on the Group's total equity apart from retained profits and the potential effect on profit after tax is as follows:

	2020 US\$'000	2019 US\$'000
(Decrease) increase in profit for the year		
– as the result of increase in interest rate	(3,138)	(3,798)
– as the result of decrease in interest rate	3,138	3,798

(iii) Commodity price risk

The Group's commodity price risk is mainly the exposure to fluctuations in the prevailing market price of copper which are the major commodities purchased, produced and sold by the Group. To minimise this risk, the Group enters into copper futures contracts and provisional price arrangement to manage the Group's exposure in relation to forecasted sales of copper products, forecasted purchases of copper concentrates, inventories and firm commitments to sell the Group's copper products.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS (CONTINUED)

Financial risk management objectives and policies (Continued)

Market risk (Continued)

(iii) Commodity price risk (Continued)

Financial assets and liabilities of the Group whose fair value change in line with the fluctuations in the prevailing market price of copper mainly comprise copper futures contracts and provisional price arrangements. If all prices of copper futures had been increased by 10% and all other variables were held constant, there would have no material impact on the Group's total equity apart from retained profits and the potential effect on profit after tax is as follows:

	2020 US\$'000	2019 US\$'000
Increase in profit after tax for the year	12,582	11,519

There would be an equal and opposite impact on the profit after tax for the year where there had been 10% decrease in all prices of copper futures.

Credit risk and impairment assessment

Credit risk refers to the risk that the Group's counterparties default on their contractual obligations resulting in financial losses to the Group. The Group's credit risk exposures are primarily attributable to trade receivables at amortised cost, trade receivables at FVTPL, other receivables, finance lease receivables, deposits in futures margin accounts, restricted bank balances and bank balances. In order to minimise the credit risk, the Group's management continuously monitors the level of exposure to ensure that follow-up action is taken to recover overdue debts.

Except for trade receivables at FVTPL, the Group performed impairment assessment for financial assets and other items under ECL model individually. In this regard, the Directors consider that the Group's credit risk is significantly reduced.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS (CONTINUED)

Financial risk management objectives and policies (Continued)

Credit risk and impairment assessment (Continued)

Trade receivables at FVTPL

As at 31 December 2020, included in the Group's trade receivables at FVTPL balance were debtors with aggregate amount of US\$227,740,000 (2019: US\$162,212,000).

The Group has concentration of credit risk as 79% (2019: 75%) of the total trade receivables at FVTPL was due from the Group's two (2019: two) largest customer. The two largest customers accounted for 67% (2019: 66%) of the Group's sales of copper products and are large and reputable in the market. They have been trading with the Group with good settlement history.

Other than the above, the Group does not have significant concentration of credit risk.

Trade receivables at amortised cost

As at 31 December 2020, included in the Group's trade receivables at amortised cost balance were debtors with aggregate amount of US\$22,463,000 (2019: US\$12,020,000) and were assessed for impairment individually. Impairment allowance of US\$1,797,000 (2019: US\$524,000) were made on these debtors.

The Group has concentration of credit risk as 38% (2019: 72%) of the total trade receivables at amortised cost was due from the Group's three (2019: three) largest customer. The three largest customers accounted for 60% (2019: 45%) of the Group's sales of goods other than copper products and are large and reputable in the market. They have been trading with the Group with good settlement history.

Other than the above, the Group does not have significant concentration of credit risk.

For trade receivables at amortised cost, the Group has applied the simplified approach in HKFRS 9 to measure the loss allowance at lifetime. The Group determines the expected credit losses on these items individually.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS (CONTINUED)

Financial risk management objectives and policies (Continued)

Credit risk and impairment assessment (Continued)

Bank balances and restricted bank balances

Credit risk on bank balances and restricted bank balances is limited because the counterparty banks are with good reputation and external public credit ratings. Thus, the Directors considered that the probability of default is negligible for the bank balances and restricted bank balances of the Group and no expected credit loss was recognized as at 31 December 2020.

For all other financial assets including other receivables and deposits in futures margin account, the Group measures the loss allowance equal to 12-month ECL, unless when there has been a significant increase in credit risk since initial recognition, the Group recognises lifetime ECL. The Group has assessed and concluded that the risk of default rate for the aforementioned other financial assets are steady based on the Group's assessment of the financial health of the counterparties, except for receivable from a third party amounting to US\$12,787,000 as at 31 December 2020 (2019: US\$12,049,000), which was credit impaired and assessed individually, and impairment allowance of US\$12,451,000 (2019: nil) was recognised in the consolidated financial statements.

Movements in the loss allowance all of which are relating to trade receivables at amortised cost and other receivables is as follows:

	2020 US\$'000	2019 US\$'000
1 January	524	2,840
Impairment recognised	13,845	524
Impairment losses reversed	–	(2,840)
31 December	14,369	524

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS (CONTINUED)

Financial risk management objectives and policies (Continued)

Credit risk and impairment assessment (Continued)

The tables below detail the credit risk exposures of the Group's financial assets, which are subject to ECL assessment:

	Notes	12-month or lifetime ECL	Gross carrying amount	
			2020 US\$'000	2019 US\$'000
Financial assets at amortised cost				
Trade receivables at amortised cost	19	Lifetime ECL	20,666	11,496
		Credit impaired	1,797	524
			22,463	12,020
Other receivables	20	12-month ECL	15,815	7,985
		Credit impaired	12,572	–
			28,387	7,985
Deposits in futures margin accounts	20	12-month ECL	43,874	31,257
Bank balances	21	12-month ECL	497,829	481,210
Restricted bank balances	21	12-month ECL	3,794	7,443
Other item				
Finance lease receivables		12-month ECL	–	63

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS (CONTINUED)

Financial risk management objectives and policies (Continued)

Liquidity risk

The Directors have built an appropriate liquidity risk management framework for the management of the Group's short, medium and long-term funding and liquidity management requirements. The Group manages liquidity risk by maintaining banking facilities and by continuously monitoring forecast and actual cash flows and matching the maturity profiles of its financial assets and liabilities.

The following table details the Group's remaining contractual maturity for its financial liabilities. The table has been drawn up based on the undiscounted cash flows of financial liabilities based on the earliest date on which the Group can be required to pay. The maturity dates are based on the agreed repayment dates.

The table includes both interest and principal cash flows. The interest payments are computed using contractual rates or if variable, based on the prevailing market rate at the end of each reporting period. For derivatives settled on a net basis, the table has been drawn up based on undiscounted contractual net cash flows.

	Weighted average interest rate %	On demand or less than 6 months US\$'000	Over 6 months but not more than 1 year US\$'000	1 to 5 years US\$'000	More than 5 years US\$'000	Total undiscounted cash flows US\$'000	Carrying amounts US\$'000
31 December 2020							
Non-derivative financial liabilities							
Trade and other payables		313,492	-	-	-	313,492	313,492
Bank borrowings at variable rate	3.4	179,456	445,159	381,506	119,430	1,125,551	1,061,442
Lease liabilities	4.3	3,532	3,532	14,880	-	21,944	20,194
Trade payables designated at FVTPL		205,178	-	-	-	205,178	205,178
		701,658	448,691	396,386	119,430	1,666,165	1,600,307
Financial liabilities designated at FVTPL							
Copper futures contracts		10,942	-	-	-	10,942	10,942

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS (CONTINUED)

Financial risk management objectives and policies (Continued)

Liquidity risk (Continued)

	Weighted average interest rate %	On demand or less than 6 months US\$'000	Over 6 months but not more than 1 year US\$'000	1 to 5 years US\$'000	More than 5 years US\$'000	Total undiscounted cash flows US\$'000	Carrying amounts US\$'000
31 December 2019							
Non-derivative financial liabilities							
Trade and other payables		221,445	–	–	–	221,445	221,445
Other borrowings at fixed rate	6.0	600	600	21,230	–	22,430	20,000
Bank borrowings at variable rate	5.1	95,775	258,105	787,221	177,240	1,318,341	1,175,778
Lease liabilities	4.3	3,401	3,401	20,406	–	27,208	25,403
Trade payables designated at FVTPL		116,051	–	–	–	116,051	116,051
		437,272	262,106	828,857	177,240	1,705,475	1,558,677
Financial liabilities designated at FVTPL							
Copper futures contracts		1,431	–	–	–	1,431	1,431

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS (CONTINUED)

Fair value measurement of financial instruments

The following table provides an analysis of financial instruments that are measured subsequent to initial recognition at fair value, grouped into Levels 1 to 3 based on the degree to which the fair value is observable:

	Level 1 US\$'000	Level 2 US\$'000	Level 3 US\$'000	Total US\$'000
31 December 2020				
Financial liabilities designated at FVTPL				
– Copper future contracts (<i>note a</i>)	–	(10,942)	–	(10,942)
Trade receivables at FVTPL (<i>note b</i>)	–	227,740	–	227,740
Trade payables designated at FVTPL (<i>note b</i>)	–	(205,178)	–	(205,178)
31 December 2019				
Financial liabilities designated at FVTPL				
– Copper future contracts (<i>note a</i>)	–	(1,431)	–	(1,431)
Trade receivables at FVTPL (<i>note b</i>)	–	162,212	–	162,212
Trade payables designated at FVTPL (<i>note b</i>)	–	(116,051)	–	(116,051)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

34. FINANCIAL INSTRUMENTS (CONTINUED)

Fair value measurement of financial instruments (Continued)

Notes:

- a. Calculated based on the initial transaction prices and quoted prices in an active market.
- b. Calculated based on the quoted prices in an active market and the estimated grades of copper, gold and silver in Group's copper products.

There were no transfers between Level 1 and 2 in the year.

Except as detailed above, the Directors consider that the carrying amounts of financial assets and financial liabilities recorded at amortised cost recognised in the consolidated financial statements approximate their fair values.

35. RECONCILIATION OF LIABILITIES ARISING FROM FINANCING ACTIVITIES

The table below details changes in the Group's liabilities arising from financing activities, including both cash and non-cash changes. Liabilities arising from financing activities are those for which cash flows were for future cash flows will be, classified in the Group's consolidated statement of cash flows as cash flows from financing activities.

	Bank and other borrowings	Dividends payable	Lease liabilities	Total
	<i>US\$'000</i>	<i>US\$'000</i>	<i>US\$'000</i>	<i>US\$'000</i>
At 1 January 2019	1,062,481	–	8,041	1,070,522
Financing cash flows	71,350	(42,602)	–	28,748
Interest expenses	61,947	–	–	61,947
Dividends declared	–	43,652	–	43,652
Lease modified	–	–	17,362	17,362
At 31 December 2019	1,195,778	1,050	25,403	1,222,231
At 1 January 2020	1,195,778	1,050	25,403	1,222,231
Financing cash flows	(185,688)	(58,106)	(6,147)	(249,941)
Interest expenses	51,352	–	938	52,290
Dividends declared	–	74,074	–	74,074
At 31 December 2020	1,061,442	17,018	20,194	1,098,654

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

36. RELATED PARTY TRANSACTIONS

The Company is controlled by CNMC through China Nonferrous Mining Development Limited, which is a subsidiary of CNMC. The Directors consider the ultimate holding company is CNMC, a stated-owned company established in the People's Republic of China (the "PRC"), of which the Company is a subsidiary. For the purposes of the related party transaction disclosures, the Directors believe that meaningful information in respect of related party transactions has been adequately disclosed.

Other than as disclosed elsewhere in these consolidated financial statements, the Group has following transactions with related parties:

(1) Transactions with CNMC and its subsidiaries

Relationships	Notes	Nature of transactions	2020 US\$'000	2019 US\$'000
Fellow subsidiaries	(i) (iii)	Sales of blister copper and copper anodes	792,697	554,675
	(i) (iii)	Sales of copper cathodes	439,861	361,286
	(i)	Sales of sulfuric acid	43,768	33,879
	(i)	Sales of other materials	3,395	1,368
	(i)	Services income	33	43
	(i) (ii)	Finance income earned under finance leases	3	15
	(i)	Purchases of plant and equipment	(73,322)	(151,014)
	(i) (iv)	Purchases of copper concentrate	(19,369)	(155,404)
	(i)	Purchases of materials	(52,056)	(65,902)
	(i)	Purchases of electricity	(29,194)	(31,571)
	(i)	Purchases of services	(59,955)	(72,851)
	(i)	Interest expenses on borrowings	(7,832)	(5,815)
	(i)	Interest expenses on lease liabilities	(938)	(104)
	(i)	Expenses relating to leases	(4,965)	(5,543)
Ultimate holding company	(i)	Expenses relating to short-term leases	(371)	(125)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

36. RELATED PARTY TRANSACTIONS (CONTINUED)

(1) Transactions with CNMC and its subsidiaries (Continued)

Notes:

- (i) These transactions were conducted in accordance with terms of the relevant agreements.
- (ii) The finance income earned under finance leases arose from the finance leases to fellow subsidiaries.
- (iii) Included in the sales amount of blister copper and copper anodes, gains arising from provisional pricing arrangement are US\$16,218,000 (2019: US\$5,870,000).

Included in the sales amount of copper cathodes, gains arising from provisional pricing arrangement are US\$14,036,000 (2019: US\$314,000).
- (iv) Included in the purchase amount of copper concentrate, losses arising from provisional pricing arrangement is US\$1,868,000 (2019: US\$8,306,000(gain)).

In addition to the above, the Group also had the following transactions with CNMC and its subsidiaries:

- CNMC provided guarantees to banks, at nil consideration, for granting unsecured loans to the Group. Further details are set out in note 25.
- On 1 July 2009, a subsidiary of the Company, CCS, entered into an agreement with Fifteen MCC Africa Construction & Trade Ltd. ("Fifteen MCC Africa"), a fellow subsidiary, (the "Fifteen MCC Africa Agreement") pursuant to which that subsidiary agreed to provide certain living quarters to Fifteen MCC Africa on a free of charge basis. Fifteen MCC Africa shall pay for the use of water and electricity and other expenses such as repair and any applicable tax in Zambia. The Fifteen MCC Africa Agreement shall remain for as long as CCS is in existence. As Fifteen MCC Africa provides construction as well as equipment repair and maintenance services to CCS on an ongoing basis, it requires accommodation for its staff based in Zambia.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

36. RELATED PARTY TRANSACTIONS (CONTINUED)

(2) Transactions with other state-owned enterprises

Relationships	Notes	Nature of transactions	2020 US\$'000	2019 US\$'000
Subsidiaries of a non-controlling shareholder of subsidiaries	(i) (ii)	Sales of blister copper and copper anodes	554,215	412,194
	(i)	Interest expense on borrowings	(987)	–

Notes:

- (i) These transactions were conducted in accordance with terms of the relevant agreements.
- (ii) Included in the sales amount of blister copper and copper anodes, gain arising from provisional pricing arrangement are US\$27,542,000 (2019: US\$3,656,000 (losses)).

In addition to the above, the Group has entered into various transactions, amongst others, including deposit placements, borrowings and other bank facilities, with certain banks and financial institutions which are state-owned entities in its ordinary course of business. In view of the nature of these transactions, the Directors are of the opinion that separate disclosures would not be meaningful.

(3) Transactions with subsidiaries of a non-controlling shareholder of subsidiaries

Relationships	Notes	Nature of transactions	2020 US\$'000	2019 US\$'000
Subsidiaries of a non-controlling shareholder of subsidiaries	(i) (ii)	Sale of copper anode	33,260	–
	(i)	Purchases of materials	(69,381)	(32,112)
	(i)	Interest expense on borrowings	–	(1,190)

Notes:

- (i) These transactions were conducted in accordance with terms of the relevant agreements.
- (ii) Included in the sales amount of copper cathodes, gain arising from provisional pricing arrangement are US\$1,002,000 (2019: Nil).

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

36. RELATED PARTY TRANSACTIONS (CONTINUED)

(4) Compensation of key management personnel

The remuneration of directors and other members of key management during the year was as follows:

	2020 US\$'000	2019 US\$'000
Short-term benefits	1,153	1,077
Post-employment benefits	38	62
	1,191	1,139

The remuneration of directors and key executives is determined by the remuneration committee having regard to the performance of individuals and market trends.

37. RETIREMENT BENEFIT SCHEMES

The local employees of the Group's subsidiaries in Zambia and DRC are members of the state-managed retirement benefits scheme operated by the Zambia government and DRC government, respectively. The subsidiaries are required to contribute a certain percentage of their payroll to the retirement benefits scheme to fund the benefits. Besides, certain employees of the Group are also members of the state-managed retirement benefits scheme operated by the PRC government. The Group also contributes a certain percentage of their payroll to the retirement benefits scheme to fund the benefits.

The only obligation of the Group with respect to the aforesaid retirement benefits schemes is to make the required contributions under the schemes.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

38. PARTICULARS OF SUBSIDIARIES OF THE COMPANY

Details of the subsidiaries directly and indirectly held by the Company at the end of the reporting period are set out below.

Name of company	Place/Country of operations of incorporation	Issued and fully paid-up ordinary share capital	Equity interest attributable to the Company as at 31 December		Principal activities
			2020 %	2019 %	
CNMH <i>(Note (a))</i>	Ireland	Euro171,152,002	100	100	Investment holding
CNMHK <i>(Note (a))</i>	Hong Kong	HK\$10,000	70	70	Investment holding
CNMHKI <i>(Note (a))</i>	Hong Kong	US\$20,000	100	100	Investment holding
NFCA	Zambia	US\$9,000,001	85	85	Exploration and mining of copper and production of copper concentrates
CCS	Zambia	US\$2,000	60	60	Production and sale of blister copper and copper anodes, copper-cobalt alloy and sulfuric acid
SML	Zambia	US\$1,000	67.75	67.75	Production and sale of copper cathodes
Luanshya	Zambia	US\$10,000,001	80	80	Exploration and mining of copper and production of copper concentrates and copper cathodes
Huachin Metal Leach SA <i>(Note (c))</i>	DRC	US\$10,000,000	43.75	43.75	Production and sale of copper cathodes
CNMC Huachin Mabende Mining SA ("CHM") <i>(Note (c),(d))</i>	DRC	US\$10,000,000	42	42	Production and sale of copper cathodes
Green Home Farm Limited	Zambia	ZMK5,000,000	85	85	Farming
CCS Chinda Trade & Investment SARL	DRC	US\$2,000	60	60	Sale of sulfuric acid
Sylver Back Resources SARL ("SBR") <i>(Note (b))</i>	DRC	CDF717,005,314	39.9	39.9	Exploration and mining of copper
Lualaba Copper Smelter SAS ("LCS") <i>(Note (e))</i>	DRC	US\$2,000	57	57	Production and sale of blister copper and sulfuric acid
Kambove Mining SAS ("KM") <i>(Note (e))</i>	DRC	CDF14,000	55	55	Exploration and mining of copper and production of copper concentrates
Kingsail Limited ("KL") <i>(Note (e))</i>	Hong Kong	HK\$10,000	60	60	Sale of copper cathodes and copper concentrates
CNMC Congo Luano Mining SASU ("LUANO") <i>(Note (c))</i>	DRC	US\$10,000	100	100	Production and sale of copper cathodes

Notes:

- The ordinary share capital of these companies is directly held by the Company.
- CHM acquired SBR on 20 November 2015 and 95% of the issued and paid-up ordinary share capital of SBR is directly held and controlled by CHM.
- 62.5%, 60% and 100% of the issued and paid-up ordinary share capital of Huachin Metal Leach SA, CHM and LUANO, respectively, are directly held and controlled by CNMHK.
- On 5 December 2019, CHM converted US\$1,000,000 from retained earnings to paid-in capital based on the proportion of shareholders' contribution, and to make paid-in capital consistent with registered capital.
- 57%, 55% and 60% of the issued and paid-up ordinary share capital of LCS, KM and KL, respectively, are directly held and controlled by CNMHKI.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

38. PARTICULARS OF SUBSIDIARIES OF THE COMPANY (CONTINUED)

Details of non-wholly owned subsidiaries that have material non-controlling interests

The table below shows details of non-wholly-owned subsidiaries of the Group that have material non-controlling interests:

Name of company	Place/ Country of operations and Principal place of activities	Proportion of ownership interests and voting rights held interests by non-controlling interests		Profit allocated to non-controlling interests		Accumulated non-controlling interests	
		2020	2019	2020	2019	2020	2019
		%	%	US\$'000	US\$'000	US\$'000	US\$'000
CCS	Zambia	40	40	29,953	46,307	254,030	257,761
CHM	DRC	58	58	10,521	19,656	82,012	81,293
Subsidiaries with individually immaterial non-controlling interests						211,136	183,218
						547,178	522,272

Summarised financial information in respect of each of the Group's subsidiaries that has material non-controlling interests is set out below. The summarised financial information below represents amounts before intragroup eliminations.

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

38. PARTICULARS OF SUBSIDIARIES OF THE COMPANY (CONTINUED)

CCS	2020 US\$'000	2019 US\$'000
Current assets	728,620	733,339
Non-current assets	193,099	192,649
Current liabilities	(200,747)	(136,532)
Non-current liabilities	(97,036)	(145,052)
Equity attributable to owners of the Company	369,906	386,643
Non-controlling interests	254,030	257,761
Revenue	1,107,998	1,378,640
Expenses	(1,033,115)	(1,262,873)
Profit and total comprehensive income for the year	74,883	115,767
Profit and total comprehensive income attributable to owners of the Company	44,930	69,460
Profit and total comprehensive income attributable to the non-controlling interests	29,953	46,307
Dividends paid to the non-controlling interests	33,684	–
Net cash inflow from operating activities	103,914	140,832
Net cash outflow from investing activities	(7,286)	(14,257)
Net cash outflow from financing activities	(141,903)	(9,583)
Effect of foreign exchange rate changes	72	(82)
Net cash (outflow) inflow	(45,203)	116,910

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

38. PARTICULARS OF SUBSIDIARIES OF THE COMPANY (CONTINUED)

CHM	2020 US\$'000	2019 US\$'000
Current assets	169,770	137,140
Non-current assets	67,926	78,974
Current liabilities	(92,358)	(70,005)
Non-current liabilities	(4,375)	(5,949)
Equity attributable to owners of the Company	58,951	58,867
Non-controlling interests	82,012	81,293
Revenue	212,818	169,361
Expenses	(194,679)	(135,471)
Profit and total comprehensive income for the year	18,139	33,890
Profit and total comprehensive income attributable to owners of the Company	7,618	14,234
Profit and total comprehensive income attributable to the non-controlling interests	10,521	19,656
Dividends paid to the non-controlling interests	9,802	12,180
Net cash inflow from operating activities	71,659	38,400
Net cash inflow (outflow) from investing activities	22,724	(26,005)
Net cash outflow from financing activities	(16,055)	(19,950)
Effect of foreign exchange rate changes	(159)	(54)
Net cash inflow (outflow)	78,169	(7,609)

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

39. STATEMENT OF FINANCIAL POSITION AND RESERVES OF THE COMPANY

	2020 US\$'000	2019 US\$'000
ASSETS		
Non-current Assets		
Equipment	56	42
Investment in subsidiaries	307,665	272,085
Receivable from a subsidiary	101,979	98,057
Loans to subsidiaries	385,510	270,713
	795,210	640,897
Current Assets		
Other receivables	18,515	2,155
Amounts due from subsidiaries	–	978
Bank balances and cash	10,282	169,636
	28,797	172,769
Total Assets	824,007	813,666
EQUITY AND LIABILITIES		
Capital and Reserves		
Share capital	613,233	613,233
Retained profits	59,329	67,213
Total Equity	672,562	680,446

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

39. STATEMENT OF FINANCIAL POSITION AND RESERVES OF THE COMPANY (CONTINUED)

	2020 US\$'000	2019 US\$'000
Non-current Liabilities		
Amount due to a subsidiary	132,000	–
Current Liabilities		
Accrued expenses	2,350	1,768
Dividends payable	14,723	–
Amount due to a subsidiary	–	72,000
Bank and other borrowings		
– due within one year	2,372	59,452
	19,445	133,220
Total Liabilities	151,445	133,220
Total Equity and Liabilities	824,007	813,666

The Company's statement of financial position was approved and authorised for issue by the board of directors on 30 March 2021 and is signed on its behalf by:

Jinjun Zhang
DIRECTOR

Xiaowei Wang
DIRECTOR

NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS (CONTINUED)

FOR THE YEAR ENDED 31 DECEMBER 2020

39. STATEMENT OF FINANCIAL POSITION AND RESERVES OF THE COMPANY (CONTINUED)

Movements in reserve of the Company

	Retained profits US\$'000
At 31 December 2018	70,691
Profit and total comprehensive income for the year	25,774
Dividend	(29,252)
At 31 December 2019	67,213
Profit and total comprehensive income for the year	19,121
Dividend	(27,005)
At 31 December 2020	59,329

FIVE YEAR FINANCIAL SUMMARY

A summary of selected items of the results and of the assets, liabilities and non-controlling interests of the Group for the last five financial years, as extracted from the published audited financial statements and the Prospectus, is set out below.

RESULTS

	2020 US\$'000	Year ended 31 December			
		2019 <i>US\$'000</i>	2018 <i>US\$'000</i>	2017 <i>US\$'000</i>	2016 <i>US\$'000</i>
Revenue	2,597,213	2,008,719	2,053,320	1,838,731	1,313,291
Gross profit	629,442	468,473	500,532	431,948	199,913
Profit before tax	309,855	324,035	323,861	319,227	69,097
Net profit	196,940	224,514	243,978	233,859	45,447
Profit attributable to owners of the Company	124,965	134,874	146,260	142,428	11,832

ASSETS, LIABILITIES, NON-CONTROLLING INTERESTS AND EQUITY ATTRIBUTABLE TO OWNERS OF THE COMPANY

	2020 US\$'000	At 31 December			
		2019 <i>US\$'000</i>	2018 <i>US\$'000</i>	2017 <i>US\$'000</i>	2016 <i>US\$'000</i>
Non-current assets	1,927,680	1,911,091	1,435,165	1,102,193	998,240
Current assets	1,605,679	1,404,440	1,397,840	1,701,004	1,431,501
Total assets	3,533,359	3,315,531	2,833,005	2,803,197	2,429,741
Current liabilities	1,289,143	781,902	922,332	860,445	403,428
Net current assets	316,536	622,538	475,508	840,559	1,028,073
Non-current liabilities	585,274	997,553	614,118	902,668	1,182,667
Equity attributable to owners of the Company	1,111,764	1,013,804	908,182	787,075	644,647
Non-controlling interests	547,178	522,272	388,373	253,009	198,999

DEFINITIONS

In this annual report, unless the context otherwise requires, the following words and expressions shall have the following meanings.

“AGM”	the annual general meeting of the Company
“Articles of Association” or “Articles”	the articles of association of the Company that were adopted on 27 April 2012
“associate(s)”	has the meaning ascribed thereto under the Listing Rules
“Audit Committee”	the audit committee of the Board
“Board of Directors” or “Board”	the board of directors of the Company
“BVI”	the British Virgin Islands
“CCS”	Chambishi Copper Smelter Limited (謙比希銅冶煉有限公司*), a company incorporated in Zambia on 19 July 2006 and a subsidiary of the Company
“CG Code” or “Corporate Governance Code”	code provisions set out in the Corporate Governance Code and Corporate Governance Report contained in Appendix 14 of the Listing Rules
“Chambishi Leach Plant”	the copper leaching plant located in the Copperbelt province in Zambia held by SML and where SML undertakes its leaching operations
“China” or “PRC”	the People’s Republic of China. For the purpose of this report and for geographical reference only and except where the context requires, references to “China” and the “PRC” do not include Taiwan, the Macau Special Administrative Region and Hong Kong Special Administrative Region
“CNMC”	China Nonferrous Metal Mining (Group) Co., Ltd* (中國有色礦業集團有限公司), a state-owned enterprise incorporated under the laws of the PRC in 1997 with operating history dating back to 1983, directly administered by SASAC, and the ultimate controlling shareholder of the Company
“CNMC Guarantee Fees Framework Agreement”	the framework agreement dated 18 November 2014 entered into between the Company and CNMC in relation to the reimbursement of guarantee fees paid by CNMC to third party financial institutions

DEFINITIONS (CONTINUED)

"CNMC Huachin Mabende"	CNMC Huachin Mabende Mining SA (中色華鑫馬本德礦業股份有限公司*) (formerly known as "CNMC Mabende SPRL" (中色馬本德礦業有限公司*), a joint venture established in the DRC on 9 November 2012 by SML and Huachin SPRL, an associate of the Group
"CNMD"	China Nonferrous Mining Development Limited (中色礦業發展有限公司*), an investment holding company incorporated under the laws of the BVI on 12 July 2011, a wholly-owned subsidiary of CNMC and the controlling shareholder of the Company
"CNMH"	China Nonferrous Mining Holdings Limited (中色礦業控股有限公司*), an investment holding company incorporated under the laws of the Republic of Ireland on 23 September 2011 and a wholly-owned subsidiary of the Company
"CNMHK"	China Nonferrous Mining Hong Kong Holdings Limited (中色礦業香港控股有限公司), an investment holding company incorporated in Hong Kong on 6 October 2015 with limited liability under the Companies Ordinance, a directly controlling subsidiary of the Company
"CNMHKI"	China Nonferrous Mining Hong Kong Investment Limited (中色礦業香港投資有限公司), an investment holding company incorporated in Hong Kong on 2 December 2016 with limited liability under the Companies Ordinance, a directly controlling subsidiary of the Company
"Companies Ordinance"	the Companies Ordinance of Hong Kong (Chapter 622 of the laws of Hong Kong), as amended, supplemented or otherwise modified from time to time
"Company", "we", "us" or "our"	China Nonferrous Mining Corporation Limited (中國有色礦業有限公司), a company incorporated in Hong Kong on 18 July 2011 with limited liability under the Companies Ordinance and, except where the context otherwise requires, all of its subsidiaries or where the context refers to any time prior to its incorporation, the business which its predecessors or the predecessors of its present subsidiaries were engaged in and which were subsequently assumed by it
"Compliance Committee"	the compliance committee of the Board
"connected person(s)"	has the meaning ascribed thereto in the Listing Rules
"connected transaction(s)"	has the meaning ascribed thereto in the Listing Rules

DEFINITIONS (CONTINUED)

“controlling shareholder”	has the meaning ascribed thereto under the Listing Rules
“COVID-19 pandemic”	Corona Virus Disease 2019
“Deed of Non-Competition Undertaking”	a deed of non-competition undertaking dated 14 May 2012 entered into between CNMC and the Company under which CNMC has given us certain undertakings in respect of the conduct of certain of its activities outside the PRC
“Director(s)”	director(s) of the Company
“DRC”	the Democratic Republic of the Congo
“Fifteen MCC Africa”	Fifteen MCC Africa Construction & Trade Ltd (中國十五冶非洲建築貿易公司*), a company incorporated under the laws of Zambia on 24 May 2007 and a fellow subsidiary of CNMC
“Global Offering”	the offering of the Shares of the Company for subscription by the public in Hong Kong and purchase by institutional and professional investors as described in the Prospectus
“Group”, “we” or “us”	the Company and its subsidiaries or any of them, or where the context so requires, in respect of the period before the Company became the holding company of its present subsidiaries, the present subsidiaries of the Company
“HK\$” or “Hong Kong dollar(s)”	Hong Kong dollars, the lawful currency for the time being of Hong Kong
“HKFRS”	Hong Kong Financial Reporting Standard, as issued by the Hong Kong Institute of Certified Public Accountants
“Hong Kong” or “HK”	the Hong Kong Special Administrative Region of the People’s Republic of China
“Hong Kong Stock Exchange”	The Stock Exchange of Hong Kong Limited
“Hong Kong Zhongfei”	Hong Kong Zhongfei Mining Investment Limited (香港中非礦業投資有限公司), a company incorporated under the Companies Ordinance in Hong Kong in January 2014 holding 30% of SML and 30% of CNMHK
“Huachin”	Huachin International Trading Limited (國際華鑫貿易有限公司), a company incorporated in Hong Kong with limited liability

DEFINITIONS (CONTINUED)

“Huachin Leach”	Huachin Metal Leach SA (中色華鑫濕法冶煉股份有限公司*), a company incorporated under the laws of the DRC on 17 December 2010 and a subsidiary of SML
“Independent Shareholders”	Shareholders other than CNMD and its associates
“JORC”	the Australasian Joint Ore Reserves Committee
“JORC Code”	the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves
“Kambove Mining”	Kambove Mining SAS (剛波夫礦業簡易股份有限公司*), a company established in DRC and a subsidiary of the Company
“Kingsail”	Kingsail Limited (香港鑫晟有限公司), a company incorporated in Hong Kong on 9 October 2018 with limited liability under the Companies Ordinance, a subsidiary of the Company
“LIBOR”	London Interbank Offer Rate
“Listing”	the listing of the Shares on the Main Board of the Hong Kong Stock Exchange on 29 June 2012
“Listing Rules”	The Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited, as amended from time to time
“Lualaba Copper Smelter”	Lualaba Copper Smelter SAS (盧阿拉巴銅冶煉股份有限公司*), a company established in DRC and a subsidiary of the Company
“Luanshya”	CNMC Luanshya Copper Mines PLC (中色盧安夏銅業有限公司*), formerly Luanshya Copper Mines PLC, a company incorporated in Zambia on 10 July 2003 and a subsidiary of the Company
“Mabende Mining”	Mabende Mining SARL (馬本德礦業有限責任公司*) (formerly known as Mabende Mining SPRL (馬本德礦業有限公司*)), a company incorporated under the laws of the DRC
“Mabende Project”	the project undertaken by CNMHK through CNMC Huachin Mabende to construct and operate a leaching plant in the DRC
“Main Board”	the Main Board of the Hong Kong Stock Exchange

DEFINITIONS (CONTINUED)

“Model Code”	the Model Code for Securities Transactions by Directors of Listed Issuers set out in Appendix 10 of the Listing Rules
“Muliashi Project”	an integrated project involving the mining and leaching of copper oxide ores undertaken by Luanshya, including the Muliashi North Mine, the Muliashi Leach Plant and the planned Baluba East Mine
“NFCA”	NFC Africa Mining PLC (中色非洲礦業有限公司*), a company incorporated in Zambia on 5 March 1998, and a subsidiary of the Company
“Nomination Committee”	the nomination committee of the Board
“Non-Competition Undertaking”	the non-competition undertaking set out in the Deed of Non-Competition Undertaking
“Octagon Commodities”	Octagon Commodities SA, a Société Anonyme (equivalent to a public company limited by shares) incorporated in Swiss Confederation
“PRC government” or “State”	the government of the PRC, including all governmental subdivisions (including provincial, municipal and other regional or local government entities)
“Properties Leasing Framework Agreement”	the properties leasing framework agreement dated 18 November 2014 entered into between the Company and CNMC
“Prospectus”	the prospectus dated 20 June 2012 issued by the Company in connection with the Global Offering and the Listing
“Remuneration Committee”	the remuneration committee of the Board
“Renminbi” or “RMB”	Renminbi yuan, the lawful currency for the time being of the PRC
“Retained Group”	CNMC and its subsidiaries (excluding the Group)
“SFO”	the Securities and Futures Ordinance of Hong Kong (Chapter 571 of the Laws of Hong Kong), as amended, supplemented or otherwise modified from time to time
“Share(s)”	ordinary share(s) in the share capital of the Company
“Shareholder(s)”	holder(s) of the Shares of the Company

DEFINITIONS (CONTINUED)

“SML”	Sino-Metals Leach Zambia Limited (贊比亞謙比希濕法冶煉有限公司*), a company incorporated under the laws of Zambia on 3 December 2004 and a subsidiary of the Company
“subsidiary” or “subsidiaries”	has the meaning ascribed thereto in section 2 of the Companies Ordinance
“substantial shareholder”	has the meaning ascribed thereto in the Listing Rules
“United States”	the United States of America, its territories, its possessions and all areas subject to its jurisdiction
“US ¢ ” or “US cent(s)”	United States cents, the lawful currency for the time being of the United States
“US\$”, “USD” or “US dollar(s)”	United States dollars, the lawful currency for the time being of the United States
“VAT”	value-added tax; all amounts are exclusive of VAT in this report except indicated otherwise
“Year”	year ended 31 December 2019
“YH Metal”	Yunnan & Hongkong Metal Company Limited (雲港金屬有限公司), a company established in Hong Kong with limited liability and a wholly-owned subsidiary of Yunnan Copper Group
“Yunnan Copper”	Yunnan Copper Industry Co., Ltd* (雲南銅業股份有限公司), a company incorporated under the laws of the PRC on 15 May 1998 and a subsidiary of Yunnan Copper Group
“Yunnan Copper Group”	Yunnan Copper Industry (Group) Co., Ltd.* (雲南銅業(集團)有限公司), a company incorporated under the laws of the PRC in April 1996 holding 40% of the issued share capital of CCS
“Zambia”	the Republic of Zambia
“ZCCM”	Zambia Consolidated Copper Mines Limited, a company incorporated in Zambia in 1982 and succeeded by ZCCM-IH
“ZCCM-IH”	Zambia Consolidated Copper Mines Investments Holdings Plc, the successor company to ZCCM, majority owned by the Government of Zambia
“ZMK”	Zambian Kwacha, the lawful currency for the time being of Zambia

* Translation of English or Chinese terms for reference purposes only.



中國有色礦業有限公司

China Nonferrous Mining Corporation Limited