INTERIM CONSOLIDATED FINANCIAL STATEMENTS OF SAMSUNG ELECTRONICS CO., LTD. AND ITS SUBSIDIARIES INDEX TO FINANCIAL STATEMENTS

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Independent Auditors' Review Report

[English Translation of Independent Auditors' Report Originally Issued in Korean on May 14, 2020]

To the Shareholders and the Board of Directors of Samsung Electronics Co., Ltd.:

Reviewed Financial Statements

We have reviewed the accompanying interim consolidated financial statements of Samsung Electronics Co., Ltd. and its subsidiaries (collectively referred to as the "Company"). The interim consolidated financial statements consist of the consolidated statement of financial position as of March 31, 2020, and the related consolidated statements of profit or loss, comprehensive income, changes in equity and cash flows for the three-month period ended March 31, 2020 all expressed in Korean won, and a summary of significant accounting policies and other explanatory information.

Management's Responsibility for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of these interim consolidated financial statements in accordance with Korean International Financial Reporting Standards ("K-IFRS") No. 1034 *Interim Financial Reporting*, and for such internal control as management determines is necessary to enable the preparation of interim consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express a conclusion on this interim financial information based on our review.

We conducted our review in accordance with the Review Standards for Quarterly and Semi-annual Financial Statements established by the Securities and Futures Commission of the Republic of Korea. A review of interim financial statements consists of making inquiries, primarily of persons responsible for financial and accounting matters, and applying analytical and other review procedures. A review is substantially less in scope than an audit conducted in accordance with Korean Standards on Auditing and consequently does not enable us to obtain assurance that we would become aware of all significant matters that might be identified in an audit. Accordingly, we do not express an audit opinion.

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Conclusion

Based on our review, nothing has come to our attention that causes us to believe that the accompanying interim consolidated financial statements referred to above are not prepared fairly, in all material respects, in accordance with K-IFRS No.1034 *Interim Financial Reporting*.

Other Matters

The accompanying interim consolidated statements of profit or loss, comprehensive income, changes in equity and cash flows for the three-month period ended March 31, 2019 for comparative purpose, were reviewed by other auditors, whose report thereon dated May 14, 2019, expressed that nothing came to their attention that caused them to believe that those interim consolidated financial statements as of March 31, 2019 were not prepared fairly, in all material respects, in accordance with K-IFRS No.1034 *Interim Financial Reporting*.

The consolidated statement of financial position as of December 31, 2019, and the related consolidated statements of profit or loss, comprehensive income, changes in equity and cash flows for the year then ended, which are not accompanying this report, were audited by other auditors, whose report thereon dated February 21, 2020, expressed an unqualified opinion. The accompanying statement of financial position as of December 31, 2019, presented for comparative purposes, is not different from that audited by other auditors in all material respects.

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Seoul, Korea

May 14, 2020

Notice to Readers

This report is effective as of May 14, 2020, the auditors' report date. Certain subsequent events or circumstances may have occurred between the auditors' report date and the time the auditors' report is read. Such events or circumstances could significantly affect the financial statements and may result in modifications to the auditors' report.

INTERIM CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

(In millions of Korean won, in thousands of US dollars (Note 2.3))

		March 31,	December 31,	March 31,	December 31,
	Notes	2020	2019	2020	2019
		KRW	KRW	USD	USD
Assets					
Current assets					
Cash and cash equivalents	3, 25	27,916,683	26,885,999	23,417,661	22,553,081
Short-term financial instruments	3, 25	78,638,015	76,252,052	65,964,800	63,963,356
Short-term financial assets at amortized cost	3, 25	3,037,379	3,914,216	2,547,878	3,283,405
Short-term financial assets at fair value through profit or loss	3, 4, 25	1,238,759	1,727,436	1,039,122	1,449,044
Trade receivables	3, 25	36,388,583	35,131,343	30,524,240	29,469,615
Non-trade receivables	3, 25	3,495,056	4,179,120	2,931,797	3,505,618
Advance payments		1,465,731	1,426,833	1,229,515	1,196,886
Prepaid expenses		2,961,759	2,406,220	2,484,445	2,018,436
Inventories	5	28,454,895	26,766,464	23,869,136	22,452,811
Other current assets	3, 25	3,142,888	2,695,577	2,636,384	2,261,162
Total current assets		186,739,748	181,385,260	156,644,978	152,153,414
Non-current assets					
Financial assets at fair value through other comprehensive income	3, 4, 25	7,513,961	8,920,712	6,303,019	7,483,060
Financial assets at fair value through profit or loss	3, 4, 25	1,065,102	1,049,004	893,451	879,948
Investment in associates and joint ventures	6	7,588,174	7,591,612	6,365,272	6,368,156
Property, plant and equipment	7	121,677,972	119,825,474	102,068,486	100,514,534
Intangible assets	8	20,912,394	20,703,504	17,542,176	17,366,950
Net defined benefit assets	11	434,417	589,832	364,407	494,775
Deferred income tax assets		4,690,045	4,505,049	3,934,203	3,779,020
Other non-current assets	3	6,835,722	7,994,050	5,734,085	6,705,739
Total assets		357,457,535	352,564,497	299,850,077	295,745,596

The above consolidated statements of financial position should be read in conjunction with the accompanying notes.

INTERIM CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

(In millions of Korean won, in thousands of US dollars (Note 2.3))

		March 31,	December 31,	March 31,	December 31,
	Notes	2020	2019	2020	2019
		KRW	KRW	USD	USD
Liabilities and Equity					
Current liabilities					
Trade payables	3, 25	10,722,455	8,718,222	8,994,436	7,313,203
Short-term borrowings	3, 9, 25	11,607,088	14,393,468	9,736,503	12,073,833
Other payables	3, 25	12,962,612	12,002,513	10,873,572	10,068,201
Advances received	14	959,903	1,072,062	805,206	899,290
Withholdings	3	865,785	897,355	726,256	752,738
Accrued expenses	3, 14	18,468,757	19,359,624	15,492,353	16,239,649
Current income tax liabilities		2,608,414	1,387,773	2,188,045	1,164,121
Current portion of long-term liabilities	3, 9, 10, 25	834,474	846,090	699,991	709,735
Provisions	12	4,648,735	4,068,627	3,899,550	3,412,932
Other current liabilities	3, 14	1,085,067	1,037,030	910,199	869,903
Total current liabilities		64,763,290	63,782,764	54,326,111	53,503,605
Non-current liabilities					
Debentures	3, 10, 25	1,020,729	975,298	856,229	818,120
Long-term borrowings	3, 9, 25	2,202,901	2,197,181	1,847,884	1,843,086
Long-term other payables	3, 25	2,100,439	2,184,249	1,761,935	1,832,238
Net defined benefit liabilities	11	506,578	470,780	424,938	394,910
Deferred income tax liabilities		17,398,010	17,053,808	14,594,166	14,305,435
Long-term provisions	12	641,753	611,100	538,329	512,616
Other non-current liabilities	3, 14	2,436,112	2,408,896	2,043,511	2,020,680
Total liabilities		91,069,812	89,684,076	76,393,103	75,230,690

The above consolidated statements of financial position should be read in conjunction with the accompanying notes.

INTERIM CONSOLIDATED STATEMENTS OF FINANCIAL POSITION

(In millions of Korean won, in thousands of US dollars (Note 2.3))

		March 31,	December 31,	March 31,	December 31,
	Notes	2020	2019	2020	2019
		KRW	KRW	USD	USD
Equity attributable to owners of the paren	nt company				
Preference shares	15	119,467	119,467	100,213	100,213
Ordinary shares	15	778,047	778,047	652,658	652,658
Share premium		4,403,893	4,403,893	3,694,167	3,694,167
Retained earnings	16	257,078,919	254,582,894	215,648,367	213,554,599
Other components of equity	17	(3,898,556)	(4,968,829)	(3,270,269)	(4,168,058)
		258,481,770	254,915,472	216,825,136	213,833,579
Non-controlling interests		7,905,953	7,964,949	6,631,838	6,681,327
Total equity		266,387,723	262,880,421	223,456,974	220,514,906
Total liabilities and equity		357,457,535	352,564,497	299,850,077	295,745,596

The above consolidated statements of financial position should be read in conjunction with the accompanying notes.

INTERIM CONSOLIDATED STATEMENTS OF PROFIT OR LOSS

(In millions of Korean won, in thousands of US dollars (Note 2.3))

		For th	e three month peri	od ended March 3	1,
	Notes	2020	2019	2020	2019
		KRW	KRW	USD	USD
Revenue		55,325,178	52,385,546	46,409,034	43,943,150
Cost of sales	18	34,806,694	32,746,452	29,197,286	27,469,070
Gross profit		20,518,484	19,639,094	17,211,748	16,474,080
Selling and administrative expenses	18, 19	14,071,139	13,405,812	11,803,451	11,245,346
Operating profit		6,447,345	6,233,282	5,408,297	5,228,734
Other non-operating income	20	315,506	321,782	264,659	269,924
Other non-operating expense	20	364,055	257,131	305,384	215,692
Share of net profit of associates and joint ventures	6	60,644	77,681	50,871	65,162
Financial income	21	3,791,378	1,916,536	3,180,364	1,607,669
Financial expense	21	3,493,966	1,379,172	2,930,882	1,156,906
Profit before income tax		6,756,852	6,912,978	5,667,925	5,798,891
Income tax expense	22	1,871,926	1,869,393	1,570,248	1,568,124
Profit for the period		4,884,926	5,043,585	4,097,677	4,230,767
Profit attributable to owners of the parent company		4,889,599	5,107,490	4,101,597	4,284,373
Profit attributable to non-controlling interests		(4,673)	(63,905)	(3,920)	(53,606)
Earnings per share (in Korean won, in US dollars)	23				
- Basic		720	752	0.60	0.63
- Diluted		720	752	0.60	0.63

The above consolidated statements of profit or loss should be read in conjunction with the accompanying notes.

INTERIM CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(In millions of Korean won, in thousands of US dollars (Note 2.3))

		For the three month period ended March 31,							
	Notes	2020	2019	2020	2019				
		KRW	KRW	USD	USD				
Profit for the period		4,884,926	5,043,585	4,097,677	4,230,767				
Other comprehensive income (loss)									
Items that will not be reclassified to profit or loss									
subsequently: Gain (loss) on valuation of financial assets at fair value through other comprehensive income, net of tax	17	(1,109,611)	608,081	(930,787)	510,083				
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	17	(46,974)	(2,120)	(39,404)	(1,778)				
Remeasurement of net defined benefit liabilities (assets), net of tax	17	(32,696)	(37,234)	(27,427)	(31,233)				
Items that may be reclassified to profit or loss subsequently:									
Share of other comprehensive income of associates and joint ventures, net of tax	17	28,944	37,715	24,280	31,637				
Foreign currency translation, net of tax	17	2,228,543	2,209,376	1,869,393	1,853,315				
Gain (loss) on valuation of cash flow hedge derivatives	17	(29,038)	9,542	(24,358)	8,004				
Other comprehensive income (loss) for the period, net of tax		1,039,168	2,825,360	871,697	2,370,028				
Total comprehensive income for the period		5,924,094	7,868,945	4,969,374	6,600,795				
Comprehensive income attributable to:									
Owners of the parent company		5,971,500	7,837,573	5,009,140	6,574,479				
Non-controlling interests		(47,406)	31,372	(39,766)	26,316				

INTERIM CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(In millions of Korean won)

2019 KRW	Notes	Preference shares	Ordinary shares	Share premium	Retained earnings	Other components of equity	Equity attributable to owners of the parent company	Non- controlling interests	Total
Balance as of January 1, 2019		119,467	778,047	4,403,893	242,698,956	(7,931,370)	240,068,993	7,684,184	247,753,177
Profit for the period		-	-	-	5,107,490	-	5,107,490	(63,905)	5,043,585
Gain (loss) on valuation of financial assets at fair value through other comprehensive income, net of tax		-	-	-	-	568,521	568,521	39,560	608,081
Share of other comprehensive income (loss) of associates and joint ventures, net of tax		-	-	-	-	35,573	35,573	22	35,595
Foreign currency translation, net of tax		-	-	-	-	2,153,678	2,153,678	55,698	2,209,376
Remeasurement of net defined benefit liabilities (assets), net of tax		-	-	-	-	(37,231)	(37,231)	(3)	(37,234)
Gain on valuation of cash flow hedge derivatives		-	-	-	-	9,542	9,542	-	9,542
Total comprehensive income		-	-	-	5,107,490	2,730,083	7,837,573	31,372	7,868,945
Dividends		-	-	-	(2,405,428)	-	(2,405,428)	(1,034)	(2,406,462)
Capital transaction under common control		-	-	-	-	-	-	595	595
Changes in consolidated entities		-	-	-	-	-	-	(27)	(27)
Other		-	-	-	-	(1,329)	(1,329)	252	(1,077)
Total transactions with owners		-	-	-	(2,405,428)	(1,329)	(2,406,757)	(214)	(2,406,971)
Balance as of March 31, 2019		119,467	778,047	4,403,893	245,401,018	(5,202,616)	245,499,809	7,715,342	253,215,151

INTERIM CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(In thousands of US dollars (Note 2.3))

2019 USD	Notes	Preference shares	Ordinary shares	Share premium	Retained earnings	Other components of equity	Equity attributable to owners of the parent company	Non- controlling interests	Total
Balance as of January 1, 2019		100,213	652,658	3,694,167	203,585,863	(6,653,159)	201,379,742	6,445,809	207,825,551
Profit for the period		-	-	-	4,284,373	-	4,284,373	(53,606)	4,230,767
Gain (loss) on valuation of financial assets at fair value through other comprehensive income, net of tax		-	-	-	-	476,899	476,899	33,184	510,083
Share of other comprehensive income (loss) of associates and joint ventures, net of tax		-	-	-	-	29,840	29,840	19	29,859
Foreign currency translation, net of tax		-	-	-	-	1,806,594	1,806,594	46,721	1,853,315
Remeasurement of net defined benefit liabilities (assets), net of tax		-	-	-	-	(31,231)	(31,231)	(2)	(31,233)
Gain on valuation of cash flow hedge derivatives		-	-	-	-	8,004	8,004	-	8,004
Total comprehensive income		-	-	-	4,284,373	2,290,106	6,574,479	26,316	6,600,795
Dividends		-	-	-	(2,017,772)	-	(2,017,772)	(867)	(2,018,639)
Capital transaction under common control		-	-	-	-	-	-	499	499
Changes in consolidated entities		-	-	-	-	-	-	(23)	(23)
Other		-	-	-	-	(1,115)	(1,115)	211	(904)
Total transactions with owners		_	-	-	(2,017,772)	(1,115)	(2,018,887)	(180)	(2,019,067)
Balance as of March 31, 2019		100,213	652,658	3,694,167	205,852,464	(4,364,168)	205,935,334	6,471,945	212,407,279

INTERIM CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(In millions of Korean won)

2020 KRW	Notes	Preference shares	Ordinary shares	Share premium	Retained earnings	Other components of equity	Equity attributable to owners of the parent company	Non- controlling interests	Total
Balance as of January 1, 2020		119,467	778,047	4,403,893	254,582,894	(4,968,829)	254,915,472	7,964,949	262,880,421
Profit for the period		-	-	-	4,889,599	-	4,889,599	(4,673)	4,884,926
Gain (loss) on valuation of financial assets at fair value through other comprehensive income, net of tax	17	-	-	-	11,854	(1,011,548)	(999,694)	(109,917)	(1,109,611)
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	17	-	-	-	-	(18,090)	(18,090)	60	(18,030)
Foreign currency translation, net of tax	17	-	-	-	-	2,161,419	2,161,419	67,124	2,228,543
Remeasurement of net defined benefit liabilities (assets), net of tax	17	-	-	-	-	(32,696)	(32,696)	-	(32,696)
Loss on valuation of cash flow hedge derivatives	17	-	-	-	-	(29,038)	(29,038)	-	(29,038)
Total comprehensive income		-	-	-	4,901,453	1,070,047	5,971,500	(47,406)	5,924,094
Dividends		-	-	-	(2,405,428)	-	(2,405,428)	(7,074)	(2,412,502)
Capital transaction under common control		-	-	-	-	(1,126)	(1,126)	(568)	(1,694)
Other		-	-	-	-	1,352	1,352	(3,948)	(2,596)
Total transactions with owners		-	-	-	(2,405,428)	226	(2,405,202)	(11,590)	(2,416,792)
Balance as of March 31, 2020		119,467	778,047	4,403,893	257,078,919	(3,898,556)	258,481,770	7,905,953	266,387,723

INTERIM CONSOLIDATED STATEMENTS OF CHANGES IN EQUITY

(In thousands of US dollars (Note 2.3))

2020 USD	Notes	Preference shares	Ordinary shares	Share premium	Retained earnings	Other components of equity	Equity attributable to owners of the parent company	Non- controlling interests	Total
Balance as of January 1, 2020		100,213	652,658	3,694,167	213,554,599	(4,168,058)	213,833,579	6,681,327	220,514,906
Profit for the period		-	-	-	4,101,597	-	4,101,597	(3,920)	4,097,677
Gain (loss) on valuation of financial assets at fair value through other comprehensive income, net of tax	17	-	-	-	9,944	(848,528)	(838,584)	(92,203)	(930,787)
Share of other comprehensive income (loss) of associates and joint ventures, net of tax	17	-	-	-	-	(15,175)	(15,175)	51	(15,124)
Foreign currency translation, net of tax	17	-	-	-	-	1,813,087	1,813,087	56,306	1,869,393
Remeasurement of net defined benefit liabilities (assets), net of tax	17	-	-	-	-	(27,427)	(27,427)	-	(27,427)
Loss on valuation of cash flow hedge derivatives	17	-	-	-	-	(24,358)	(24,358)	-	(24,358)
Total comprehensive income		-	-	-	4,111,541	897,599	5,009,140	(39,766)	4,969,374
Dividends		-	-	-	(2,017,773)	-	(2,017,773)	(5,933)	(2,023,706)
Capital transaction under common control		-	-	-	-	(945)	(945)	(476)	(1,421)
Other		-			-	1,135	1,135	(3,314)	(2,179)
Total transactions with owners		-	-	-	(2,017,773)	190	(2,017,583)	(9,723)	(2,027,306)
Balance as of March 31, 2020		100,213	652,658	3,694,167	215,648,367	(3,270,269)	216,825,136	6,631,838	223,456,974

INTERIM CONSOLIDATED STATEMENTS OF CASH FLOWS

(In millions of Korean won, in thousands of US dollars (Note 2.3))

		For th	ree month perio	od ended March	31,
	Notes	2020	2019	2020	2019
		KRW	KRW	USD	USD
Cash flows from operating activities					
Profit for the period		4,884,926	5,043,585	4,097,677	4,230,767
Adjustments	24	9,475,166	9,244,062	7,948,159	7,754,299
Changes in assets and liabilities arising from operating activities	24	(2,352,885)	(8,744,115)	(1,973,697)	(7,334,923)
Cash generated from operations		12,007,207	5,543,532	10,072,139	4,650,143
Interest received		497,163	411,815	417,041	345,447
Interest paid		(110,968)	(130,960)	(93,085)	(109,855)
Dividends received		29,033	23,807	24,354	19,970
Income tax paid		(592,556)	(603,883)	(497,060)	(506,562)
Net cash inflow from operating activities		11,829,879	5,244,311	9,923,389	4,399,143
Cash flows from investing activities					
Net decrease (increase) in short-term financial instruments		(590,616)	2,941,570	(495,433)	2,467,510
Net decrease (increase) in short-term financial assets at amortized cost		991,685	(405,403)	831,866	(340,069)
Net decrease (increase) in short-term financial assets at fair value through profit or loss		549,031	337,711	460,550	283,286
Disposal of long-term financial instruments		2,140,624	225,764	1,795,643	189,380
Acquisition of long-term financial instruments		(2,180,111)	(3,464,066)	(1,828,767)	(2,905,801)
Acquisition of financial assets at amortized cost		-	(314,048)	-	(263,436)
Disposal of financial assets at fair value through other comprehensive income		18,478	22	15,500	18
Acquisition of financial assets at fair value through other comprehensive income		(3,514)	(18,738)	(2,948)	(15,718)
Disposal of financial assets at fair value through profit or loss		5,858	23,910	4,914	20,057
Acquisition of financial assets at fair value through profit or loss		(41,884)	(57,060)	(35,134)	(47,864)
Acquisition of investment in associates and joint ventures		(12,924)	(3,500)	(10,841)	(2,936)
Disposal of property, plant and equipment		69,837	119,296	58,582	100,070
Acquisition of property, plant and equipment		(8,564,279)	(4,197,261)	(7,184,069)	(3,520,835)
Disposal of intangible assets		588	1,591	493	1,335
Acquisition of intangible assets		(969,194)	(267,507)	(813,000)	(224,396)
Cash outflow from business combinations		(27,412)	(165,793)	(22,994)	(139,074)
Cash inflow (outflow) from other investing activities		84,631	(1,058)	70,993	(888)
Net cash outflow from investing activities		(8,529,202)	(5,244,570)	(7,154,645)	(4,399,361)

INTERIM CONSOLIDATED STATEMENTS OF CASH FLOWS

(In millions of Korean won, in thousands of US dollars (Note 2.3))

		For three month period ended March 31,						
	Notes	2020	2019	2020	2019			
		KRW	KRW	USD	USD			
Cash flows from financing activities								
Net increase (decrease) in short-term borrowings		(2,761,970)	(3,946,226)	(2,316,854)	(3,310,257)			
Repayment of debentures and long-term borrowings		(203,582)	(151,435)	(170,773)	(127,030)			
Dividends paid		(6,367)	(469)	(5,341)	(393)			
Net increase (decrease) in non-controlling interests		(1,694)	595	(1,421)	499			
Net cash outflow from financing activities		(2,973,613)	(4,097,535)	(2,494,389)	(3,437,181)			
Effect of exchange rate changes on cash and cash equivalents		703,620	433,334	590,225	363,499			
Net increase (decrease) in cash and cash equivalents		1,030,684	(3,664,460)	864,580	(3,073,900)			
Cash and cash equivalents,								
Beginning of the period		26,885,999	30,340,505	22,553,081	25,450,863			
End of the period		27,916,683	26,676,045	23,417,661	22,376,963			

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

1. General Information

1.1 Company Overview

Samsung Electronics Co., Ltd. ("SEC") was incorporated under the laws of the Republic of Korea in 1969 and listed its shares on the Korea Stock Exchange in 1975. SEC and its subsidiaries (collectively referred to as the "Company") operate four business divisions: Consumer Electronics ("CE"), Information technology & Mobile communications ("IM"), Device Solutions ("DS") and Harman. CE division includes digital TVs, monitors, air conditioners and refrigerators and IM division includes mobile phones, communication systems, and computers. DS division includes products such as memory, foundry and system LSI in the semiconductor business ("Semiconductor"), and LCD and OLED panels in the display business ("DP"). Harman division includes connected car systems, audio and visual products, enterprise automation solutions and connected services. The Company is domiciled in the Republic of Korea and the address of its registered office is Suwon, the Republic of Korea.

These interim consolidated financial statements have been prepared in accordance with Korean International Financial Reporting Standards ("Korean IFRS") 1110, Consolidated Financial Statements. SEC, as the controlling Company, consolidates its 244 subsidiaries, including Samsung Display and Samsung Electronics America. The Company also applies the equity method of accounting for its 41 associates and joint ventures, including Samsung Electro-Mechanics Co., Ltd.

1.2 Consolidated Subsidiaries

(A) The consolidated subsidiaries as of March 31, 2020 are as follows:

Area	Subsidiaries	Industry	Percentage of ownership ¹		
	Samsung Electronics America, Inc. (SEA)	Sale of electronic devices	100.0		
	NeuroLogica Corp.	Manufacture and sale of medical equipment	100.0		
	Dacor Holdings, Inc.	Holding company	100.0		
	Dacor, Inc.	Manufacture and sale of home appliances	100.0		
	Dacor Canada Co.	Sale of home appliances	100.0		
	EverythingDacor.com, Inc.	Sale of home appliances	100.0		
	Distinctive Appliances of California, Inc.	Sale of home appliances	100.0		
Samsung HVAC America, LLC		Sale of air conditioning products	100.0		
	SmartThings, Inc.	Sale of smart home electronics	100.0		
	Samsung Oak Holdings, Inc. (SHI)	Holding company	100.0		
Stellus Technologies, Inc. Joyent, Inc.		Manufacture and sale of semiconductor system	100.0		
		Cloud services	100.0		
	TeleWorld Solutions, Inc. (TWS)	Installation of network devices			
America	TWS LATAM B, LLC	Holding company	100.0		
	TWS LATAM S, LLC	Holding company	100.0		
	SNB Technologies, Inc. Mexico, S.A. de C.V	Installation of network devices	100.0		
	Prismview, LLC	Manufacture and sale of LED displays	100.0		
	Samsung Research America, Inc. (SRA)	R&D	100.0		
	Samsung Next LLC (SNX)	Holding company	100.0		
	Samsung Next Fund LLC (SNXF)	Technology business, venture capital investments	100.0		
	Viv Labs, Inc.	AI technology services	100.0		
	Samsung Semiconductor, Inc. (SSI)	Sale of semiconductor and display panels	100.0		
	Samsung Austin Semiconductor LLC. (SAS)	Manufacture of semiconductors	100.0		
	Samsung International, Inc. (SII)	Manufacture of CTV and monitors	100.0		
	Samsung Mexicana S.A. de C.V (SAMEX)	Manufacture of electronic devices	100.0		
	Samsung Electronics Home Appliances America, LLC (SEHA)	Manufacture of home appliances	100.0		
	SEMES America, Inc.	Semiconductor equipment	100.0		

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Area	Subsidiaries	Industry	Percentage of ownership ¹
	Zhilabs Inc.	Sale of network solutions	100.0
	Samsung Electronics Canada, Inc. (SECA)	Sale of electronic devices	100.0
	AdGear Technologies Inc.	Digital advertising platforms	100.0
	SigMast Communications Inc.	Development of mobile communications software	100.0
	Samsung Electronics Mexico S.A. De C.V. (SEM)	Sale of electronic devices	100.0
	Samsung Electronics Digital Appliance Mexico, SA de CV (SEDAM)	Manufacture of home appliances	100.0
	Samsung Electronics Latinoamerica Miami, Inc. (SEMI)	Sale of electronic devices	100.0
	Samsung Electronics Latinoamerica (Zona Libre), S. A. (SELA)	Sale of electronic devices	100.0
	Samsung Electronics Venezuela, C.A. (SEVEN)	Marketing and services	100.0
	Samsung Electronica Colombia S.A. (SAMCOL)	Sale of electronic devices	100.0
	Samsung Electronics Panama. S.A. (SEPA)	Consulting	100.0
	Samsung Electronica da Amazonia Ltda. (SEDA)	Manufacture and sale of electronic devices	100.0
	Samsung Electronics Argentina S.A. (SEASA)	Marketing and services	100.0
	Samsung Electronics Chile Limitada (SECH)	Sale of electronic devices	100.0
	Samsung Electronics Peru S.A.C. (SEPR)	Sale of electronic devices	100.0
A	Harman International Industries, Inc.	Holding company	100.0
America	Harman Becker Automotive Systems, Inc.	Manufacture and sale of audio products, R&D	100.0
	Harman Connected Services, Inc.	Connected service provider	100.0
	Harman Connected Services Engineering Corp.	Connected service provider	100.0
	Harman Connected Services South America S.R.L.	Connected service provider	100.0
	Harman da Amazonia Industria Eletronica e Participacoes Ltda.	Manufacture and sale of audio products	100.0
	Harman de Mexico, S. de R.L. de C.V.	Manufacture of audio products	100.0
	Harman do Brasil Industria Eletronica e Participacoes Ltda.	Sale of audio products, R&D	100.0
	Harman Financial Group LLC	Management company	100.0
	Harman International Industries Canada Ltd.	Sale of audio products	100.0
	Harman International Mexico, S. de R.L. de C.V.	Sale of audio products	100.0
	Harman KG Holding, LLC	Holding company	100.0
	Harman Professional, Inc.	Sale of audio products, R&D	100.0
	RT SV CO-INVEST, LP	Venture capital investments	99.9
	Beijing Integrated Circuit Industry International Fund, L.P	Venture capital investments	61.4
	China Materialia New Materials 2016 Limited Partnership	Venture capital investments	99.0

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Area	Subsidiaries	Industry	Percentage of ownership ¹
	Samsung Electronics (UK) Ltd. (SEUK)	Sale of electronic devices	100.0
	Samsung Electronics Ltd. (SEL)	Holding company	100.0
	Samsung Electronics Holding GmbH (SEHG)	Holding company	100.0
	Samsung Semiconductor Europe GmbH (SSEG)	Sale of semiconductor and display panels	100.0
	Samsung Electronics GmbH (SEG)	Sale of electronic devices	100.0
	Samsung Electronics Iberia, S.A. (SESA)	Sale of electronic devices	100.0
	Samsung Electronics France S.A.S. (SEF)	Sale of electronic devices	100.0
	Samsung Electronics Hungarian Private Co., Ltd. (SEH)	Manufacture and sale of electronic devices	100.0
	Samsung Electronics Czech and Slovak s.r.o. (SECZ)	Sale of electronic devices	100.0
	Samsung Electronics Italia S.P.A. (SEI)	Sale of electronic devices	100.0
	Samsung Electronics Europe Logistics B.V. (SELS)	Logistics	100.0
	Samsung Electronics Benelux B.V. (SEBN)	Sale of electronic devices	100.0
	Samsung Display Slovakia s.r.o. (SDSK)	Toll processing of display panels	100.0
	Samsung Electronics Romania LLC (SEROM)	Sale of electronic devices	100.0
	Samsung Electronics Polska, SP.Zo.o (SEPOL)	Sale of electronic devices	100.0
	Samsung Electronics Portuguesa S.A. (SEP)	Sale of electronic devices	100.0
	Samsung Electronics Nordic Aktiebolag (SENA)	Sale of electronic devices	100.0
	Samsung Semiconductor Europe Limited (SSEL)	Sale of semiconductor and display panels	100.0
Ennomo/CIC	Samsung Electronics Austria GmbH (SEAG)	Sale of electronic devices	100.0
Europe/CIS	Samsung Electronics Switzerland GmbH (SESG)	Sale of electronic devices	100.0
	Samsung Electronics Slovakia s.r.o (SESK)	Manufacture of CTV and monitors	100.0
	Samsung Electronics Baltics SIA (SEB)	Sale of electronic devices	100.0
	Samsung Electronics Europe Holding Cooperatief U.A. (SEEH)	Holding company	100.0
	Samsung Electronics Poland Manufacturing SP.Zo.o (SEPM)	Manufacture of home appliances	100.0
	Samsung Electronics Greece S.M.S.A (SEGR)	Sale of electronic devices	100.0
	Samsung Electronics Air Conditioner Europe B.V. (SEACE)	Sale of air conditioning products	100.0
	Samsung Nanoradio Design Center (SNDC)	R&D	100.0
	Samsung Denmark Research Center ApS (SDRC)	R&D	100.0
	Samsung Cambridge Solution Centre Limited (SCSC)	R&D	100.0
	Zhilabs, S.L.	Development and sale of network solutions	100.0
	Foodient Ltd	R&D	100.0
	Samsung Electronics Overseas B.V. (SEO)	Sale of electronic devices	100.0
	Samsung Electronics Rus Company LLC (SERC)	Sale of electronic devices	100.0
	Samsung Electronics Ukraine Company LLC (SEUC)	Sale of electronic devices	100.0
	Samsung R&D Institute Rus LLC (SRR)	R&D	100.0
	Samsung Electronics Central Eurasia LLP (SECE)	Sale of electronic devices	100.0
	Samsung Electronics Caucasus Co. Ltd (SECC)	Marketing	100.0
	Samsung Electronics Rus Kaluga LLC (SERK)	Manufacture of CTV	100.0

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Area	Subsidiaries	Industry	Percentage of ownership ¹
	AKG Acoustics GmbH	Manufacture and sale of audio products	100.0
	AMX UK Limited	Sale of audio products	100.0
	Arcam Limited	Holding company	100.0
	A&R Cambridge Limited	Sale of audio products	100.0
	Harman Audio Iberia Espana Sociedad Limitada	Sale of audio products	100.0
	Harman Automotive UK Limited	Manufacture of audio products	100.0
	Harman Becker Automotive Systems GmbH	Manufacture and sale of audio products, R&D	100.0
	Harman Becker Automotive Systems Italy S.R.L.	Sale of audio products	100.0
	Harman Becker Automotive Systems Manufacturing Kft	Manufacture of audio products, R&D	100.0
	Harman Belgium SA	Sale of audio products	100.0
	Harman Connected Services AB.	Connected service provider	100.0
	Harman Finland Oy	Connected service provider	100.0
	Harman Connected Services GmbH	Connected service provider	100.0
	Harman Connected Services Limited	Connected service provider	100.0
	Harman Connected Services Poland Sp.zoo	Connected service provider	100.0
	Harman Connected Services UK Ltd.	Connected service provider	100.0
	Harman Consumer Nederland B.V.	Sale of audio products	100.0
	Harman Deutschland GmbH	Sale of audio products	100.0
Europe/CIS	Harman Finance International GP S.a.r.l	Holding company	100.0
	Harman France SNC	Sale of audio products	100.0
	Harman Holding Gmbh & Co. KG	Management company	100.0
	Harman Hungary Financing Ltd.	Financing company	100.0
	Harman Inc. & Co. KG	Holding company	100.0
	Harman International Estonia OU	R&D	100.0
	Harman International Industries Limited	Sale of audio products, and other.	100.0
	Harman International Romania SRL	R&D	100.0
	Harman Finance International, SCA	Financing company	100.0
	Harman International s.r.o	Manufacture of audio products	100.0
	Harman Management GmbH	Holding company	100.0
	Harman Professional Kft	Manufacture of audio products, R&D	100.0
	Martin Manufacturing (UK) Ltd	Manufacture of audio products	100.0
	Harman Professional Denmark ApS	Sale of audio products, R&D	100.0
	Red Bend Software Ltd.	Software design	100.0
	Red Bend Software SAS	Software design	100.0
	Studer Professional Audio GmbH	Sale of audio products, R&D	100.0
	Harman Connected Services OOO	Connected service provider	100.0
	Harman RUS CIS LLC	Sale of audio products	100.0

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Area	Subsidiaries	Industry	Percentage o ownership ¹
	Samsung Electronics West Africa Ltd. (SEWA)	Marketing	100.0
	Samsung Electronics East Africa Ltd. (SEEA)	Marketing	100.0
	Samsung Gulf Electronics Co., Ltd. (SGE)	Sale of electronic devices	100.0
	Samsung Electronics Saudi Arabia Ltd.(SESAR)	Sale of electronic devices	100.0
	Samsung Electronics Egypt S.A.E (SEEG)	Manufacture and sale of electronic devices	100.0
	Samsung Electronics Israel Ltd. (SEIL)	Marketing	100.0
	Samsung Electronics Tunisia S.A.R.L (SETN)	Marketing	100.0
	Samsung Electronics Pakistan (Private) Ltd. (SEPAK)	Marketing	100.0
	Samsung Electronics South Africa (Pty) Ltd. (SSA)	Sale of electronic devices	100.0
Middle East & Africa	Samsung Electronics South Africa Production (pty) Ltd. (SSAP)	Manufacture of CTV and monitors	100.0
& Allica	Samsung Electronics Turkey (SETK)	Sale of electronic devices	100.0
	Samsung Semiconductor Israel R&D Center, Ltd. (SIRC)	R&D	100.0
	Samsung Electronics Levant Co.,Ltd. (SELV)	Sale of electronic devices	100.0
	Samsung Electronics Maghreb Arab (SEMAG)	Sale of electronic devices	100.0
	Corephotonics Ltd.	R&D	100.0
	Global Symphony Technology Group Private Ltd.	Holding company	100.0
	Harman Connected Services Morocco	Connected service provider	100.0
	Harman Industries Holdings Mauritius Ltd.	Holding company	100.0
	Red Bend Ltd.	Manufacture of audio products	100.0
	Samsung Japan Corporation (SJC)	Sale of semiconductor and display panels	100.0
	Samsung R&D Institute Japan Co. Ltd. (SRJ)	R&D	100.0
	Samsung Electronics Japan Co., Ltd. (SEJ)	Sale of electronic devices	100.0
	Samsung Electronics Display (M) Sdn. Bhd. (SDMA)	Manufacture of electronic devices	100.0
	Samsung Electronics (M) Sdn. Bhd. (SEMA)	Manufacture of home appliances	100.0
	Samsung Vina Electronics Co., Ltd. (SAVINA)	Sale of electronic devices	100.0
	Samsung Asia Private Ltd. (SAPL)	Sale of electronic devices	100.0
	Samsung India Electronics Private Ltd. (SIEL)	Manufacture and sale of electronic devices	100.0
	Samsung R&D Institute India-Bangalore Private Limited (SRI-Bangalore)	R&D	100.0
	Samsung Nepal Services Pvt, Ltd. (SNSL)	Service	100.0
	Samsung Display Noida Private Limited (SDN)	Manufacture of display panels	100.0
	Samsung Electronics Australia Pty. Ltd. (SEAU)	Sale of electronic devices	100.0
	Samsung Electronics New Zealand Limited (SENZ)	Sale of electronic devices	100.0
	PT Samsung Electronics Indonesia (SEIN)	Manufacture and sale of electronic devices	100.0
Asia (Excluding	PT Samsung Telecommunications Indonesia (STIN)	Sale of electronic devices and services	100.0
China)	Thai Samsung Electronics Co., Ltd. (TSE)	Manufacture and sale of electronic devices	91.8
	Laos Samsung Electronics Sole Co., Ltd. (LSE)	Marketing	100.0
	Samsung Electronics Philippines Corporation (SEPCO)	Sale of electronic devices	100.0
	Samsung Display Vietnam Co., Ltd. (SDV)	Manufacture of display panels	100.0
	Samsung Malaysia Electronics (SME) Sdn. Bhd. (SME)	Sale of electronic devices	100.0
	Samsung R&D Institute BanglaDesh Limited (SRBD)	R&D	100.0
	Samsung Electronics Vietnam Co., Ltd. (SEV)	Manufacture of electronic devices	100.0
	Samsung Electronics Vietnam THAINGUYEN Co., Ltd. (SEVT)	Manufacture of communication equipment	100.0
	Samsung Electronics HCMC CE Complex Co., Ltd. (SEHC)	Manufacture and sale of electronic devices	100.0
	Harman Connected Services Corp. India Pvt. Ltd.	Connected service provider	100.0
	Harman International (India) Private Limited	Sale of audio products, R&D	100.0
	Harman International Industries PTY Ltd.	Holding company	100.0
	Harman International Japan Co., Ltd.	Sale of audio products, R&D	100.0
	Harman Singapore Pte. Ltd.	Sale of audio products	100.0
	Martin Professional Pte. Ltd.	Sale of audio products	100.0

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

Area	Subsidiaries	Industry	Percentage of ownership ¹
	Samsung Display Dongguan Co., Ltd. (SDD)	Manufacture of display panels	100.0
	Samsung Display Tianjin Co., Ltd. (SDT)	Manufacture of display panels	95.0
	Samsung Electronics Hong Kong Co., Ltd. (SEHK)	Sale of electronic devices	100.0
	Suzhou Samsung Electronics Co., Ltd. (SSEC)	Manufacture of home appliances	88.3
	Samsung Suzhou Electronics Export Co., Ltd. (SSEC-E)	Manufacture of home appliances	100.0
	Samsung (CHINA) Investment Co., Ltd. (SCIC)	Sale of electronic devices	100.0
	Samsung Mobile R&D Center China-Guangzhou (SRC-Guangzhou)	R&D	100.0
	Samsung Tianjin Mobile Development Center (SRC-Tianjin)	R&D	100.0
	Samsung R&D Institute China-Shenzhen (SRC-Shenzhen)	R&D	100.0
	Samsung Electronics Suzhou Semiconductor Co., Ltd. (SESS)	Toll processing of semiconductors	100.0
	SEMES (XIAN) Co., Ltd.	Semiconductor equipment services	100.0
	Samsung Electronics Huizhou Co., Ltd. (SEHZ)	Manufacture of electronic devices	100.0
	Tianjin Samsung Electronics Co., Ltd. (TSEC)	Manufacture of CTV and monitors	91.2
	Samsung Electronics Taiwan Co., Ltd. (SET)	Sale of electronic devices	100.0
	Beijing Samsung Telecom R&D Center (SRC-Beijing)	R&D	100.0
	Tianjin Samsung Telecom Technology Co., Ltd. (TSTC)	Manufacture of communication equipment	90.0
a	Shanghai Samsung Semiconductor Co., Ltd. (SSS)	Sale of semiconductor and display panels	100.0
China	Samsung Electronics Suzhou Computer Co., Ltd. (SESC)	Manufacture of electronic devices	100.0
	Samsung Suzhou Module Co., Ltd. (SSM)	Manufacture of display panels	100.0
	Samsung Suzhou LCD Co., Ltd. (SSL)	Manufacture of display panels	60.0
	Shenzhen Samsung Electronics Telecommunication Co., Ltd. (SSET)	Manufacture of communication equipment	100.0
	Samsung Semiconductor (China) R&D Co., Ltd. (SSCR)	R&D	100.0
	Samsung Electronics China R&D Center (SRC-Nanjing)	R&D	100.0
	Samsung (China) Semiconductor Co., Ltd. (SCS)	Manufacture of semiconductors	100.0
	Samsung SemiConductor Xian Co., Ltd. (SSCX)	Sale of semiconductor and display panels	100.0
	Tianjin Samsung LED Co., Ltd. (TSLED)	Manufacture of LED	100.0
	Harman (China) Technologies Co., Ltd.	Manufacture of audio products	100.0
	Harman (Suzhou) Audio and Infotainment Systems Co., Ltd.	Sale of audio products	100.0
	Harman Automotive Electronic Systems (Suzhou) Co., Ltd.	Manufacture of audio products, R&D	100.0
	Harman Commercial (Shanghai) Co., Ltd.	Sale of audio products	100.0
	Harman Connected Services Solutions (Chengdu) Co., Ltd.	Connected service provider	100.0
	Harman Holding Limited	Sale of audio products	100.0
	Harman International (China) Holdings Co., Ltd.	Sale of audio products, R&D	100.0
	Harman Technology (Shenzhen) Co., Ltd.	Sale of audio products, R&D	100.0

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships

Area	Subsidiaries	Industry	Percentage of ownership ¹
	Samsung Display Co., Ltd.	Manufacture and sale of display panels	84.8
	SU Materials	Manufacture of display components	50.0
	STECO Co., Ltd.	Manufacture of semiconductor components	70.0
	SEMES Co., Ltd.	Manufacture of semiconductor/FPD	91.5
	Samsung Electronics Service Co., Ltd.	Repair services for electronic devices	99.3
	Samsung Electronics Service Customer Satisfaction	Call center for repair services for electronic devices	100.0
	Samsung Electronics Sales Co., Ltd.	Sale of electronic devices	100.0
	Samsung Electronics Logitech Co., Ltd.	General logistics agency	100.0
	Samsung Medison Co., Ltd.	Manufacture and sale of medical equipment	68.5
	Mirero System Co., Ltd.	Development and supply of semiconductor process defect and quality control software	99.9
	Dowooinssys Co., Ltd. ²	Manufacture of display components	48.2
	Gf-System Co., Ltd.	Manufacture of display components	97.5
	Harman International Korea	Software development and supply, etc.	100.0
Domestic	Samsung Venture Capital Union #21	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #22	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #26	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #27	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #28	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #29	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #32	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #33	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #37	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #40	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #42	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #43	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #45	Technology business, Venture capital investments	99.0
	Samsung Venture Capital Union #48	Technology business, Venture capital investments	99.0
	Growth type private equity trust specialized in semiconductors	Investment on semiconductor industry	66.7

¹ Ownership represents the Company's ownership of the voting rights in each entity, including subsidiaries' ownerships.

² Classified as a subsidiary although the ownership is less than 50%, as the Company is considered to have a de facto control over the investee.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(B) Summary of financial data of major consolidated subsidiaries is as follows:

(1) 2020

For the three month period ended (In millions of Korean won) As of March 31, 2020 March 31, 2020 Profit (loss) Major subsidiaries1 Liabilities Sales **Assets** for the period 44,299,770 Samsung Display ₩ ₩ 5,288,609 ₩ 5,351,135 ₩ (382,889)Samsung Electronics America (SEA) 39,343,316 16,747,660 8,895,272 720,795 Samsung Electronics Vietnam THAINGUYEN (SEVT) 16,515,929 3,325,033 8,188,977 746,562 Harman and its subsidiaries² 15,719,145 5,761,495 2,090,238 (219,846)Samsung (China) Investment (SCIC) 14,274,561 11,167,654 608,433 53,010 Samsung Electronics Vietnam (SEV) 13,983,079 1,983,819 5,459,986 429,629 Samsung (China) Semiconductor (SCS) 13,710,784 3,517,904 974,755 109,769 Samsung Electronics Europe Holding (SEEH) 10,018,307 7,008,523 (194)Samsung Asia Private (SAPL) 9,796,144 702,622 482,404 66,852 Samsung Semiconductor (SSI) 9,438,214 3,670,575 4,589,450 65,151 Samsung Display Vietnam (SDV) 7,479,342 4,518,975 4,171,676 129,019 3,603,106 Samsung India Electronics (SIEL) 7,217,775 2,560,825 168,213 7,045,012 518,902 Samsung Austin Semiconductor (SAS) 1,102,177 308,262 Shanghai Samsung Semiconductor (SSS) 6,360,499 4,713,066 6,222,379 72,151 5,945,265 1,282,039 Samsung Electronica da Amazonia (SEDA) 1,688,661 224,117 Thai Samsung Electronics (TSE) 2,940,877 538,395 905,750 18,614 Samsung Electronics (UK) (SEUK) 2,735,380 2,005,840 1,115,159 (30,103)Samsung Electronics HCMC CE Complex (SEHC) 2,437,539 957,229 1,265,222 135,062 Samsung Electronics GmbH (SEG) 2,184,721 2,081,862 1,505,578 41,689 Samsung Electronics Hungarian (SEH) 2,108,666 441,001 739,353 44,680 2,065,196 759,747 26,375 Samsung Electronics Benelux (SEBN) 630,869 Samsung Electronics Europe Logistics (SELS) 2,050,648 1,631,169 3,145,239 270,122 1,855,975 632,477 Samsung Suzhou LCD (SSL) 331,768 7,680 Samsung Display Dongguan Co., Ltd. (SDD) 1,758,455 325,617 590,707 27,813 Samsung International, Inc. (SII) 1,663,057 572,231 1,280,259 154,770

¹ Above summary of condensed financial information is based on separate financial statements of each subsidiary.

² Consolidated financial data of an intermediate company that includes Harman International Industries, Inc. and its subsidiaries.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(2) 2019

For the three month period ended (In millions of Korean won) As of December 31, 2019 March 31, 2019 Profit (loss) Major subsidiaries¹ Assets Liabilities Sales for the period ₩ 46,543,974 Samsung Display 6,421,516 ₩ 5,055,988 ₩ (472,682)Samsung Electronics America (SEA) 34,704,039 13,992,397 8,491,807 229,749 Harman and its subsidiaries² 15,609,084 5,791,272 2,193,427 (20,430)Samsung (China) Investment (SCIC) 14,637,222 11,701,871 975,498 29,675 2,075,180 Samsung Electronics Vietnam THAINGUYEN (SEVT) 13,847,934 8,573,178 760,102 Samsung (China) Semiconductor (SCS) 12,370,070 2,678,742 973,966 133,786 Samsung Electronics Vietnam (SEV) 12,367,857 1,418,876 6,011,872 539,835 Samsung Electronics Europe Holding (SEEH) 10,682,847 7,662,042 2,486 Samsung Semiconductor (SSI) 9,194,190 3,795,273 3,009,239 (67,699)Samsung Asia Private (SAPL) 9,137,262 579,618 380,011 41,988 Samsung Display Vietnam (SDV) 7,267,124 4,587,477 3,080,517 (58,009)Samsung Electronica da Amazonia (SEDA) 7,058,719 1,594,907 202,785 1,686,763 Samsung India Electronics (SIEL) 7,042,872 3,588,241 2,861,929 129,788 Samsung Austin Semiconductor (SAS) 6,437,865 556,765 898,842 140.034 4,446,885 Shanghai Samsung Semiconductor (SSS) 5,880,616 5,162,500 46,807 Thai Samsung Electronics (TSE) 2,912,731 450,833 1,028,582 9,611 Samsung Electronics (UK) (SEUK) 2,644,358 1,877,903 1,098,665 (7,455)Samsung Electronics HCMC CE Complex (SEHC) 2,305,587 1,035,533 1,266,704 127,328 Samsung Electronics GmbH (SEG) 2,258,269 2,199,561 1,424,996 (71,203)Samsung Electronics Hungarian (SEH) 2,109,654 416,160 28,758 653,860 Samsung SemiConductor Xian Co., Ltd. (SSCX) 1,954,875 2,091,092 653,504 7,316 Samsung Electronics Europe Logistics (SELS) 2,027,213 1,891,221 3,303,456 170,514 Samsung Electronics Benelux (SEBN) 1,914,864 673,887 653,539 1,443 Samsung Suzhou LCD (SSL) 1,808,262 625,541 363,103 14,867 Samsung Display Dongguan Co., Ltd. (SDD) 1,795,077 444,552 715,768 10,075

(C) Changes in the scope of consolidation

Subsidiaries newly included in the consolidation during the three month period ended March 31, 2020:

Area	Subsidiary	Description
	TeleWorld Solutions. Inc. (TWS)	
A:	TWS LATAM B, LLC	Ai-i-i
America	TWS LATAM S, LLC	Acquisition
	SNB Technologies, Inc. Mexico, S.A. de C.V	

¹ Above summary of condensed financial information is based on separate financial statements of each subsidiary.

² Consolidated financial data of an intermediate company that includes Harman International Industries, Inc. and its subsidiaries.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

2. Significant Accounting Policies

2.1 Basis of Presentation

The Company maintains its accounting records in Korean won and prepares statutory financial statements in the Korean language (Hangul) in accordance with International Financial Reporting Standards as adopted by the Republic of Korea ("Korean IFRS"). The accompanying interim consolidated financial statements have been condensed, restructured and translated into English from the Korean language financial statements.

The interim consolidated financial statements for the three month period ended March 31, 2020, have been prepared in accordance with *Korean IFRS 1034*, *Interim Financial Reporting*. These interim consolidated financial statements have been prepared in accordance with the Korean IFRS which is effective as of March 31, 2020.

(A) New and amended standards adopted by the Company

The Company applied the following amended and enacted standards for the first time for their annual reporting period commencing January 1, 2020:

Amendments to Korean IFRS 1103, Business Combination

To consider the integration of the required activities and assets as a business, the amended definition of a business requires an acquisition to include an input and a substantive process that together significantly contribute to the ability to create outputs and excludes economic benefits from the lower costs. An entity can apply a concentration test, 'optional test', where substantially all of the fair value of gross assets acquired is concentrated in a single asset (or group of similar assets), the assets acquired would not represent a business. This amendment does not have a significant impact on the consolidated financial statements.

(B) New and amended standards not yet adopted by the Company

There are no major new accounting standards or amendments issued that are effective for the annual reporting period commencing January 1, 2020.

2.2 Accounting Policies

Significant accounting policies and method of computation used in the preparation of the interim consolidated financial statements are consistent with those of the annual financial statements for the year ended December 31, 2019, except for the changes due to the application of amendments and enactments of standards described in Note 2.1 and as described below.

(A) Income tax expense

Income tax expense for the interim period is recognized based on management's best estimate of the weighted average annual income tax rate expected for the full financial year. The estimated average annual effective income tax rate is applied to the pretax income of the interim period.

2.3 Convenience Translation into United States Dollar Amounts

The Company operates primarily in Korean won and its official accounting records are maintained in Korean won. The US dollar amounts provided in the consolidated financial statements represent supplementary information solely for the convenience of the reader. All Korean won amounts are expressed in US dollars at the rate of \mathbb{W} 1,192.1 to \$1, the average exchange rate for the three month period ended March 31, 2020. Such presentation is not in accordance with generally accepted accounting principles, and should not be construed as a representation that the Korean won amounts shown could be readily converted, realized or settled in US dollars at this or at any other rate.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

2.4 Critical Accounting Estimates and Assumptions

In preparing the interim consolidated financial statements, the management of the Company makes judgements, estimates and assumptions on matters which affect the application of policies and reported amounts of assets, liabilities, income and expenses. Estimates and assumptions are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. The resulting accounting estimates, by definition, seldom equal the related actual results. Recent spread of COVID-19 may result in changes to the Company's assumptions and estimates, but its potential financial impact cannot be reasonably estimated as of the reporting date.

Critical accounting estimates and assumptions made in the preparation of the interim consolidated financial statements are consistent with those applied in the preparation of the annual consolidated financial statements for the year ended December 31, 2019, except for the estimates used to determine the income tax expense.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

3. Financial Instruments by Category

Categorizations of financial assets and liabilities as of March 31, 2020 and December 31, 2019 are as follows:

(A) As of March 31, 2020

(In millions of Korean won)	Financial assets measured at amortized cost		Financial assets measured at fair value through other comprehensive income		Financial assets measured at fair value through profit or loss		Other financial assets ¹			Total
Financial assets										
Financial assets										
Cash and cash equivalents	₩	27,916,683	₩	-	₩	-	₩	-	₩	27,916,683
Short-term financial instruments		78,638,015		-		-		-		78,638,015
Trade receivables		36,388,583		-		-		-		36,388,583
Financial assets at amortized cost		3,037,379		-		-		-		3,037,379
Financial assets at fair value through other comprehensive income		-		7,513,961		-		-		7,513,961
Financial assets at fair value through profit or loss		-		-		2,303,861		-		2,303,861
Other		8,914,933		-		298,678		30,729		9,244,340
Total	₩	154,895,593	₩	7,513,961	₩	2,602,539	₩	30,729	₩	165,042,822

¹Other financial assets include derivatives designated as hedging instruments, which are not subject to categorizations.

(In millions of Korean won)	me	Financial liabilities measured at amortized cost		ncial liabilities neasured at value through rofit or loss		er financial iabilities ¹	Total		
Financial liabilities									
Trade payables	₩	10,722,455	₩	-	₩	-	₩	10,722,455	
Short-term borrowings		2,604,030		-		9,003,058		11,607,088	
Other payables		11,828,629		-		-		11,828,629	
Current portion of long-term liabilities		41,230		-		793,244		834,474	
Debentures		1,020,729		-		-		1,020,729	
Long-term borrowings		-		-		2,202,901		2,202,901	
Long-term other payables		1,740,673		2,445		-		1,743,118	
Other		8,841,406		254,767		56,141		9,152,314	
Total	₩	36,799,152	₩	257,212	₩	12,055,344	₩	49,111,708	

¹ Other financial liabilities include collateralized borrowings, lease liabilities and derivatives designated as hedging instruments, which are not subject to categorizations.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(B) As of December 31, 2019

(In millions of Korean won)	Financial assets measured at amortized cost		Financial assets measured at fair value through other comprehensive income		Financial assets measured at fair value through profit or loss		Other financial assets ¹			Total
Financial assets										
Cash and cash equivalents	₩	26,885,999	₩	-	₩	-	₩	-	₩	26,885,999
Short-term financial instruments		76,252,052		-		-		-		76,252,052
Trade receivables		35,131,343		-		-		-		35,131,343
Financial assets at amortized cost		3,914,216		-		-		-		3,914,216
Financial assets at fair value through other comprehensive income		-		8,920,712		-		-		8,920,712
Financial assets at fair value through profit or loss		-		-		2,776,440		-		2,776,440
Other		9,656,415		-		181,682		26,444		9,864,541
Total	₩	151,840,025	₩	8,920,712	₩	2,958,122	₩	26,444	₩	163,745,303

¹Other financial assets include derivatives designated as hedging instruments, which are not subject to categorizations.

(In millions of Korean won)	Financial liabilities measured at amortized cost		fair	ancial liabilities measured at r value through profit or loss	(Other financial liabilities ¹	Total		
Financial liabilities									
Trade payables	₩	8,718,222	₩	-	₩	-	₩	8,718,222	
Short-term borrowings		2,659,107		-		11,734,361		14,393,468	
Other payables		11,034,253		-		-		11,034,253	
Current portion of long-term liabilities		41,022		-		805,068		846,090	
Debentures		975,298		-		-		975,298	
Long-term borrowings		-		-		2,197,181		2,197,181	
Long-term other payables		1,820,611		2,316		-		1,822,927	
Others		8,158,935		204,671		10,540		8,374,146	
Total	₩	33,407,448	₩	206,987	₩	14,747,150	₩	48,361,585	

¹ Other financial liabilities include collateralized borrowings and derivatives designated as hedging instruments, which are not subject to categorizations.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

4. Financial Assets at Fair Value

- (A) Details of financial assets at fair value as of March 31, 2020 and December 31, 2019 are as follows:
 - (1) Financial assets at fair value through other comprehensive income

(In millions of Korean won)		March 31, 2020		December 31, 2019
Non-current portion				
Equity instruments	₩	7,513,961	₩	8,920,712

(2) Financial assets at fair value through profit or loss

	March 31, 2020		December 31, 2019		
		•			
₩	1,238,759	₩	1,727,436		
	680,328		704,155		
	384,774		344,849		
	1,065,102		1,049,004		
₩	2,303,861	₩	2,776,440		
		₩ 1,238,759 680,328 384,774 1,065,102	₩ 1,238,759 ₩ 680,328 384,774 1,065,102		

(B) Details of listed equity securities of financial assets at fair value as of March 31, 2020 and December 31, 2019 are as follows:

		December 31, 2019						
(In millions of Korean won, number of shares and percentage)	Number of shares owned	Percentage of ownership ¹ (%)	Acqu	isition cost	cost Carrying amount (Market value)		Carrying amount (Market value)	
Samsung Heavy Industries	100,693,398	16.0	₩	735,488	₩	392,704	₩	732,041
Hotel Shilla	2,004,717	5.1		13,957		141,333		182,028
iMarket Korea	647,320	1.8		324		5,858		6,732
Wonik Holdings	3,518,342	4.6		30,821		11,874		19,210
Wonik IPS	3,701,872	7.5		32,428		92,362		132,712
SFA	3,644,000	10.2		38,262		113,875		168,535
ASML	6,297,787	1.5		363,012		2,059,252		2,154,676
Wacom	8,398,400	5.0		62,013		30,203		39,765
BYD	52,264,808	1.9		528,665		540,451		412,935
Other				296,744		390,172		419,868
Total			₩	2,101,714	₩	3,778,084	₩	4,268,502

¹ Ownership represents the Company's ownership of ordinary shares issued in each entity.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

5. Inventories

Inventories as of March 31, 2020 and December 31, 2019 are as follows:

March 31, 2020 December 31, 2019 Gross (In millions of Korean Valuation Carrying Gross Valuation Carrying allowa<u>nce</u> allowa<u>nce</u> won) amount amount amount amount Finished goods 7,514,978 (307,260)7,207,718 8,460,621 (345,505)8,115,116 Work in process 10,798,274 (649,981)10,148,293 10,424,880 9,886,634 (538,246)(541,155) 9,341,047 8,818,432 7,747,110 Raw materials and supplies (522,615)8,288,265 Materials in transit 2,280,452 2,280,452 1,017,604 1,017,604 ₩ 29,934,751 28,191,370 ₩ (1,479,856) 28,454,895 ₩ (1,424,906) 26,766,464 **Total**

6. Investments in Associates and Joint Ventures

(A) Changes in investments in associates and joint ventures for the three month period ended March 31, 2020 and 2019 are as follows:

(In millions of Korean won)		2020				
Balance as of January 1	₩	7,591,612	₩	7,313,206		
Acquisition		12,924		3,544		
Disposal		-		-		
Share of profit		60,644		77,681		
Other ¹		(77,006)		(78,483)		
Balance as of March 31	₩	7,588,174	₩	7,315,948		

¹ Other consists of dividends, impairment, reclassification and the cumulative effect of changes in accounting principles.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(B) Major investments in associates and joint ventures as of March 31, 2020 are as follows:

(1) Investments in associates

Investee	Nature of relationship with associate	Percentage of ownership ¹ (%)	Principal business location	The end of the reporting period
Samsung Electro- Mechanics	Manufacture and supply electronic components including passive components, circuit boards, and modules	23.7	Korea	December
Samsung SDS	Provide IT services including computer programming, system integration and management and logistical services	22.6	Korea	December
Samsung Biologics	New business investment	31.5	Korea	December
Samsung SDI ²	Manufacture and supply electronics including secondary cell batteries	19.6	Korea	December
Cheil Worldwide	Advertising agency	25.2	Korea	December

¹ Ownership represents the Company's ownership of ordinary shares issued in each entity.

(2) Investments in joint ventures

Investee	Nature of relationship with joint venture	Percentage of ownership ¹ (%)	Principal business location	The end of the reporting period
Samsung Corning Advanced Glass	Manufacture and supply industrial glass devices	50.0	Korea	December

¹ Ownership represents the Company's ownership of ordinary shares issued in each entity.

² The Company's ownership of ordinary shares outstanding is 20.6%.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(C) Details of investments in associates and joint ventures as of March 31, 2020 and December 31, 2019 are as follows:

(1) Investments in associates

(In millions of Korean won)

March 31, 2020

(
Investee	Ac	equisition cost		Net asset value of equity shares ¹		Carrying amount		
Samsung Electro-Mechanics	₩	359,237	₩	1,256,187	₩	1,174,802		
Samsung SDS		147,963		1,435,642		1,461,220		
Samsung Biologics		443,193		1,383,775		1,388,555		
Samsung SDI		1,242,605		2,437,878		2,202,125		
Cheil Worldwide		506,162		255,645		555,396		
Other		549,877		388,620		565,227		
Total	₩	3,249,037	₩	7,157,747	₩	7,347,325		

¹ The Company's portion of net asset value of associates is based on the Company's ownership percentage.

(In millions of Korean won)

December 31, 2019

(
Investee	Ac	quisition cost		Net asset value of equity shares ¹		Carrying amount		
Samsung Electro-Mechanics	₩	359,237	₩	1,237,753	₩	1,152,734		
Samsung SDS		147,963		1,478,586		1,499,571		
Samsung Biologics		443,193		1,371,315		1,377,043		
Samsung SDI		1,242,605		2,481,233		2,233,516		
Cheil Worldwide		506,162		271,409		570,215		
Other		550,404		373,606		523,794		
Total	₩	3,249,564	₩	7,213,902	₩	7,356,873		

¹ The Company's portion of net asset value of associates is based on the Company's ownership percentage.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(2) Investments in joint ventures

(In millions of Korean won)

March 31, 2020

Investee		Acquisition cost	Net asset value of equity shares ¹			Carrying amount		
Samsung Corning Advanced Glass	₩	215,000	₩	174,219	₩	174,215		
Other		259,994		69,640		66,634		
Total	₩	474,994	₩	243,859	₩	240,849		

¹ The Company's portion of net asset value of joint ventures is based on the Company's ownership percentage.

(In millions of Korean won)

December 31, 2019

Investee		Acquisition cost		t value of equity shares ¹	Carrying amount		
Samsung Corning Advanced Glass	₩	215,000	₩	173,746	₩	173,742	
Other		259,994		66,848		60,997	
Total	₩	474,994	₩	240,594	₩	234,739	

¹ The Company's portion of net asset value of joint ventures is based on the Company's ownership percentage.

(D) Details of the valuation of investments in associates and joint ventures using the equity method are as follows:

(1) For the three month period ended March 31, 2020

(In millions of Korean won)		Balance as of January 1		Share of other comprehensive (loss) income		hensive			lance as of March 31	
Samsung Electro-Mechanics	₩	1,152,734	₩	33,157	₩	8,373	₩	(19,462)	₩	1,174,802
Samsung SDS		1,499,571		(6,722)		10,304		(41,933)		1,461,220
Samsung Biologics		1,377,043		11,115		397		-		1,388,555
Samsung SDI		2,233,516		5,696		(23,624)		(13,463)		2,202,125
Cheil Worldwide		570,215		6,885		2,107		(23,811)		555,396
Samsung Corning Advanced Glass		173,742		473		-		-		174,215
Other		584,791		10,040		197		36,833		631,861
Total	₩	7,591,612	₩	60,644	₩	(2,246)	₩	(61,836)	₩	7,588,174

¹ Other consists of acquisitions, disposals, dividends, impairment and reclassification.

(2) For the three month period ended March 31, 2019

(In millions of Korean won)		llance as of anuary 1		e of profit (loss)	comp	e of other rehensive come		Other ¹		ance as of Iarch 31
Samsung Electro-Mechanics	₩	1,126,043	₩	18,827	₩	11,422	₩	(17,693)	₩	1,138,599
Samsung SDS		1,376,321		31,642		6,345		(34,944)		1,379,364
Samsung Biologics		1,308,546		(12,742)		4,205		-		1,300,009
Samsung SDI		2,197,335		23,004		5,945		(13,463)		2,212,821
Cheil Worldwide		549,165		9,562		3,549		(22,360)		539,916
Samsung Corning Advanced Glass		173,499		217		-		-		173,716
Other		582,297		7,171		4,248		(22,193)		571,523
Total	₩	7,313,206	₩	77,681	₩	35,714	₩	(110,653)	₩	7,315,948

¹ Other consists of acquisitions, disposals, dividends, impairment, reclassification and the cumulative effect of changes in accounting principles.

- (E) Summary of the condensed financial information of major associates and joint ventures
 - (1) Summary of condensed financial information of major associates and dividends received from associates as of March 31, 2020 and December 31, 2019, and for the three month period ended March 31, 2020 and 2019, is as follows:

	2020									
(In millions of Korean won)	1	Samsung Electro- Iechanics	San	nsung SDS		amsung iologics	San	nsung SDI	Che Woi	il Idwide
1. Condensed financial information										
${\bf Condensed\ statements\ of\ financial\ position:}$										
Current assets	₩	4,255,031	₩	6,363,583	₩	1,428,491	₩	5,387,839	₩	1,782,905
Non-current assets		5,229,462		2,615,341		4,516,481		14,499,070		476,144
Current liabilities		2,483,767		1,834,154		674,183		3,816,072		1,163,055
Non-current liabilities		1,488,760		613,232		879,191		3,606,569		195,736
Non-controlling interests		148,205		175,855		-		354,687		8,622
Condensed statements of comprehensive inco	me:									
Revenue	₩	2,224,466	₩	2,436,079	₩	207,197	₩	2,397,530	₩	681,249
Profit or loss from continuing operations ¹		124,114		(29,826)		36,653		(9,587)		24,019
Profit or loss from discontinued operation ¹		7,939		-		-		-		-
Other comprehensive income ¹		29,907		25,518		491		(138,823)		1,999
Total comprehensive income ¹		161,960		(4,308)		37,144		(148,410)		26,018
2. Dividends from associates										
Dividends	₩	19,462	₩	41,933	₩	-	₩	13,463	₩	23,811

¹ Profit (loss) attributable to owners of the parent company

						2019				
(In millions of Korean won)		Samsung Electro- Mechanics		sung SDS	Samsung Biologics		Samsung SDI		Cheil Worldwide	
1. Condensed financial information										
Condensed statements of financial position:										
Current assets	₩	3,507,525	₩	6,383,847	₩	1,356,262	₩	5,181,415	₩	1,787,299
Non-current assets		5,166,724		2,637,389		4,555,365		14,670,682		504,347
Current liabilities		1,850,405		1,698,187		690,505		3,741,523		1,115,652
Non-current liabilities		1,393,746		597,891		866,668		3,450,229		219,178
Non-controlling interests		145,050		179,362		-		335,408		10,197
Condensed statements of comprehensive incom	e:									
Revenue	₩	2,062,291	₩	2,502,458	₩	125,365	₩	2,304,064	₩	811,993
Profit or loss from continuing operations ¹		176,135		140,001		(38,450)		50,180		22,860
Profit or loss from discontinued operation ¹		(46,336)		-		-		-		-
Other comprehensive income ¹		49,761		28,271		(561)		97,636		10,989
Total comprehensive income ¹		179,560		168,272		(39,011)		147,816		33,849
2. Dividends from associates										
Dividends	₩	17,693	₩	34,944	₩	-	₩	13,463	₩	22,359

¹ Profit (loss) attributable to owners of the parent company.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(2) Summary of condensed financial information of major joint ventures and dividends received from joint ventures as of March 31, 2020 and December 31, 2019, and for the three month period ended March 31, 2020 and 2019, is as follows:

	Samsung Corning Advanced Glass						
(In millions of Korean won)		2020					
1. Condensed financial information							
Condensed statements of financial position:							
Current assets	₩	158,928	₩	164,870			
- Cash and cash equivalent		22,702		35,553			
Non-current assets		225,610		225,334			
Current liabilities		33,768		40,567			
- Financial liabilities ¹		19,010		21,108			
Non-current liabilities		2,332		2,146			
Condensed statements of comprehensive income ² :							
Revenue	₩	56,484	₩	57,924			
Depreciation and amortization		240		7,253			
Interest income		212		122			
Income tax expense		134		103			
Profit from continuing operations		946		434			
Other comprehensive income		-		-			
Total comprehensive income		946		434			
2. Dividends from joint ventures							
Dividends	₩	-	₩	-			

¹ Trade payables, other payables and provisions are excluded.

(3) Profit (loss) attributable to owners of the parent company from associates and joint ventures which are not individually material for the three month period ended March 31, 2020 and 2019 are as follows:

	2020					2019			
(In millions of Korean won)	Ass	sociates	ciates Joint		Associates		Joint ventures		
Profit from continuing operations	₩	9,912	₩	128	₩	6,930	₩	241	
Other comprehensive income		(1,294)		1,491		3,663		585	
Total comprehensive income	₩	8,618	₩	1,619	₩	10,593	₩	826	

(F) Details of marketable investments in associates as of March 31, 2020 and December 31, 2019 are as follows:

(In millions of Korean won and number of	March	December 31, 2019			
shares)	Number of shares held		Market value	Mar	ket value
Samsung Electro-Mechanics	17,693,084	₩	1,728,614	₩	2,211,636
Samsung SDS	17,472,110		2,612,080		3,398,325
Samsung Biologics	20,836,832		10,043,353		9,022,348
Samsung SDI	13,462,673		3,237,773		3,177,191
Cheil Worldwide	29,038,075		460,253		698,366

² Amounts relate to the three months ended March 31, 2020 and 2019.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(G) Other Matters

On July 12, 2018, the Korea Securities and Futures Commission determined a first measure following an investigation relating to Samsung Biologics Co., Ltd., an associate of the Company, and its accounting for its investment in Samsung Bioepis Co., Ltd, a joint venture between Biogen Therapeutics Inc. and Samsung Biologics Co., Ltd. The first measure included a recommendation to dismiss the director in charge, prosecution charges, and external auditor designation by the regulator, on the basis that the Joint Venture Agreement was not disclosed in the notes to the financial statements. On November 14, 2018, the Korea Securities and Futures Commission determined a second measure, which included a penalty of \mathbb{W} 8,000 million, a recommendation to dismiss the CEO, a requirement to restate its financial statements, and further prosecution charges.

Consequently, Samsung Biologics Co., Ltd. filed a suit for cancellation of the aforementioned measures to the Seoul Administrative Court to suspend the execution of these measures, and the respective court has pronounced a decision to suspend these measures until the final rulings on January 22, 2019 and February 19, 2019, relating to the second and first measures, respectively. The Korea Securities and Futures Commission immediately appealed against the decision to suspend execution but on May 13, 2019 and May 24, 2019, relating to the second and first measures, respectively, the Court dismissed the Korea Securities and Futures Commission's appeal. The Korea Securities and Futures Commission has re-appealed on May 23, 2019 and June 10, 2019, relating to the second and first measures, respectively. On September 6, 2019 and October 11, 2019, the Court dismissed the Korea Securities and Futures Commission's re-appeal, relating to the second and first measures, respectively.

Although the future outcome of the administrative litigation cannot be estimated, should Samsung Biologics Co., Ltd. be required to restate its financial statements to amend its historical accounting treatment relating to its investment in Samsung Bioepis Co., Ltd., the Company's share of profit or loss relating to its equity method investment, the amount of investment in associates, and retained earnings, for the years ended from December 31, 2015 and onwards, and the profit on disposal of investment for the year ended December 31, 2016, may be impacted. Given the timing of completion and the final result of the administrative litigation between Samsung Biologics Co., Ltd. and the Korea Securities and Futures Commission is uncertain and cannot currently be estimated, it is not possible for the Company to recognize the effects of these proceedings in the current period consolidated financial statements.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

7. Property, Plant and Equipment

(A) Changes in property, plant and equipment for the three month period ended March 31, 2020 and 2019 are as follows:

(In millions of Korean won)		2020	2019	
Balance as of January 1	₩	119,825,474	₩	115,416,724
Acquisition and capital expenditures		7,528,089		4,709,517
Depreciation		(6,591,167)		(6,840,816)
Disposals/scrap/impairment		(120,028)		(216,973)
Other ¹		1,035,604		3,323,904
Balance as of March 31	₩	121,677,972	₩	116,392,356

¹ Other includes the cumulative effect of changes in accounting principles, effects of changes in foreign currency exchange rates and effects of the offset related to government grants.

(B) Details of depreciation of property, plant and equipment for the three month period ended March 31, 2020 and 2019 are as follows:

(In millions of Korean won)	2	020		2019
Cost of sales	₩	5,781,344	₩	6,112,146
Selling and administrative expenses and other		809,823		728,670
Total	₩	6,591,167	₩	6,840,816

(C) Right-of-use assets as of March 31, 2020 amounts to \$\psi\$ 3,314,866 million (December 31, 2019: \$\psi\$ 3,311,919 million). During the three month period ended March 31, 2020 and 2019, newly recognized right-of-use assets amount to \$\psi\$ 204,038 and \$\psi\$ 235,721, with relevant depreciation of \$\psi\$ 198,075 million and \$\psi\$ 168,980 million.

8. Intangible Assets

(A) Changes in intangible assets for the three month period ended March 31, 2020 and 2019 are as follows:

(In millions of Korean won)		2020		2019
Balance as of January 1	₩	20,703,504	₩	14,891,598
External acquisitions		371,836		139,543
Internally generated (development costs)		-		127,964
Amortization		(814,438)		(254,728)
Disposals/scrap/impairment		(12,923)		(11,489)
Other ¹		664,415		(24,856)
Balance as of March 31	₩	20,912,394	₩	14,868,032

¹ Other includes the cumulative effect of changes in foreign currency exchange rates and business combinations.

(B) Details of amortization of intangible assets for the three month period ended March 31, 2020 and 2019 are as follows:

(In millions of Korean won)	202	20		2019
Cost of sales	₩	575,855	₩	88,155
Selling and administrative expenses and other		238,583		166,573
Total	₩	814,438	₩	254,728

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

9. Borrowings

Details of the carrying amounts of borrowings as of March 31, 2020 and December 31, 2019 are as follows:

		Annual interest rates (%)				
(In millions of Korean won)	Financial institutions	as of March 31, 2020	Mai	rch 31, 2020	Dece	mber 31, 2019
Short-term borrowings						
Collateralized borrowings ¹	Woori Bank and others	0.0~21.0	₩	9,003,058	₩	11,734,361
Non-collateralized borrowings	Citibank and others	0.0~12.6		2,604,030		2,659,107
Total			₩	11,607,088	₩	14,393,468
Current portion of long-term bo	rrowings					
Bank borrowings	KEB Hana Bank And others	3.5~4.5	₩	35,261	₩	35,376
Lease liabilities ²	CSSD and others	3.8		793,244		805,068
Total			₩	28,505	₩	840,444
Long-term borrowings						
Lease liabilities ²	CSSD and others	3.8		2,202,901		2,197,181
Total			₩	2,202,901	₩	2,197,181

¹ Collateralized borrowings are secured by trade receivables.

10. Debentures

Details of the carrying amounts of debentures as of March 31, 2020 and December 31, 2019 are as follows:

Annual interest rates (%)(In millions of Korean won) Issue date Due date as of March 31, 2020 March 31, 2020 December 31, 2019 ₩ 48,904 46,312 US dollar denominated straight bonds1 1997.10.2 2027.10.1 7.7 (USD 40 million) (USD 40 million) 489,040 463,120 US dollar denominated debenture bonds² 2015.5.6 2025.5.15 4.2 (USD 400 million) (USD 400 million) 454,100 472,026 EURO denominated debenture bonds³ 2015.5.20 2 2022.5.27 (EUR 350 million) (EUR 350 million) Less: Discounts (1,149)(1.146)Add: Premium 17.877 18.558 Less: Current portion (5,969)(5,646)₩ 1,020,729 ₩ 975,298 Total

² Interest expenses arising from the lease liabilities during the three months ended March 31, 2020 and 2019 amounts to ₩ 28,609 million, and ₩ 23,626 million respectively, which were determined using the weighted average incremental borrowing rate. The right-of-use assets are pledged as collateral to the lessor in the event of default.

¹ US dollar denominated straight bonds are repaid annually for twenty years after a ten-year grace period from the date of issuance. Interest is paid semi-annually.

² Harman International Industries issued US dollar denominated debenture bonds. Repayment of these debentures is due on the date of maturity and interest is paid semi-annually.

³ Harman Finance International SCA issued Euro denominated debenture bonds. Repayment of these debentures is due on the date of maturity and interest is paid annually.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

11. Net Defined Benefit Liabilities (Assets)

Details of net defined benefit liabilities (assets) recognized in the statements of financial position as of March 31, 2020 and December 31, 2019 are as follows:

(In millions of Korean won)	March 31, 2020	December 31, 2019		
Present value of funded defined benefit obligations	₩10,999,378	₩10,864,675		
Present value of unfunded defined benefit obligations	302,427	283,394		
Subtotal	11,301,805	11,148,069		
Fair value of plan assets	(11,229,644)	(11,267,121)		
Total	₩72,161	(₩119,052)		

(A) The amounts recognized in the statements of profit or loss for the three month period ended March 31, 2020 and 2019 relating to defined benefit plans are as follows:

(In millions of Korean won)	2020	2019
Current service cost	₩287,089	₩231,925
Net interest income	(958)	(780)
Past service cost	90	861
Other	(8,563)	2,216
Total	₩277,658	₩234,222

(B) The expenses related to defined benefit plans recognized in the statements of profit or loss for the three month period ended March 31, 2020 and 2019 are as follows:

(In millions of Korean won)	2020	2019
Cost of sales	₩126,269	₩105,409
Selling and administrative expenses and other	151,389	128,813
Total	₩277,658	₩234,222

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

12. Provisions

Changes in the provisions for the three month period ended March 31, 2020 are as follows:

(In millions of Korean won)		Warranty (A)		Royalty expenses (B)		Long-term centives (C)		Other (D, E)		Total
Balance as of January 1	₩	1,791,007	₩	1,053,448	₩	793,270	₩	1,042,002	₩	4,679,727
Charged to the statement of profit or loss		316,764		71,604		71,345		814,790		1,274,503
Payment		(285,059)		(26,803)		(146,418)		(219,703)		(677,983)
Other ¹		(46,986)		54,642		564		6,021		14,241
Balance as of March 31	₩	1,775,726	₩	1,152,891	₩	718,761	₩	1,643,110	₩	5,290,488

¹ Other includes effects of changes in foreign currency exchange rates.

- (A) The Company accrues warranty reserves for estimated costs of future service, repairs and recalls, based on historical experience and terms of warranty programs.
- (B) The Company recognizes provisions for the estimated royalty expenses that are under negotiation with counterparties. The timing and amount of payment depend on the settlement of the negotiation.
- (C) The Company has a long-term incentive plan for its executives based on a three-year management performance criteria and recognizes a provision for the estimated incentive cost for the accrued period.
- (D) The Company records provisions for the estimated expenses occurring from discontinuing production, sale of products and other activities.
- (E) The Company makes provisions for the carrying amounts of emission rights held by the Company and the emission in excess of the emission rights for the applicable years. Details of emission rights and liabilities as of March 31, 2020 are as follows:
 - (1) Allocated amount of emission permits and the estimated amount of emission as of March 31, 2020 are as follows:

(In ten thousand metric tons)	March 31, 2020
Allocated emission permits	1,496
Estimated volume of emission	1,850

(2) Changes in the emission permits rights for the three month period ended March 31, 2020 are as follows:

(In millions of Korean won)	2020	1
Balance as of January 1	₩	38,787
Acquisition		-
Balance as of March 31	₩	38,787

(3) Changes in the provisions for emissions liabilities for the three month period ended March 31, 2020 are as follows:

(In millions of Korean won)	2020	
Balance as of January 1	₩	18,414
Charged to the statement of profit or loss		33,169
Submission		-
Balance as of March 31	₩	51,583

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

13. Commitments and Contingencies

(A) Litigation

The Company is involved in various claims, disputes, and investigations conducted by regulatory bodies, which arose during the normal course of business with numerous entities. Although the outflow of resources and timing of these matters are uncertain, as of the reporting date, the Company believes the outcome will not have a material impact on the financial position of the Company.

14. Contract Liabilities

The Company has recognized the following contract liabilities related to contracts with customers as follow:

(In millions of Korean won)	Marc	March 31, 2020		aber 31, 2019
				_
Contract liabilities ¹	₩	9,056,817	₩	9,240,401

¹ Contract liabilities include advances received, accrued expenses, other current liabilities and others.

15. Share Capital

As of March 31, 2020, the Company's total number of authorized shares is 25,000,000,000 shares (\mathbb{W} 100 per share). The Company has issued 5,969,782,550 shares of ordinary shares and 822,886,700 shares of preference shares as of March 31, 2020, excluding retired shares. Due to the retirement of shares, the total par value of the shares issued is \mathbb{W} 679,267 million (ordinary shares of \mathbb{W} 596,978 million and preference shares of \mathbb{W} 82,289 million), which does not agree with paid-in capital of \mathbb{W} 897,514 million.

16. Retained Earnings

(A) Retained earnings as of March 31, 2020 and December 31, 2019 consist of the following:

(In millions of Korean won)	March 31, 2020			December 31, 2019		
Discretionary reserve, etc.	₩	174,074,817	₩	168,322,868		
Unappropriated		83,004,102		86,260,026		
Total	₩	257,078,919	₩	254,582,894		

(B) Details of interim dividends for the three month period ended March 31, 2020 and 2019 are as follows:

(In millions of Korean won)			2020		2019
	Ordinary shares		5,969,782,550		5,969,782,550
Number of shares eligible for dividends	Preference share		822,886,700		822,886,700
Dividend rate (based on par value)			354%		354%
	Ordinary shares	₩	2,113,303	₩	2,113,303
Dividend amount	Preference share		291,302		291,302
	Total	₩	2,404,605	₩	2,404,605

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

17. Other Components of Equity

Other components of equity as of March 31, 2020 and December 31, 2019 are as follows:

(In millions of Korean won)	March 31, 2020	December 31, 2019
Gain (loss) on valuation of financial assets at fair value through other comprehensive income	₩ 1,561,982	₩ 2,573,530
Share of other comprehensive income of associates and joint ventures	(30,825)	(12,735)
Foreign currency translation	(3,484,350)	(5,645,769)
Remeasurement of net defined benefit liabilities (assets)	(1,976,980)	(1,944,284)
Other	31,617	60,429
Total	₩ (3,898,556)	₩ (4,968,829)

18. Expenses by Nature

Expenses by nature for the three month period ended March 31, 2020 and 2019 consist of the following:

(In millions of Korean won)	2020	2019		
Changes in finished goods and work in process	₩ 645,739	₩ (1,760,479)		
Raw materials used and merchandise purchased	18,411,092	19,329,539		
Wages and salaries	6,087,291	5,925,979		
Post-employment benefit	305,463	280,234		
Depreciation	6,591,167	6,840,816		
Amortization	814,438	254,728		
Welfare	1,141,558	1,161,852		
Utilities	1,154,703	1,102,031		
Outsourcing	1,349,170	1,186,687		
Advertising	959,628	965,523		
Sales promotion expenses	1,612,091	1,732,965		
Other	9,805,493	9,132,389		
Total ¹	₩ 48,877,833	₩ 46,152,264		

¹ Equal to the sum of cost of sales and selling and administrative expenses in the interim consolidated statements of profit or loss.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

19. Selling and Administrative Expenses

Selling and administrative expenses for the three month period ended March 31, 2020 and 2019 are as follows:

(In millions of Korean won)		2020			
1) Selling and administrative expenses					
,	₩	1 (22 (52	₩ 1.576.131		
Wages and salaries	₩	-,,	-,-,-,		
Post-employment benefit		57,324	73,713		
Commissions and service charges		1,380,275	1,324,015		
Depreciation		409,564	383,984		
Amortization		144,711	104,477		
Advertising		959,628	965,523		
Sales promotion expenses		1,612,091	1,732,965		
Transportation		452,241	504,235		
Warranty		732,528	701,878		
Other		1,329,130	1,136,309		
2) Research and development expenses					
Total expenses		5,359,994	5,030,546		
Capitalized expenses		-	(127,964)		
Total	₩	14,071,139	₩ 13,405,812		

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

20. Other Non-Operating Income and Expenses

Details of other non-operating income and expenses for the three month period ended March 31, 2020 and 2019 are as follows:

(In millions of Korean won)	2	2019		
Non-operating income				
Dividend income	₩	36,029	₩	34,711
Rental income		36,285		39,170
Gain on disposal of investments		24,005		11,363
Gain on disposal of property, plant and equipment		35,385		89,679
Other		183,802		146,859
Total	₩	315,506	₩	321,782
(In millions of Korean won)	2	020		2019
Non-operating expenses				
Loss on disposal of property, plant and equipment	₩	9,166	₩	43,948
Donations		77,444		45,606
Other		277,445		167,577
Total	₩	364,055	₩	257,131

21. Financial Income and Expenses

(A) Details of financial income and expenses for the three month period ended March 31, 2020 and 2019 are as follows:

(In millions of Korean won)		2020		2019	
Financial income					
Interest income:	₩	586,833	₩	662,010	
Interest income from financial assets measured at amortized cost		586,750		661,897	
Interest income from financial assets measured at fair value through profit or loss		83		113	
Foreign exchange differences		2,762,502		1,039,362	
Gains from derivatives		442,043		215,164	
Total	₩	3,791,378	₩	1,916,536	
(In millions of Korean won)		2020		2019	
Financial expenses					
Interest expenses:	₩	140,173	₩	174,061	
Interest expense from financial liabilities measured at amortized cost		47,120		71,373	
Other financial liabilities		93,053		102,688	
Foreign exchange differences		3,069,171		1,007,044	
Losses from derivatives		284,622		198,067	
Total	₩	3,493,966	₩	1,379,172	

⁽B) The Company recognizes foreign exchange gains and losses arising from foreign currency transactions and translation as financial income and expenses.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

22. Income Tax Expense

Income tax expense is recognized based on management's best estimate of the weighted average annual income tax rate expected for the full financial year. The average annual tax rate expected as of March 31, 2020 to be effective for the year ended December 31, 2020 is 27.7%.

23. Earnings per Share

(A) Basic earnings per share

Basic earnings per share for the three month period ended March 31, 2020 and 2019 are calculated as follows:

(1) Ordinary Shares

(In millions of Korean won, thousands of number of shares)		2020	2019		
Profit for the period attributable to owners of the parent company	₩	4.889.599	₩	5,107,490	
Profit for the period available for ordinary shares		4,297,257		4,488,752	
Weighted-average number of ordinary shares outstanding		5,969,783		5,969,783	
Basic earnings per ordinary share (in Korean won)	₩	720	₩	752	

(2) Preference Shares

(In millions of Korean won, thousands of number of shares)		2020	2019		
Profit for the period attributable to owners of the parent company	₩	4,889,599	₩	5,107,490	
Profit for the period available for preference shares		592,342		618,738	
Weighted-average number of preference shares outstanding		822,887		822,887	
Basic earnings per preference share (in Korean won)	₩	720	₩	752	

(B) Diluted earnings per share

The Company does not have dilutive potential ordinary shares and as a result, basic earnings per share and diluted earnings per share are the same for the three month period ended March 31, 2020 and 2019.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

24. Cash Flows

Adjustments and changes in assets and liabilities arising from operating activities for the three month period ended March 31, 2020 and 2019 are as follows:

- Adjustments

(In millions of Korean won)	2020		2019		
Adjustments for:					
Income tax expense	₩ 1,8′	71,926	₩ 1,869,393		
Financial income	(2,11	7,124)	(1,284,064)		
Financial expenses	1,72	25,650	753,498		
Post-employment benefits	30	05,463	280,234		
Depreciation	6,59	91,167	6,840,816		
Amortization	8:	14,438	254,728		
Bad debt expenses (reversal)		26,524	15,518		
Dividend income	(3	6,029)	(34,711)		
Share of profit of associates and joint ventures	(6	0,644)	(77,681)		
Gain on disposal of property, plant and equipment	(3	5,385)	(89,679)		
Loss on disposal of property, plant and equipment		9,166	43,948		
Loss on valuation of inventories	33	38,707	684,245		
Gain on disposal of investments	(2	4,005)	(11,363)		
Others	(55,312	(820)		
Total	₩ 9,4	75,166 \	₩ 9,244,062		

- Changes in assets and liabilities arising from operating activities

a millions of Korean won) 2020				2019		
Changes in assets and liabilities:						
Increase in trade receivables	₩	(415,809)	₩	(1,603,834)		
Decrease (increase) in other receivables		852,573		(237,431)		
Increase in advance payments		(14,922)		(134,806)		
Decrease (increase) in prepaid expenses		(394,549)		119,105		
Increase in inventories		(1,763,793)		(2,786,782)		
Increase in trade payables		1,062,153		822,177		
Increase (decrease) in other payables		110,517		(948,085)		
Increase (decrease) in advances received		(127,657)		65,936		
Decrease in withholdings		(51,497)		(178,942)		
Decrease in accrued expenses		(1,036,733)		(4,509,347)		
Increase in provisions		596,520		841,609		
Payment of post-employment benefits		(254,411)		(97,553)		
Others		(915,277)		(96,162)		
Total	₩	(2,352,885)	₩	(8,744,115)		

For the three month period ended March 31, 2020 and 2019, cash outflows from repayment of the principal (financial activities) were $\mbox{$\mathbb{W}$}$ 203,467 million and $\mbox{$\mathbb{W}$}$ 149,229 million, while cash outflows due to interest expenses (operating activities) in relation to the lease liabilities amount to $\mbox{$\mathbb{W}$}$ 28,609 million and $\mbox{$\mathbb{W}$}$ 23,636 million, respectively.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

25. Financial Risk Management

The Company's financial risk management focuses on minimizing market risk, credit risk, and liquidity risk arising from operating activities. To mitigate these risks, the Company implements and operates a financial risk policy and program that closely monitors and manages such risks. In addition, the Company uses derivatives to hedge certain risk exposure.

The finance team mainly carries out the Company's financial risk management. With the cooperation of the Company's divisions, domestic and foreign subsidiaries, the finance team periodically measures, evaluates and hedges financial risk and also establishes and implements the global financial risk management policy.

The Company also operates local finance centers in accordance with global financial risk management across major regions, including the United States, United Kingdom, Singapore, China, Brazil and Russia.

The Company's financial assets that are under financial risk management are comprised of cash and cash equivalents, short-term financial instruments, financial assets at amortized cost, financial assets at fair value through other comprehensive income, financial assets at fair value through profit or loss, trade receivables and other receivables. The Company's financial liabilities under financial risk management are comprised of trade payables, borrowings, debentures, and other liabilities.

(A) Market risk

Foreign exchange risk

Revenues and expenses arise from foreign currency transactions and exchange positions, and the most widely used currencies are the US dollar, EU's Euro, and Indian Rupee.

To minimize foreign exchange risk arising from operating activities, the Company's foreign exchange management policy requires normal business transactions to be in local currency or for the cash-in currency to be matched up with the cash-out currency. In addition, the Company makes use of derivatives to minimize the uncertainty of cash flows and fluctuation of profit or loss occurring from foreign exchange risk. The Company's foreign exchange risk management policy also defines foreign exchange risk, measuring period, controlling responsibilities, management procedures, hedging period and hedge ratio.

The Company limits all speculative foreign exchange transactions and operates a system to manage receivables and payables denominated in foreign currency. It evaluates, manages and reports foreign currency exposures to receivables and payables.

(2) Interest rate risk

Risk of changes in interest rates for floating interest rate financial instruments is defined as the risk that the fair value of components of the statement of financial position, and future cash flows of interest income (expenses) of a financial instrument, will fluctuate because of changes in market interest rates. The Company's position with regard to interest rate risk exposure is mainly driven by its floating interest rate debt obligations and interest-bearing deposits. The Company implemented policies and operates to minimize uncertainty arising from changes in interest rates and financial expenses.

In order to minimize interest rate risk, the Company maintains minimum external borrowings by facilitating cash pooling systems on a regional and global basis. The Company manages exposed interest rate risk via periodic monitoring and handling risk factors on a timely basis.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(3) Price risk

The Company's investment portfolio consists of direct and indirect investments in equity instruments classified as financial assets at fair value through other comprehensive income and financial assets at fair value through profit or loss, which is in line with the Company's strategy.

As of March 31, 2020 and December 31, 2019, price fluctuation of marketable equity securities by 1% would result in changes in other comprehensive income (before income tax) of $\mathbb W$ 36,038 million and $\mathbb W$ 33,499 million, respectively, and changes in profit before tax of $\mathbb W$ 1,743 million and $\mathbb W$ 250 million, respectively.

(B) Credit risk

Credit risk arises during the normal course of transactions and investing activities where clients or other parties fail to discharge an obligation. The Company monitors and sets the client's and counterparty's credit limit on a periodic basis based on the client's and counterparty's financial conditions, default history and other important factors. Adequate insurance coverage is maintained for trade receivables related to trading partners situated in higher risk countries.

Credit risk can arise from transactions with financial institutions which include financial instrument transactions such as cash and cash equivalents, deposits, and derivative instruments. To minimize such risk, the Company transacts only with banks which have a strong international credit rating (S&P A and above), and all new transactions with financial institutions with no prior transaction history are approved, managed and monitored by the Company's finance team and the local finance center. The Company generally enters into a financial agreement with no restrictions, such as debt ratio covenants, provision of collateral and/or repayment of loans/ borrowings. The Company requires separate approvals for contracts with restrictions.

As of March 31, 2020 and December 31, 2019, the Company estimates that its maximum exposure to credit risk is the carrying amount of its financial assets, net of impairment losses.

(C) Liquidity risk

Due to large investments made by the Company, maintaining adequate levels of liquidity risk is critical. The Company strives to achieve this goal by periodically forecasting its capital balance, estimating required cash levels, and managing income and expenses.

The Company manages its liquidity risk by periodically forecasting projected cash flows. If abnormal signs are identified, the Company works with the local finance center and provides liquidity support by utilizing a globally integrated finance structure, such as Cash Pooling. In addition, the Company maintains a liquidity management process which provides additional financial support from the local finance center and the Company. The Cash Pooling program allows the sharing of surplus funds among entities and contributes to minimizing liquidity risk and strengthening the Company's competitive position by reducing capital operation expenses and financial expenses.

In addition, the Company mitigates liquidity risk by contracting with financial institutions with respect to bank overdrafts and foreign trade finance, and by providing payment guarantees to subsidiaries to secure the required credit limit. For large scale facility investments, liquidity risk is minimized by utilizing internal reserves and long term borrowings according to the capital injection schedule.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(D) Capital risk management

The purpose of capital management is to maintain a sound capital structure. The Company monitors capital on the basis of the ratio of total liabilities to total equity. This ratio is calculated by dividing total liabilities by total equity in the financial statements.

The Company's capital risk management policy has not changed since the prior reporting periods. The Company has maintained an AA- and Aa3 credit rating from S&P and Moody's, respectively.

The total liabilities to equity ratios as of March 31, 2020 and December 31, 2019 are as follows:

(In millions of Korean won)	M	farch 31, 2020	December 31, 2019		
Total liabilities	₩	91,069,812	₩	89,684,076	
Total equity		266,387,723		262,880,421	
Total liabilities to equity ratio		34.20%		34.10%	

(E) Fair value estimation

(1) Carrying amounts and fair values of financial instruments by category as of March 31, 2020 and December 31, 2019 are as follows:

		March 31,	2020		December 31, 2019			
(In millions of Korean won)	orean won) Carrying amount Fair value		Fair value	Carı	ying amount	Fair value		
Financial assets								
Cash and cash equivalents	₩	27,916,683	(*1)	₩	26,885,999	(*1)		
Short-term financial instruments		78,638,015	(*1)		76,252,052	(*1)		
Short-term financial assets at amortized cost		3,037,379	(*1)		3,914,216	(*1)		
Short-term financial assets at fair value through profit or loss		1,238,759	1,238,759		1,727,436	1,727,436		
Trade receivables		36,388,583	(*1)		35,131,343	(*1)		
Financial assets at fair value through other comprehensive income		7,513,961	7,513,961		8,920,712	8,920,712		
Financial assets at fair value through profit or loss		1,065,102	1,065,102		1,049,004	1,049,004		
Other ²		9,244,340	329,407		9,864,541	208,126		
Total financial assets	₩	165,042,822		₩	163,745,303			
Financial liabilities								
Trade payables		₩10,722,455	(*1)		₩8,718,222	(*1)		
Short-term borrowings		11,607,088	(*1)		14,393,468	(*1)		
Other payables		11,828,629	(*1)		11,034,253	(*1)		
Current portion of long-term liabilities ³		834,474	(*1)(*3)		846,090	(*1)(*3)		
Debentures		1,020,729	1,032,234		975,298	1,013,245		
Long-term borrowings ³		2,202,901	(*1)(*3)		2,197,181	(*1)(*3)		
Long-term other payables ²		1,743,118	2,445		1,822,927	2,316		
Other ²		9,152,314	310,908		8,374,146	215,211		
Total financial liabilities	₩	49,111,708		₩	48,361,585			

¹ Assets and liabilities whose carrying amount is a reasonable approximation of fair value are excluded from the fair value disclosures.

² Assets measured at the cost of ₩ 8,914,933 million (December 31, 2019: ₩ 9,656,415 million) and liabilities measured at the cost of ₩10,582,079 million (December 31, 2019: ₩9,979,546 million) are excluded as the carrying amount is a reasonable approximation of fair value.

³ Lease liabilities, classified under the current portion of long-term liabilities and long-term borrowings, are excluded from the fair value disclosures in accordance with *Korean IFRS 1107*.

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(2) Fair value hierarchy classifications of the financial instruments that are measured at fair value or its fair value is disclosed as of March 31, 2020 and December 31, 2019 are as follows:

(In millions of Korean won)		Level 1		Level 2		Level 3		otal balance
1) Assets								
Financial assets at fair value through other comprehensive income	₩	3,603,828	₩	-	₩	3,910,133	₩	7,513,961
Financial assets at fair value through profit or loss		174,256		20,966		2,108,639		2,303,861
Other		-		329,407		-		329,407
2) Liabilities								
Debentures	₩	-	₩	1,032,234	₩	-	₩	1,032,234
Long-term other payables		-		-		2,445		2,445
Other		-		310,908		-		310,908

December 31, 2019

(In millions of Korean won)	Level 1		Level 2			Level 3	Total balance			
1) Assets										
Financial assets at fair value through other comprehensive income	₩	4,105,456	₩	-	₩	4,815,256	₩	8,920,712		
Financial assets at fair value through profit or loss		163,046		20,966		2,592,428		2,776,440		
Other		-		208,126		-		208,126		
2) Liabilities										
Debentures	₩	-	₩	1,013,245	₩	-	₩	1,013,245		
Long-term other payables		-		-		2,316		2,316		
Other		-		215,211		-		215,211		

The levels of the fair value hierarchy and its application to financial assets and liabilities are described below.

- · Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities
- Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly
- · Level 3: Inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs)

The fair value of financial instruments traded in active markets is based on quoted market prices at the statement of financial position date. A market is regarded as active if quoted prices are readily and regularly available from an exchange, dealer, broker, industry group, pricing service, or regulatory agency, and those prices represent actual and regularly occurring market transactions on an arm's length basis. The quoted market price used for financial assets held by the Company is the current bid price. These instruments are included in Level 1. The instruments included in Level 1 are listed equity investments, most of which are classified as financial assets at fair value through other comprehensive income.

The fair value of financial instruments that are not traded in an active market (for example, over-the-counter derivatives) is determined by using valuation techniques. These valuation techniques maximize the use of observable market data where it is available and rely as little as possible on entity-specific estimates. If all significant inputs required to fair value an instrument are observable, the instrument is included in Level 2.

If one or more of the significant inputs are not based on observable market data, the instrument is included in Level 3.

The Company performs the fair value measurements required for financial reporting purposes, including Level 3 fair values and discusses valuation processes and results at least once every quarter in line with the Company's quarterly reporting dates.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

The Company's policy is to recognize transfers between levels at the end of the reporting period, if corresponding events or changes in circumstances have occurred.

Specific valuation techniques used to value financial instruments include:

- · Quoted market prices or dealer quotes for similar instruments
- The fair value of forward foreign exchange contracts is determined using forward exchange rates at the statement of financial position date, with the resulting value discounted back to present value

Other techniques, such as discounted cash flow analysis, are used to determine fair value for the remaining financial instruments. For trade and other receivables that are classified as current assets, the book value approximates a reasonable estimate of fair value.

(3) Valuation technique and the inputs

The Company utilizes a present value technique to discount future cash flows using a proper interest rate for corporate bonds, government and public bonds, and bank debentures that are classified as Level 2 in the fair value hierarchy.

The following table presents the valuation technique and the inputs used for major financial instruments classified as Level 3.

(In millions of Korean won)

Classification	Fair value	Valuation technique	Level 3 inputs	Input range (Weighted average)
Financial assets at fair value th	rough other con	prehensive income		
			Permanent growth rate	-1.0%~1.0%(0%)
Maltani	₩9,551	Discounted cash flow	Weighted average cost of capital	9.8%~11.8%(10.8%)
			Permanent growth rate	-1.0%~1.0%(0%)
Samsung Venture Investment	12,754	Discounted cash flow	Weighted average cost of capital	16.6%~18.6%(17.6%)
Corning Incorporated convertible preference	3,060,936	Trinomial model	Risk-adjusted discount rate	5.6%~7.6%(6.6%)
shares	, ,		Price volatility	21.4%~27.4%(24.4%)
Long-term other payables				
Contingent financial liability	2,445	Probability-weighted discounted cash flow	Applicable probability rate	50%

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(4) Changes in Level 3 instruments:

(In millions of Korean won)		2020		2019
Financial Assets				
Balance as of January 1	₩	7,407,684	₩	7,165,466
Acquisitions		556,615		1,060,277
Disposals		(1,134,528)		(1,330,213)
Amount recognized in profit or loss		(22,955)		2,877
Amount recognized in other comprehensive income		(910,116)		341,144
Others		122,072		72,050
Balance as of March 31	₩	6,018,772	₩	7,311,601
(In millions of Korean won)		2020		2019
Financial Liabilities				
Balance as of January 1	₩	2,316	₩	14,502
Repayment		-		-
Amount recognized in profit or loss		-		(11,244)
Others		129		122
Balance as of March 31	₩	2,445	₩	3,380

(5) Sensitivity analysis for recurring fair value measurements categorized within Level 3

Sensitivity analysis of financial instruments is performed to measure favorable and unfavorable changes in the fair value of financial instruments which are affected by the unobservable parameters, using a statistical technique. When the fair value is affected by more than two input parameters, the amounts represent the most favorable or unfavorable.

The results of the sensitivity analysis for effect on profit or loss (before tax amount for other comprehensive income or loss) from changes in inputs for major financial instruments which are categorized within Level 3 and subject to sensitivity analysis are as follows:

(In millions of Korean won)	Favorable changes				Unfavorable changes			
Classification	Profit or loss		F	Equity	Profit or loss		Equity	
Financial assets at fair value through other comprehensive income ¹	₩	-	₩	240,850	₩	- ₩	(134,452)	

¹ For equity securities, changes in fair value are calculated with the correlation between growth rate (-1%~1%), volatility (21.4%~27.4%) and discount rate, which are significant unobservable inputs.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

26. Segment Information

(A) Operating segment information

The chief operating decision-maker has been identified as the Management Committee. The Company determines operating segments based on the units reported to the Management Committee. The Management Committee reviews the operating profits of each operating segment in order to assess performance and to make strategic decisions regarding the allocation of resources to the segment.

The operating segments are product-based and are identified based on the internal organization and revenue streams. As of the reporting date, the operating segments are comprised of CE, IM, Semiconductor, DP, Harman, and others.

The segment information for each reporting period such as depreciation, amortization of intangible assets, and operating profit is prepared after the allocation of internal transaction adjustments. Total assets and liabilities of each operating segment are excluded from the disclosure as these have not been provided regularly to the Management Committee.

(1) For the three month period ended March 31, 2020

	CE CE		DS			**	m . al	Intercompany	Consolidated	
(In millions of Korean won)	CE	IM	Total ¹	Semiconductor	DP	Harman	Total ¹	elimination	Consolidated	
Total segment revenue	₩ 22,412,580	₩ 55,636,152	₩ 48,240,701	₩ 33,482,032	₩ 14,131,280	₩ 2,379,844	₩129,133,117	₩(73,807,939)	₩ 55,325,178	
Intercompany revenue	(12,257,561)	(29,632,070)	(24,108,856)	(15,837,754)	(7,543,148)	(278,561)	(73,807,939)	73,807,939	-	
Net revenue ²	10,155,019	26,004,082	24,131,845	17,644,278	6,588,132	2,101,283	55,325,178	-	55,325,178	
Depreciation	136,686	266,736	5,831,896	4,232,637	1,593,050	90,433	6,591,167	-	6,591,167	
Amortization	14,121	352,839	381,082	268,475	110,134	58,890	814,438	-	814,438	
Operating profit	465,298	2,649,561	3,719,818	3,992,686	(286,866)	(187,615)	6,447,345	-	6,447,345	

¹ Other operating segments are not separately disclosed.

(2) For the three month period ended March 31, 2019

	own!	IM DS H				Intercompany				
(In millions of Korean won)	CE ¹	IM	Total ¹	Semiconducto r	DP	Harman	Total ²	elimination	Consolidated	
Total segment	₩ 23,186,018	₩ 58,772,191	₩ 39,490,740	₩ 26,122,067	₩ 12,666,239	₩ 2,610,769	₩ 124,429,243	₩(72,043,697)	₩ 52,385,546	
Intercompany revenue	(13,018,260)	(31,571,920)	(18,875,370)	(11,649,659)	(6,541,836)	(416,033)	(72,043,697)	72,043,697	-	
Net revenue ³	10,167,758	27,200,271	20,615,370	14,472,408	6,124,403	2,194,736	52,385,546	-	52,385,546	
Depreciation	140,954	312,732	6,124,908	4,457,826	1,657,730	76,212	6,840,816	-	6,840,816	
Amortization	12,231	25,139	116,865	88,215	26,873	54,830	254,728	-	254,728	
Operating profit	510,212	2,274,288	3,536,143	4,122,391	(560,742)	7,997	6,233,282	-	6,233,282	

¹ Segment information has been restated due to the reclassification of Healthcare and Medical Equipment business to CE segment.

² Segment net revenue includes intersegment revenues.

² Other operating segments are not separately disclosed.

³ Segment net revenue includes intersegment revenues.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

(B) Regional information

The regional segment information provided to the Management Committee for the reportable segments as of and for the three month period ended March 31, 2020 and 2019 is as follows:

(1) As of and for the three month period ended March 31, 2020

(In millions of Korean won)	Korea	rea America Europe		Asia and Africa	China	Intercompany elimination	Consolidated	
Net segment revenue	₩ 7.887.604	₩ 18.260.472	₩ 10.938.825	₩ 9.031.899	₩ 9.206.378	₩ -	₩ 55,325,178	
Non-current assets ¹	100,080,351	10,619,235	6,777,345	11,220,041	14,355,275	(461,880)	142,590,367	

¹ Total of non-current assets other than financial instruments, deferred tax assets, and investments in associates and joint ventures.

(2) As of and for the three month period ended March 31, 2019

(In millions of Korean won)	Korea A		America	Eurone		Asia and Africa	('hina		Intercompany elimination		Consolidated		
Net segment revenue	₩	7,317,068	₩	16,714,108	₩	10,238,013	₩	10,243,197	₩	7,873,160	₩	_	₩ 52,385,546
Non-current assets ¹		93,176,763		10,502,443		6,441,171		11,997,509		9,520,207	(3	77,705)	131,260,388

¹ Total of non-current assets other than financial instruments, deferred tax assets, and investments in associates and joint ventures.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

27. Related Party Transactions

(A) Sale and purchase transactions

Sale and purchase transactions with related parties for the three month period ended March 31, 2020 and 2019, are as follows:

		2020							
(In millions of Korean won)	Name of company ¹	Sales		-	Disposal of non- current assets		Purchases		ase of non- ent assets
	Samsung SDS	₩	52,378	₩	-	₩	416,559	₩	111,142
	Samsung Electro-Mechanics		23,990		-		534,751		-
Associates and	Samsung SDI		25,575		272		144,517		19,468
Joint Ventures	Cheil Worldwide		24,556		-		189,356		-
	Other		367,398		29		2,447,147		31,394
	Total (Associates and Joint ventures)	₩	493,897	₩	301	₩	3,732,330	₩	162,004
	Samsung C&T	₩	13,774	₩	417	₩	83,843	₩	257,236
Other related parties	Other		74,517		-		269,682		58,052
parties	Total (Other related parties)	₩	88,291	₩	417	₩	353,525	₩	315,288
	Samsung Engineering	₩	2,343	₩	-	₩	76	₩	69,182
Other ²	S-1		4,655		-		102,334		4,428
Otner-	Other		26,734		-		51,298		4,655
	Total (Other)	₩	33,732	₩	-	₩	153,708	₩	78,265

¹ Transactions with separate entities that are related parties of the Company.

² Although these entities are not related parties of the Company in accordance with *Korean IFRS 1024*, they belong to the same large enterprise group in accordance with the Monopoly Regulation and Fair Trade Act.

		2019							
(In millions of Korean won)	Name of company ¹		Sales	-	nl of non- nt assets	P	urchases		ase of non- ent assets
	Samsung SDS	₩	43,102	₩	-	₩	526,607	₩	81,606
	Samsung Electro-Mechanics		28,107		-		633,508		-
Associates and	Samsung SDI		40,913		16,061		158,504		1,624
Joint Ventures	Cheil Worldwide		23,240		-		207,185		-
Joint Ventures	Other		265,001		-		2,631,483		52,768
	Total (Associates and Joint ventures)	₩	400,363	₩	16,061	₩	4,157,287	₩	135,998
04 14 1	Samsung C&T	₩	28,455	₩	-	₩	73,908	₩	1,007,056
Other related parties	Other		44,752		-		276,973		44,210
parties	Total (Other related parties)	₩	73,207		-	₩	350,881	₩	1,051,266
	Samsung Engineering	₩	1,083		-	₩	2,162	₩	473,918
0412	S-1		6,852		-		97,022		823
Other ²	Other		38,062		-		42,005		27,870
	Total (Other)	₩	45,997	₩	-	₩	141,189	₩	502,611

¹ Transactions with separate entities that are related parties of the Company.

² Although these entities are not related parties of the Company in accordance with *Korean IFRS 1024*, they belong to the same large enterprise group in accordance with the Monopoly Regulation and Fair Trade Act.

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(B) Balances of receivables and payables

Balances of receivables and payables arising from sales and purchases of goods and services as of March 31, 2020 and December 31, 2019 are as follows:

			March 31, 2020					
(In millions of Korean won)	Name of company ¹	Receivables		Payables ²				
	Samsung SDS	₩	48,565	₩	564,362			
	Samsung Electro-Mechanics		20,176		279,518			
Associates and Joint	Samsung SDI		116,877		107,432			
ventures	Cheil Worldwide		23,954		361,221			
	Other		334,131		1,016,868			
	Total (Associates and Joint ventures)	₩	543,703	₩	2,329,401			
	Samsung C&T	₩	223,113	₩	1,099,350			
Other related parties	Other		32,521		168,077			
	Total (Other related parties)	₩	255,634	₩	267,427			
	Samsung Engineering	₩	2,368	₩	170,223			
0.13	S-1		2,927		37,235			
Other ³	Other		9,100		49,903			
	Total (Other)	₩	14,395	₩	257,361			

¹ Balances due from and to separate entities that are related parties of the Company.

³Although these entities are not related parties of the Company in accordance with *Korean IFRS 1024*, they belong to the same large enterprise group in accordance with the Monopoly Regulation and Fair Trade Act.

			December	ecember 31, 2019		
(In millions of Korean won)	Name of company ¹	Rece	ivables	Payables ²		
	Samsung SDS	₩	19,723	₩	636,169	
	Samsung Electro-Mechanics		2,457		207,339	
Associates and Joint	Samsung SDI		103,809		135,048	
ventures	Cheil Worldwide		423		415,785	
	Other		177,491		997,632	
	Total (Associates and Joint ventures)	₩	303,903	₩	2,391,973	
	Samsung C&T	₩	30,535	₩	,215,575	
Other related parties	Other		18,884		170,130	
	Total (Other related parties)	₩	49,419	₩	1,385,705	
	Samsung Engineering	₩	2,734	₩	629,584	
Other ³	S-1		1,464		50,498	
Otner	Other		12,211		115,072	
	Total (Other)	₩	6,409	₩	795,154	

¹ Balances due from and to separate entities that are related parties of the Company.

² Payables and others include lease liabilities.

² Payables and others include lease liabilities.

³ Although these entities are not related parties of the Company in accordance with *Korean IFRS 1024*, they belong to the same large enterprise group in accordance with the Monopoly Regulation and Fair Trade Act.

NOTES TO THE INTERIM CONSOLIDATED FINANCIAL STATEMENTS

- (C) For the three month period ended March 31, 2020, the Company invested \(\mathbb{W} \) 12,924 million in associates and joint ventures (for the three month period ended March 31, 2019: \(\mathbb{W} \) 3,544 million). For the three month period ended March 31, 2020 and 2019, there were no recovered amount, from associates and joint ventures.
- (D) For the three month period ended March 31, 2020, the Company declared $\mathbb W$ 415,286 million of dividends (for the three month period ended March 31, 2019: $\mathbb W$ 415,512 million) to related parties. As of March 31, 2020, $\mathbb W$ 415,286 million of dividends remain unpaid. In addition, for the three month period ended March 31, 2020 and 2019, the Company declared $\mathbb W$ 31,436 million of dividends to the entities that are not related parties of the Company in accordance with *Korean IFRS 1024*, but belong to the same conglomerate according to the Monopoly Regulation and Fair Trade Act. As of March 31, 2020, $\mathbb W$ 31,436 million of dividends remain unpaid.
- (E) For the three month period ended March 31, 2020 and 2019, the Company has not entered into any lease agreement with its related parties, and lease payments to the related parties amounted to ₩ 13,449 million and ₩ 4,297 million.

(F) Key management compensation

The compensation paid or payable to key management (executive directors) for their services for the three month period ended March 31, 2020 and 2019 consists of:

(In millions of Korean won)		2020		2019	
Short-term employee benefits	₩	2,147	₩		1,673
Post-employment benefits		229			351
Other long-term employee benefits		1,716			1,612