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## LEVERAGING ON TECHNOLOGIES IN PLANTATION DEVELOPMENT



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Tuan Haji  
Hashim Haji  
Bojet

## editorial



**J**he wood-based sector of Sarawak experienced a downward trend since early 2020. Tight supply of logs, rising costs of production, uncompetitive pricing, trade barriers such as imposition of anti-dumping on plywood products into South Korea and uncertainties of market and world economy are among factors affecting this sector.

The export value of timber and timber products for the period of January to October 2020 dropped by 19 percent to RM3.1 billion compared with RM3.8 billion during the corresponding period last year. This

was attributed by the decline in export volume of timber and timber products by 18% to 2.2 million m<sup>3</sup> from 2.6 million m<sup>3</sup> during the same period last year.

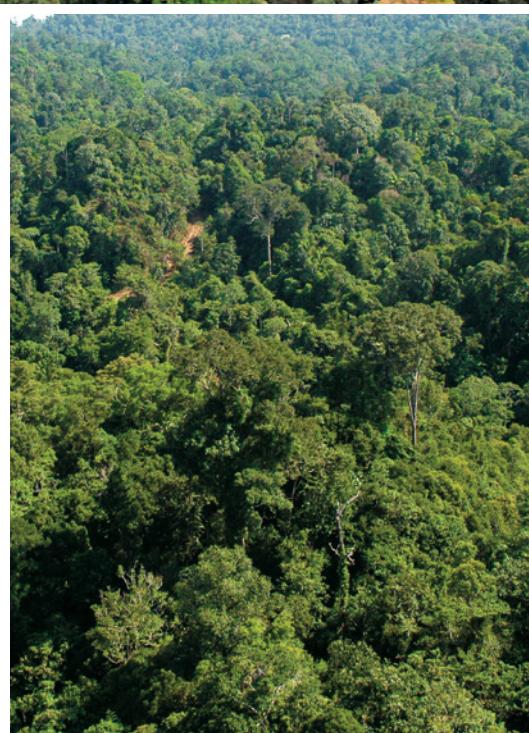
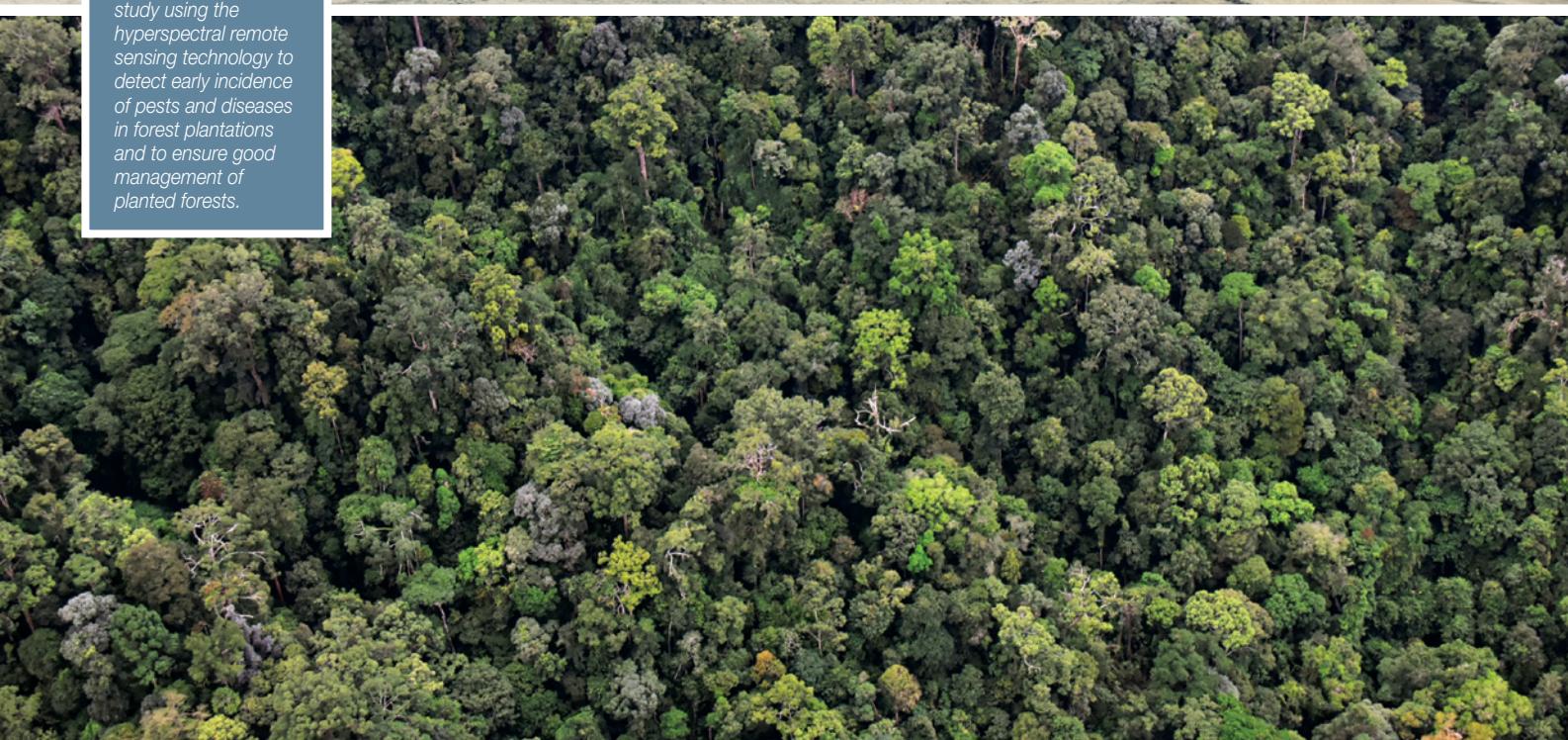
Plywood which was the major export item accounted for RM1.6 billion. This represented a decline of 16 percent from RM1.9 billion during the same period in 2019. Plywood contributed 52 percent of the total export value of Sarawak timber and timber products. The export volume, however, declined by 10 percent at 847,141 m<sup>3</sup> during the first ten months of 2020 compared with 941,217 m<sup>3</sup> during the corresponding period in 2019. The other major export items were logs which accounted for RM407 million. This marked a decrease of 32 percent from RM597 million during the same period last year. This was followed by sawn timber which slid by 23 percent to RM377 million from RM491 million during the same period in 2019.

Japan being the main market for timber and timber products from Sarawak accounted for 48 percent and valued at RM1.5 billion. This represented a decrease of 13 percent from RM1.8 billion during the same period in 2019. This was followed by The Middle East which accounted for 11 percent and valued at RM337 million and India which contributed 8 percent and valued at RM255 million.

Sarawak timber export performance is expected to decrease by 18 percent in 2020 to RM3.7 billion from RM4.5 billion last year. This is mainly due to the impact of Covid-19 pandemic to the current global economy.



Forest Department of Sarawak is conducting a study using the hyperspectral remote sensing technology to detect early incidence of pests and diseases in forest plantations and to ensure good management of planted forests.



The Right Honourable Datuk Patinggi Abang Abdul Rahman Johari bin Al-Marhum Tun Abang Haji Openg, Chief Minister of Sarawak



# LEVERAGING ON TECHNOLOGIES IN PLANTATION DEVELOPMENT

**T**he use of advanced technologies is vital to bring positive changes to the forestry sector particularly planted forests. Technology like hyperspectral is imperative to monitor pests and diseases in huge plantations. It is also crucial in mapping of soil type and volume prediction. In the downstream industry, advanced technology is essential to process logs from planted forests to ensure optimum utilisation.

The Right Honourable Datuk Patinggi Abang Abdul Rahman Johari bin Al-Marhum Tun Abang Haji Openg, Chief Minister of Sarawak said the Forest

Department of Sarawak is conducting a study using the hyperspectral remote sensing technology to detect early incidence of pests and diseases in forest plantations and to ensure good management of planted forests.

He encouraged industry players to invest in new technology to process logs from planted forests in order to add value to the timber. "Please explore the new technology for better utilisation and diversification of timber products. For the past years, various testings were conducted on planted timber like Acacia, Batai (*Falcataria moluccana*), *Eucalyptus globulus* and many more either on its properties or the end products that

could be developed using logs from planted forests. I would like to urge the industries together with government agencies like Forest Department and STIDC and local universities to intensify R&D on product diversification," he said.

The Chief Minister graced the opening ceremony of the Industrial Forest Plantation Seminar 2020 with the theme "Advancing Sustainable Forestry Through Aggressive Industrial Forest Plantation".

The seminar was held on 30 October 2020 in Kuching, Sarawak featuring presenters and participants from China, Indonesia and Malaysia.





Tree Seedlings

# FOREST PLANTATION CERTIFICATION & THE WAY FORWARD

In 2019, the State Government endorsed the forest management certification policy requiring all long-term forest timber licensees to be certified by 2022. The policy aimed to ensure sustainable supply of forest resources. In tandem with this, all forest plantations in Sarawak were encouraged to undertake forest plantation management certification as reflected in the Policy Direction on Industrial Forest Plantation in Sarawak. Presently, 66,873 hectares of Forest Plantation Management Units (FPMUs) were certified under Malaysian Criteria and Indicators for

Forest Management Certification (Forest Plantation) by SIRIM QAS International.

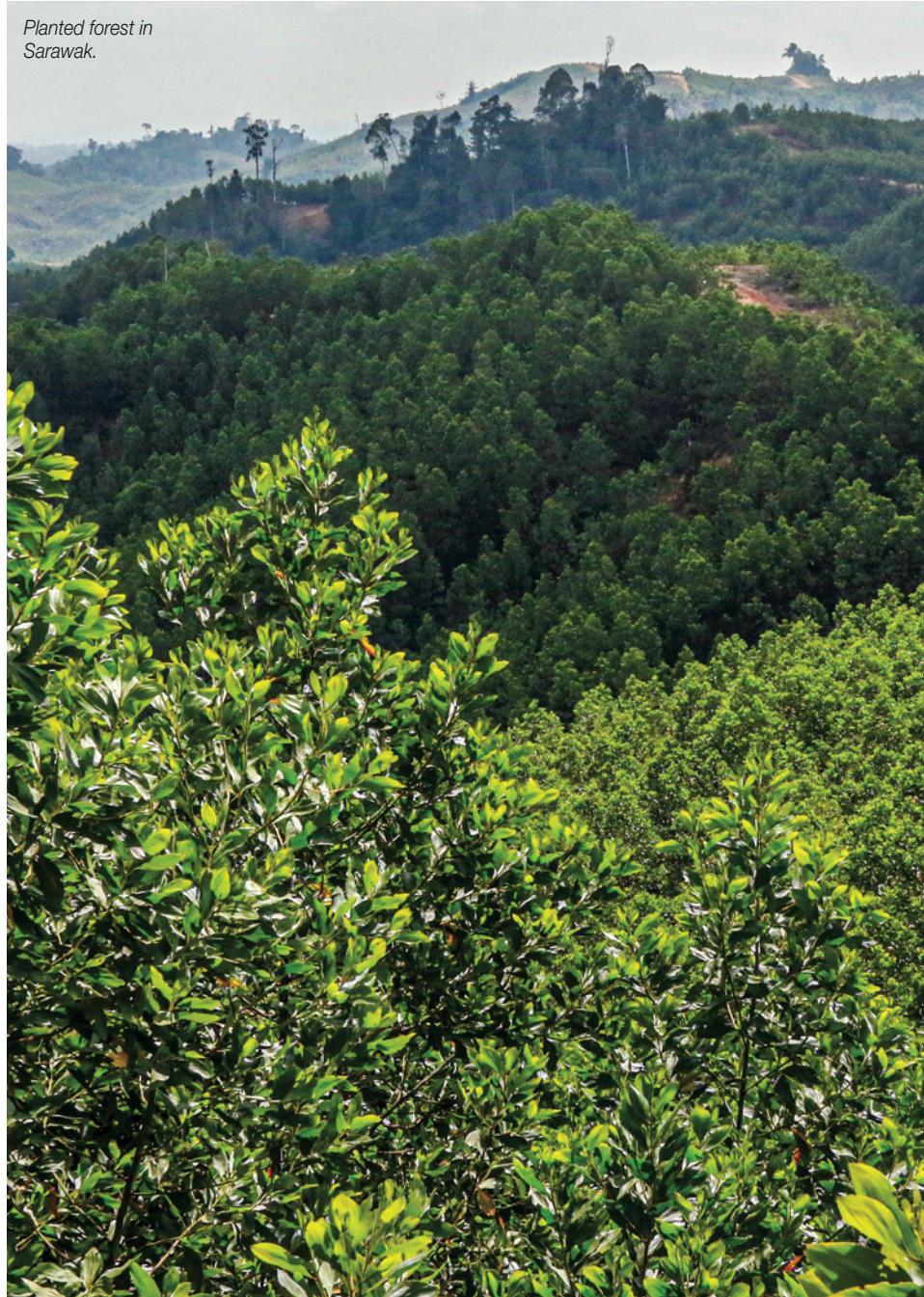
The Right Honourable Abang Abdul Rahman Johari bin Al-Marhum Tun Abang Haji Openg, Chief Minister of Sarawak commended owners of the certified FPMUs namely Lana, Segan and Marudi of Samling group and Penyuan and Masama of Shin Yang group for their achievement and hoped that other plantation owners would follow suit. He emphasised that certification is imperative to ensure good plantation management practices in order to boost customers' confidence.

According to him, development of industrial forests must be enhanced. To meet the increasing demands for raw materials, degraded areas such as idle land, shifting cultivation areas and Native Customary Rights (NCR) land could be turned into planted forests through joint-venture with land owners and local communities. Non-timber trees including bamboo and rattan could also be planted.

"The planting of other fast-growing indigenous species such as Gerunggang (*Cratoxylum arborescens*) and Engkabang Jantong (*Shorea macrophylla*) could be



Tree Seedlings



Planted forest in Sarawak.

explored besides looking into value-added and product diversification. Marketing and promotion of timber and timber products are crucial. STIDC plays pivotal role to facilitate the industrial forest industry by promoting and marketing planted forest products," he said.

He added that the State Government aims to collaborate with Universiti Putra Malaysia, Bintulu Campus and University College of Technology Sarawak (UCTS) to undertake forestry research in Sarawak by leveraging on their expertise and facilities while Forest Department could play a role to co-ordinate the R & D activities.



Natural forest of Sarawak.

# HUGE MARKET POTENTIAL FOR ENGINEERED WOOD PRODUCTS



Datu Haji Len  
Talif Salleh

**D**atu Haji Len Talif Salleh, Assistant Minister of Urban Planning, Land Administration and Environment of Sarawak said engineered wood business started in Sarawak in 1959 with the establishment of the first plywood mill in Selalang. The mill processed raw materials from natural rainforests. He was speaking at the official opening ceremony of the Seminar On Engineered Timber Products 2020.

Engineered wood is commonly used globally as part of building components. In Malaysia, it is used by Crop For Future, Semenyih as dorm structure. In Sarawak, however, the use of engineered wood for structural buildings is yet to be fully explored.

STIDC works closely with Universiti Teknologi MARA (UiTM) to enhance knowledge and technologies as well as to develop and promote engineered wood products.

STIDC also collaborates with Woodsfield Glulam Sendirian Berhad to undertake research and development as well as to produce engineered wood products using raw materials from planted forests such as Acacia mangium, Eucalyptus and many more.

Industry players and stakeholders were urged to pool their expertise to ensure that wood remains as the preferred material in varied sectors and the wood-based sector continues as the mainstay of the state's economy for the next 50 to 100 years.

The world market of engineered wood products is valued at USD41.27 billion in 2022. It offers a huge market potential waiting to be fully tapped.



American Cherry Classic •

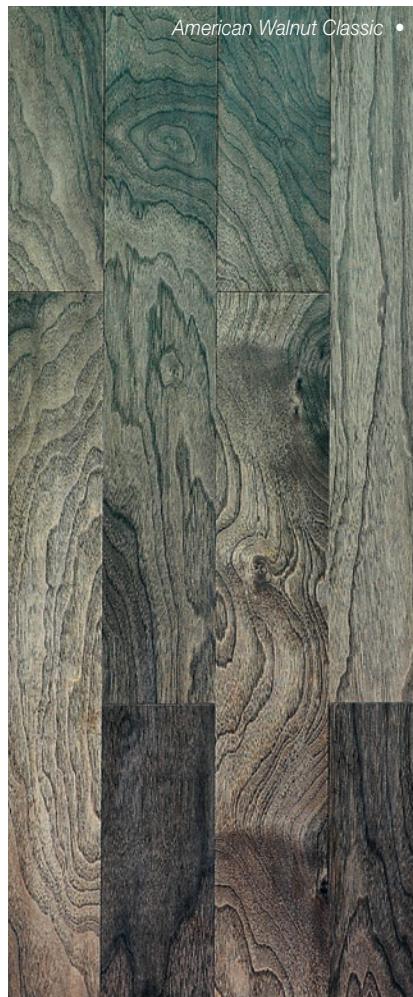
Kembang Semangkuk (KSK) Classic •

## EXAMPLES OF ENGINEERED WOOD PRODUCTS

American Royal Oak •



American Walnut Classic •



American White Oak Classic •



Chunteh Classic •



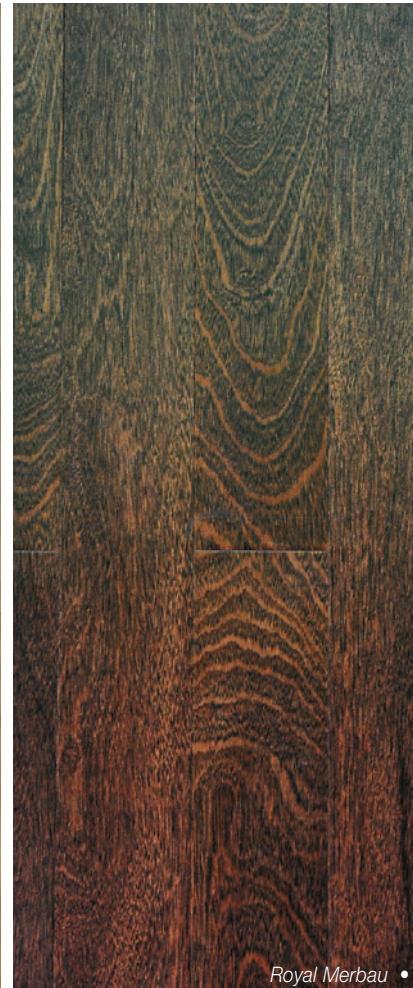
Merbau Classic •



Royal Kembang Semangkuk (KSK) •



Royal Merbau •





The Honourable Datu Haji Len Talif Salleh (fourth left) officiating the Seminar on Engineered Timber Products 2020.

# SEMINAR ON ENGINEERED TIMBER PRODUCTS

**C**oncerted efforts were made by STIDC to promote engineered wood products. This was evident by a Seminar on Engineered Timber Products jointly organised with Universiti Technology Mara (UiTM) in Kuching, Sarawak on 7 December 2020.

The seminar aimed to promote engineered timber products as construction structure and to provide guidance to designers and architects in choosing wood products for construction components.

The seminar featured five papers by experts of varied fields besides a keynote paper on the current status of the timber industry in Sarawak by Mr. Nicholas Andrew Lisse of STIDC.

Professor Dr. Zakiah Ahmad of the Institute of Infrastructure Engineering and Sustainable Management shared the overview of engineered wood products in relation to mass timber construction.

Mr. Paul Valentine of Sarawak Planted Forest Sendirian Berhad highlighted a topic on the potential of logs from planted forests for future construction industry.

Ir Muhd Salmizi Ja'afar, of UiTM Shah Alam provided insight into MS544 and Eurocode 5.

Dr Norshariza Mohamad Bhkari of Institute for Infrastructure Engineering & Sustainable Management spoke about the potential of Glued Laminated Timber from Malaysian Tropical Hardwood as Railway Sleepers.

Mdm. Yuanti Mohamed of Construction Industry Development Board (CIDB) presented a topic concerning the current scenario and challenges on the application of engineered timber products in Sarawak.

The seminar provided a platform for policy makers, industry players and stakeholders to strengthen business networking and to share information and expertise on wood utilisation for construction structure and the best practices related to it.

It is hoped that the participants would leverage on the technical expertise of the distinguished speakers and the new technology in bringing the construction industry to greater height.



# CHINESE INVESTOR SHOWING KEEN INTEREST IN TANJUNG MANIS

**X**uzhou Shenghe Wood Co Ltd, a timber and furniture company from China showed keen interest to invest in Tanjung Manis.

Mr. Wang Fuhua, president of the company conveyed his company's plans to the Deputy Chief Minister of Sarawak, Datuk Amar Haji Awang Tengah Ali Hasan via online meeting recently.

Mr. Wang said Tanjung Manis is an ideal place for investment due to its strategic location and availability of the basic infrastructure such as roads, electricity and water supply as well as ports.

By investing in Tanjung Manis, he said his company could participate in the Sarawak Furniture Park project.

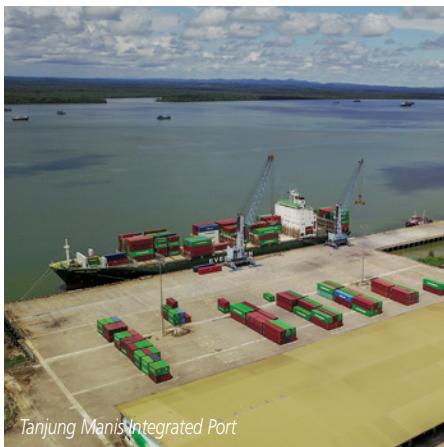
Meanwhile, Datuk Amar Haji Awang Tengah said Sarawak aims to achieve

RM6 billion from furniture export by 2030. Concerted efforts were made to ensure conducive investment environment.

This was evident by the government's efforts to ensure sustainable supply of raw materials through planted forests. The government is also promoting bamboo plantation besides strengthening the Sarawak Young Designers (SayD'SignersSarawak) programme with Institut Teknologi Bandung (ITB), Universiti



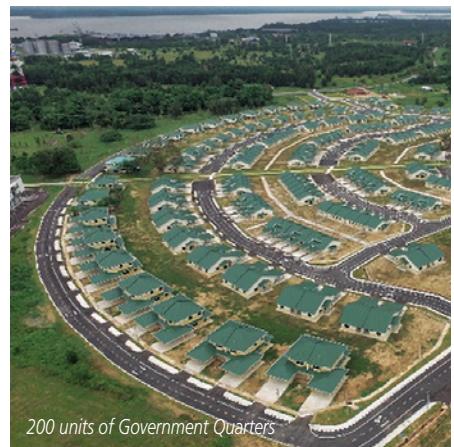
Datuk Amar Haji Awang Tengah (second right) having a light moment during the meeting. Also seen are the Assistant Minister of International Trade and Industry, Industrial Terminal and Entrepreneur Development, Datuk Malcolm Mussen Lamoh (third right) and Tuan Haji Hashim Haji Bojet (right).



Tanjung Manis Integrated Port



Tanjung Manis Integrated Deep Sea Fishery Port



200 units of Government Quarters

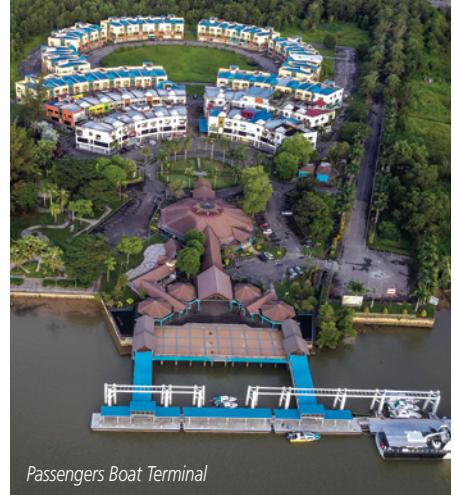
Malaysia Sarawak (Unimas) and Milan Designers.

Datuk Amar Haji Awang Tengah said the company's venture into Sarawak would make them one of the anchor companies to realise the Furniture Park projects in Kuching, Bintulu and Tanjung Manis.

He added that the state government allows the recruitment of foreign workers to encourage the development

of value-added products particularly furniture.

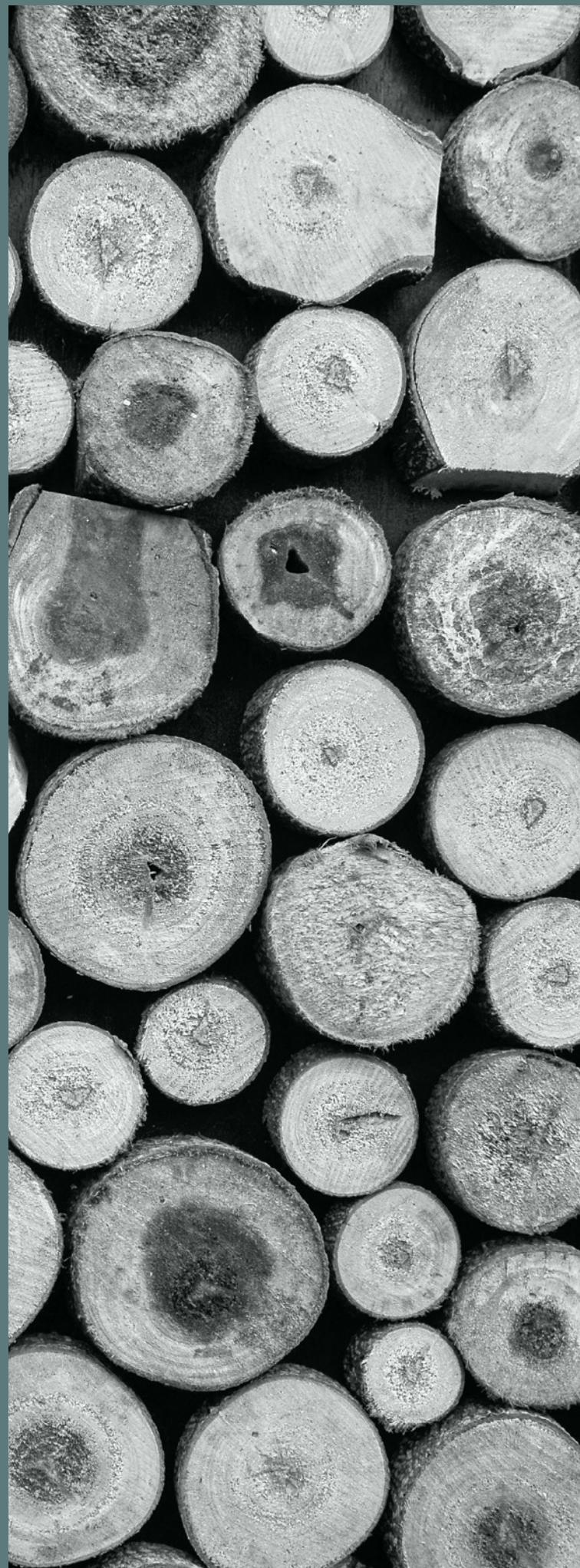
He encouraged organisers to use the Tanjung Manis Timber Training Centre for trainings such as furniture making, wood carving and many more.

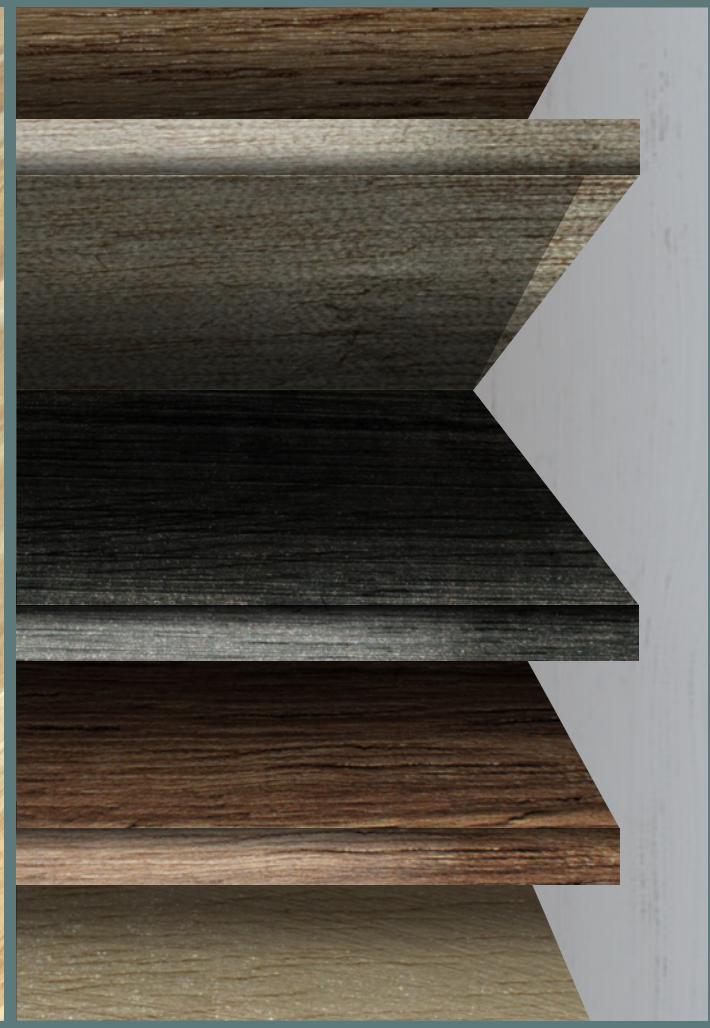


Passengers Boat Terminal



Palm Oil Industrial Cluster & Central Oil Distribution Terminal and Oil, Gas & Chemical Jetty





# TRADE STATISTICS SARAWAK

**TABLE 1**

EXPORT SUMMARY OF TIMBER AND TIMBER PRODUCTS FROM SARAWAK

PRODUCTS	2020 <sup>p</sup> January - September			2019 <sup>a</sup> January - September			% Change 2020 / 2019	
	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume	Value
PLYWOOD	765,798	1,485,836	52.79	853,608	1,756,176	50.59	(10.29)	(15.39)
LOGS	782,051	377,170	13.40	993,128	546,821	15.75	(21.25)	(31.02)
SAWNTIMBER	200,686	344,567	12.24	241,872	451,382	13.00	(17.03)	(23.66)
FIBREBOARD	128,646	222,740	7.91	140,604	263,019	7.58	(8.51)	(15.31)
VENeer	26,048	36,256	1.29	51,670	71,221	2.05	(49.59)	(49.09)
DOORSKIN	21,071	47,536	1.69	28,556	62,350	1.80	(26.21)	(23.76)
LAMINATED BOARD/FLOORING	4,135	14,959	0.53	7,141	29,771	0.86	(42.10)	(49.75)
PARTICLEBOARD	22,145	15,200	0.54	34,710	22,434	0.65	(36.20)	(32.25)
DOOR PANELS & FRAMES	9,499	15,551	0.55	9,112	17,343	0.50	4.25	(10.33)
MOULDING	4,680	8,773	0.31	5,578	12,632	0.36	(16.10)	(30.55)
OTHER PRODUCTS*	26,391	32,765	1.16	23,730	32,437	0.93	11.21	1.01
OTHER PRODUCTS**[Units]	2,007,681	32,655	1.16	2,454,694	33,065	0.95	(18.21)	(1.24)
OTHER PRODUCTS***[Kgm]	42	8	0.00	2,962	58	0.00	(98.60)	(87.02)
BRIQUETTE & CHARCAOL (Tonne)	7,985	17,345	0.62	12,272	27,125	0.78	(34.94)	(36.06)
WOOD PELLETS [Tonne]	3,635	1,988	0.07	26,499	13,026	0.38	(86.28)	(84.74)
WOODCHIP [Tonne]	296,304	161,488	5.74	269,155	132,659	3.82	10.09	21.73
<b>TOTAL (m<sup>3</sup>) (RM)</b>	<b>1,991,151</b>	<b>2,814,837</b>	<b>100</b>	<b>2,389,709</b>	<b>3,471,520</b>	<b>100</b>	<b>(16.68)</b>	<b>(18.92)</b>

**\*OTHER TIMBER PRODUCTS:**

- Barecore
- Blockboard
- Chopping Board
- Core Plugs/Pellets
- Densified Wood
- Dowels
- Finger jointed
- Lamin Board
- Laminated beam/post
- Laminated Veneer Lumber (LVL)
- Railways sleepers
- Wooden panels

- Wooden Handle
- Wooden Fence
- Wooden lattice
- Wooden stakes
- Wooden Flooring

**\*\*OTHER TIMBER PRODUCTS:**

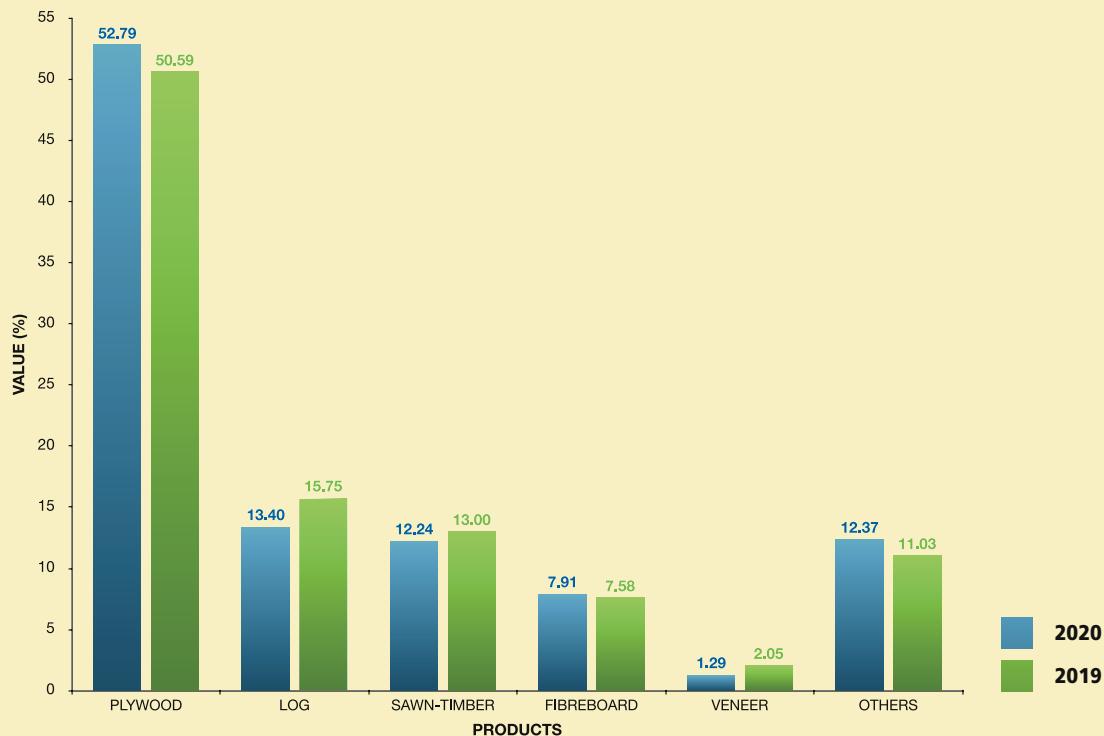
- Furniture & Furniture parts
- Wooden Frame
- Wooden Pallets

**\*\*\*OTHER TIMBER PRODUCTS:**

- Handicraft
- Door Panel & Frames(Kgm)

## Notes:

- > Fibreboard include MDF and HDF
- > Total of volume (m<sup>3</sup>) does not includes woodchips (tonne) and other product (units)
- > a = actual data & total does not include application/permit to transport goods within the Federation [Customs Declaration Form No.3 (CDF3)]
- > p = preliminary data & total does not include application/permit to transport goods within the Federation [Customs Declaration Form No.3 (CDF3)]

**EXPORT VALUE (%) OF MAJOR TIMBER & TIMBER PRODUCTS FROM SARAWAK (RM'000) : 2020 / 2019**

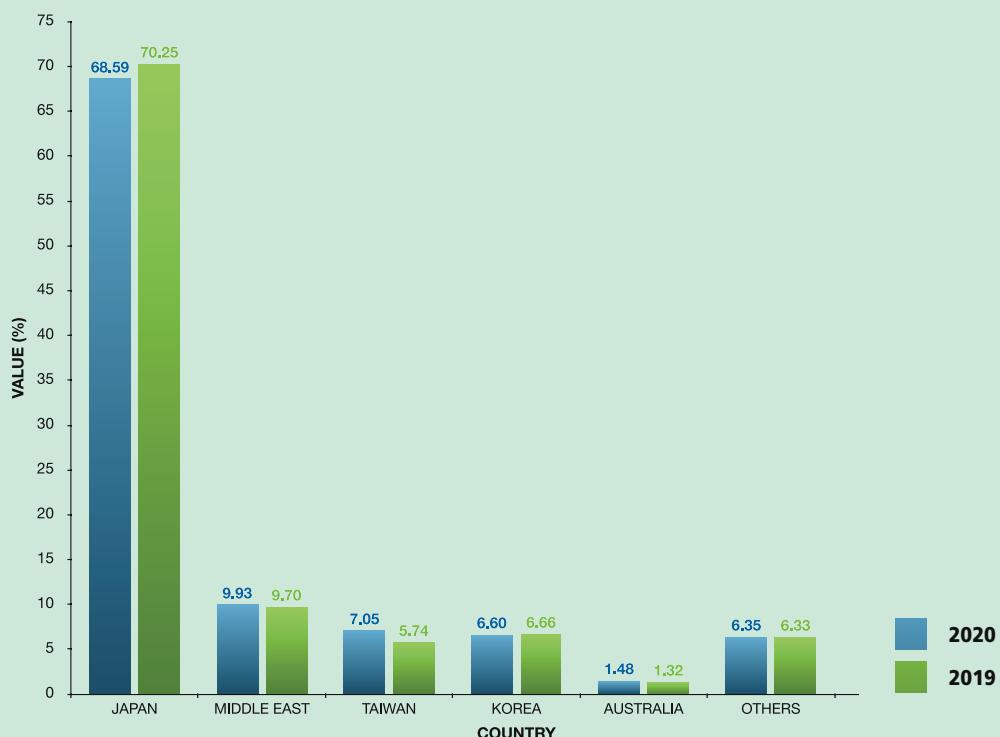
**TABLE 2**  
EXPORT OF PLYWOOD BY COUNTRY OF DESTINATIONS

DESTINATIONS	2020 <sup>b</sup> January - September			2019 <sup>a</sup> January - September			% Change 2020 / 2019	
	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume	Value
JAPAN	487,289	1,019,111	68.59	555,002	1,233,704	70.25	(12.20)	(17.39)
MIDDLE EAST	96,333	147,587	9.93	105,342	170,382	9.70	(8.55)	(13.38)
TAIWAN	68,544	104,762	7.05	62,647	100,724	5.74	9.41	4.01
KOREA	58,595	98,016	6.60	69,674	116,900	6.66	(15.90)	(16.15)
AUSTRALIA	8,838	21,994	1.48	8,924	23,258	1.32	(0.96)	(5.43)
HONG KONG	10,837	20,137	1.36	7,834	14,874	0.85	38.33	35.39
UNITED STATES	7,926	19,100	1.29	4,528	10,626	0.61	75.02	79.74
INDIA	4,750	10,405	0.70	8,280	21,171	1.21	(42.63)	(50.85)
THAILAND	4,788	10,081	0.68	6,349	13,896	0.79	(24.59)	(27.46)
MEXICO	3,768	8,106	0.55	3,398	7,840	0.45	10.90	3.39
OTHERS*	14,129	26,538	1.79	21,630	42,800	2.44	(34.68)	(37.99)
<b>TOTAL</b>	<b>765,798</b>	<b>1,485,836</b>	<b>100</b>	<b>853,608</b>	<b>1,756,176</b>	<b>100</b>	<b>(10.29)</b>	<b>(15.39)</b>

**\*OTHER DESTINATIONS:**

- BRUNEI DARUSSALAM
- CAMBODIA
- CANADA
- CHINA
- DJIBOUTI
- MALAYSIA (Peninsular or Sabah-free zone)
- MALDIVES
- MYANMAR
- NEW ZEALAND
- PAPUA NEW GUINEA
- PHILIPPINES
- PUERTO RICO
- SINGAPORE
- SOMALIA
- SOUTH AFRICA
- VIETNAM

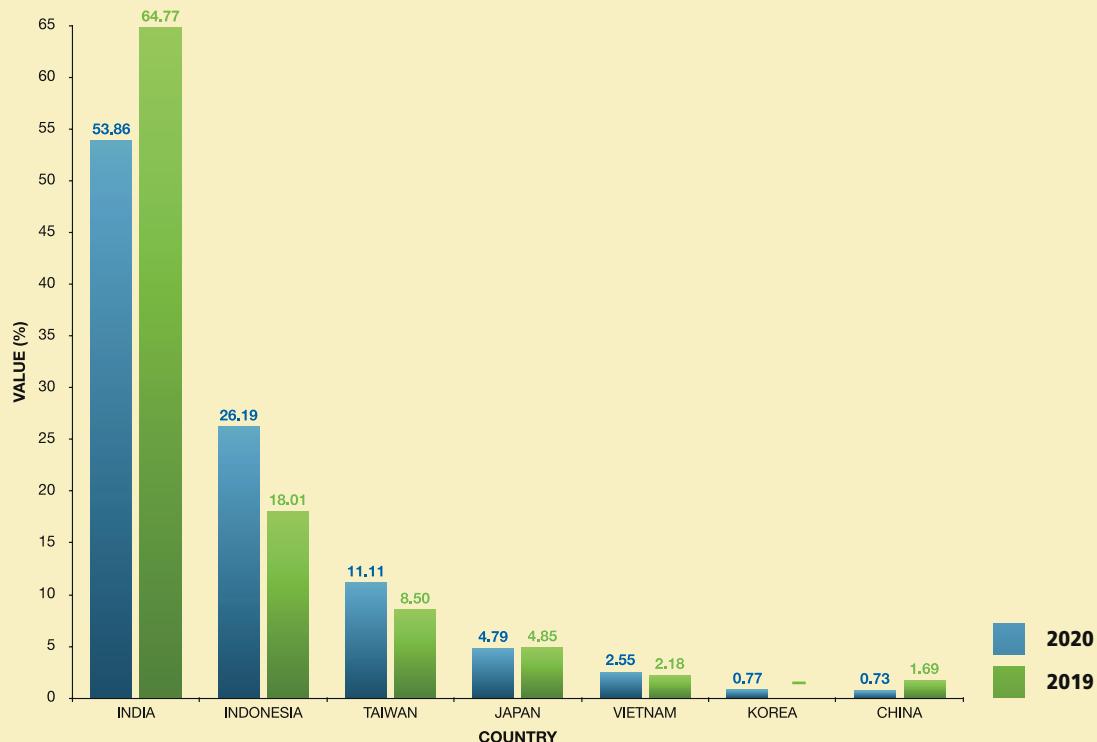
**EXPORT VALUE (%) OF PLYWOOD TO MAJOR DESTINATIONS**  
: 2020 / 2019



**TABLE 3**  
EXPORT OF LOGS BY COUNTRY OF DESTINATIONS

DESTINATIONS	2020 <sup>a</sup> January - September			2019 <sup>a</sup> January - September			% Change 2020 / 2019	
	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume	Value
INDIA	272,009	203,162	53.86	418,882	354,188	64.77	(35.06)	(42.64)
INDONESIA	413,806	98,785	26.19	462,034	98,504	18.01	(10.44)	0.29
TAIWAN	51,682	41,913	11.11	51,648	46,489	8.50	0.07	(9.84)
JAPAN	23,353	18,057	4.79	30,903	26,502	4.85	(24.43)	(31.87)
VIETNAM	13,522	9,632	2.55	16,883	11,913	2.18	(19.91)	(19.14)
KOREA	3,445	2,886	0.77	-	-	-	100.00	100.00
CHINA	4,234	2,735	0.73	12,778	9,226	2	(66.87)	(70.36)
<b>CHINA</b>	<b>782,051</b>	<b>377,170</b>	<b>100</b>	<b>993,128</b>	<b>546,821</b>	<b>100</b>	<b>(21.25)</b>	<b>(31.02)</b>

**EXPORT VALUE (%) OF LOGS TO MAJOR DESTINATIONS  
: 2020 / 2019**



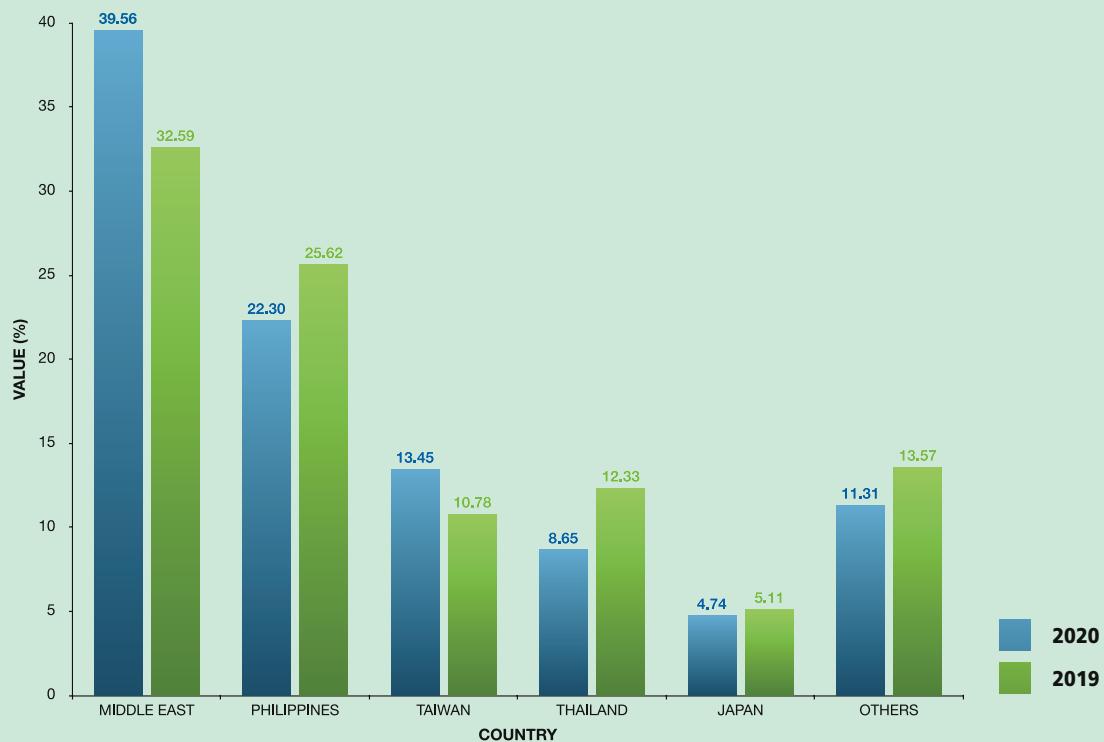
**TABLE 4**  
EXPORT OF SAWN-TIMBER BY COUNTRY OF DESTINATIONS

DESTINATIONS	2020 <sup>b</sup> January - September			2019 <sup>a</sup> January - September			% Change 2020 / 2019	
	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume	Value
MIDDLE EAST	71,106	136,298	39.56	74,829	147,093	32.59	(4.98)	(7.34)
PHILIPPINES	51,392	76,825	22.30	58,411	115,639	25.62	(12.02)	(33.57)
TAIWAN	26,947	46,343	13.45	27,328	48,645	10.78	(1.39)	(4.73)
THAILAND	22,160	29,790	8.65	39,402	55,675	12.33	(43.76)	(46.49)
JAPAN	6,472	16,338	4.74	9,156	23,069	5.11	(29.31)	(29.18)
KOREA	9,005	14,881	4.32	10,778	17,830	3.95	(16.45)	(16.54)
CHINA	5,431	9,412	2.73	9,537	13,648	3.02	(43.06)	(31.04)
SRI LANKA	2,503	5,467	1.59	1,504	2,622	0.58	66.42	108.51
INDIA	1,343	3,124	0.91	1,483	3,203	0.71	(9.44)	(2.46)
SOUTH AFRICA	854	1,517	0.44	2,601	5,412	1.20	(67.17)	(71.97)
OTHERS*	3,474	4,572	1.33	6,842	18,545	4.11	(49.23)	(75.34)
<b>TOTAL</b>	<b>200,686</b>	<b>344,567</b>	<b>100</b>	<b>241,872</b>	<b>451,382</b>	<b>100</b>	<b>(17.03)</b>	<b>(23.66)</b>

**\*OTHER DESTINATIONS:**

- AUSTRALIA
- BRUNEI DARUSSALAM
- HONG KONG
- INDONESIA
- MALAYSIA (Peninsular or Sabah-free zone)
- MALDIVES
- MAURITIUS
- PAKISTAN
- SEYCHELLES
- SINGAPORE
- UNITED STATES
- VIETNAM

**EXPORT VALUE (%) OF SAWN-TIMBER TO MAJOR DESTINATIONS  
: 2020 / 2019**

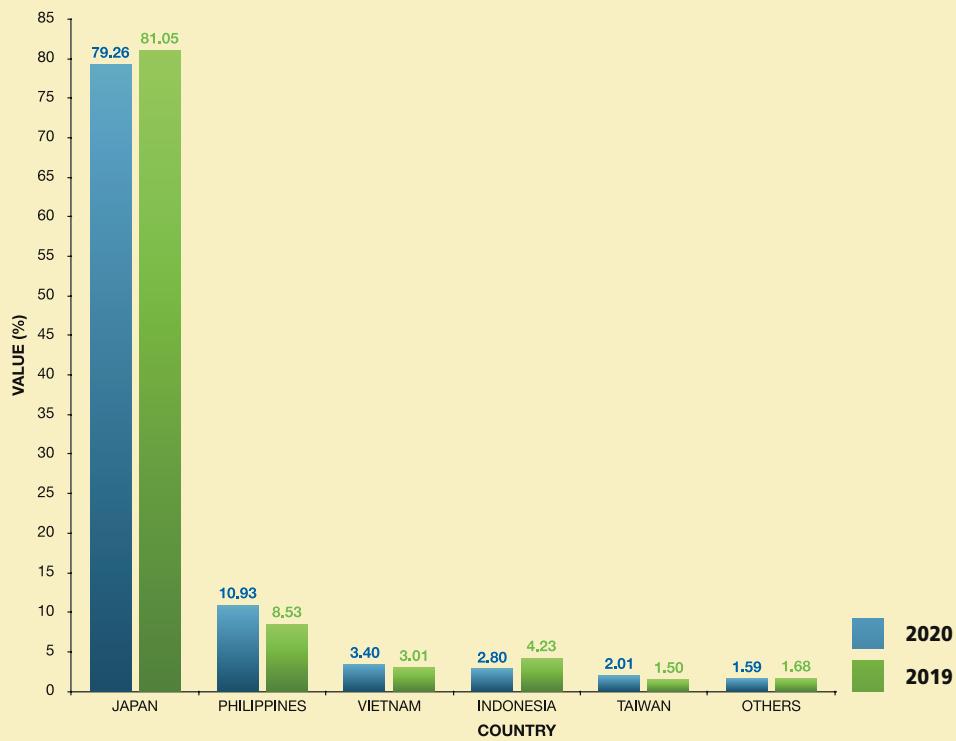


**TABLE 5**  
EXPORT OF FIBREBOARD BY COUNTRY OF DESTINATIONS

DESTINATIONS	2020 <sup>b</sup> January - September			2019 <sup>a</sup> January - September			% Change 2020 / 2019	
	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume	Value
JAPAN	101,198	176,549	79.26	111,453	213,175	81.05	(9.20)	(17.18)
PHILIPPINES	14,000	24,354	10.93	12,743	22,440	8.53	9.87	8.53
VIETNAM	4,154	7,574	3.40	3,662	7,926	3.01	13.44	(4.44)
INDONESIA	4,275	6,246	2.80	7,850	11,128	4.23	(45.54)	(43.87)
TAIWAN	2,523	4,478	2.01	2,236	3,936	1.50	12.82	13.77
KOREA	1,759	2,836	1.27	1,928	3,824	1.45	(8.75)	(25.83)
CHINA	433	344	0.15	-	-	-	100.00	100.00
BRUNEI DARUSSALAM	169	190	0.09	-	-	-	100.00	100.00
INDIA	136	168	0.08	732	589	0.22	(81.48)	(71.45)
<b>TOTAL</b>	<b>128,646</b>	<b>222,740</b>	<b>100</b>	<b>140,604</b>	<b>263,019</b>	<b>100</b>	<b>(8.51)</b>	<b>(15.31)</b>

**EXPORT VALUE (%) OF FIBREBOARD TO MAJOR DESTINATIONS**

**: 2020 / 2019**



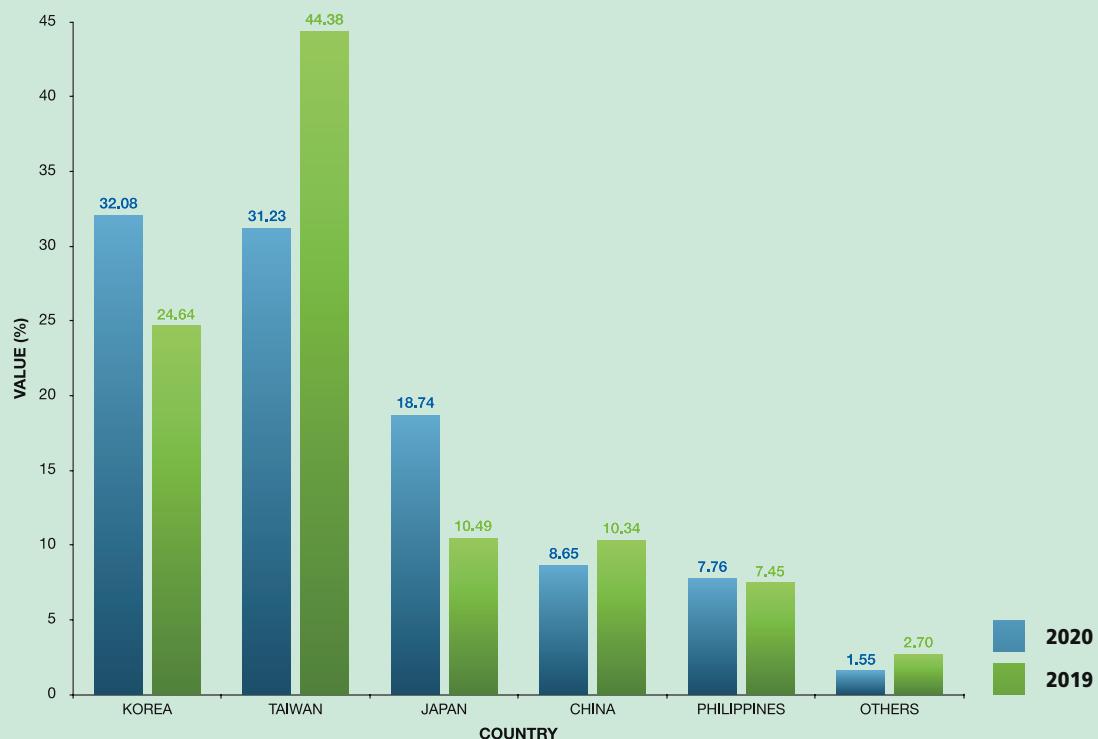
**TABLE 6**  
EXPORT OF VENEER BY COUNTRY OF DESTINATIONS

DESTINATIONS	2020 <sup>a</sup> January - September			2019 <sup>a</sup> January - September			% Change 2020 / 2019	
	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume	Value
KOREA	8,221	11,630	32.08	10,341	17,547	24.64	(20.50)	(33.72)
TAIWAN	8,870	11,324	31.23	26,932	31,608	44.38	(67.07)	(64.17)
JAPAN	3,351	6,793	18.74	3,101	7,474	10.49	8.05	(9.11)
CHINA	2,544	3,134	8.65	5,223	7,367	10.34	(51.30)	(57.45)
PHILIPPINES	2,823	2,812	7.76	5,471	5,306	7.45	(48.41)	(47.00)
AUSTRALIA	219	515	1.42	505	1,737	2.44	(56.67)	(70.36)
BRUNEI DARUSSALAM	21	47	0.13	19	50	0.07	11.22	(5.59)
OTHERS*	-	-	-	78	133	0.19	(100.00)	(100.00)
<b>TOTAL</b>	<b>26,048</b>	<b>36,256</b>	<b>100</b>	<b>51,670</b>	<b>71,221</b>	<b>100</b>	<b>(49.59)</b>	<b>(49.09)</b>

**\*OTHER DESTINATIONS:**

- INDIA

**EXPORT VALUE (%) OF VENEER TO MAJOR DESTINATIONS  
: 2020 / 2019**



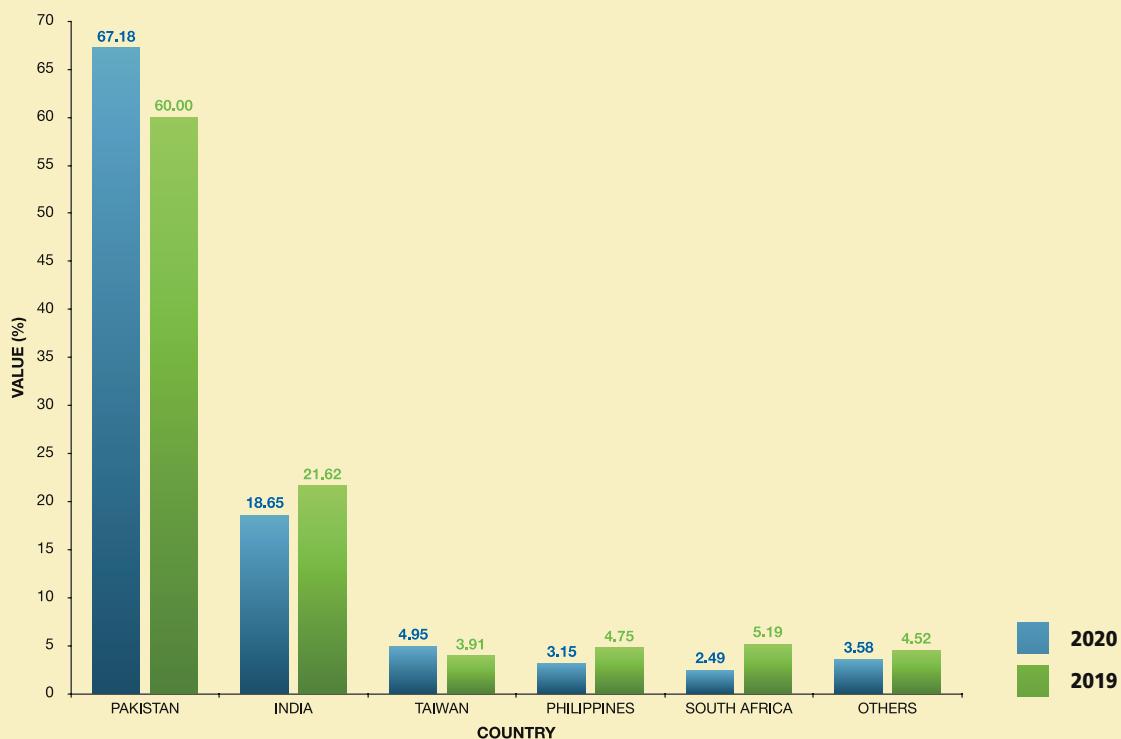
**TABLE 7**  
EXPORT OF DOORSKIN BY COUNTRY OF DESTINATIONS

DESTINATIONS	2020 <sup>b</sup> January - September			2019 <sup>a</sup> January - September			% Change 2020 / 2019	
	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume	Value
PAKISTAN	14,470	31,936	67.18	17,716	37,411	60.00	(18.32)	(14.64)
INDIA	3,818	8,865	18.65	6,070	13,483	21.62	(37.09)	(34.25)
TAIWAN	1,012	2,351	4.95	1,106	2,437	3.91	(8.48)	(3.51)
PHILIPPINES	572	1,497	3.15	1,175	2,962	4.75	(51.34)	(49.45)
SOUTH AFRICA	464	1,185	2.49	1,387	3,239	5.19	(66.58)	(63.40)
INDONESIA	352	743	1.56	472	1,102	1.77	(25.46)	(32.58)
THAILAND	240	683	1.44	403	1,089	1.75	(40.51)	(37.28)
VIETNAM	97	164	0.35	182	525	0.84	(46.94)	(68.73)
OTHERS*	47	111	0.23	45	103	0.17	4.49	7.91
<b>TOTAL</b>	<b>21,071</b>	<b>47,536</b>	<b>100</b>	<b>28,556</b>	<b>62,350</b>	<b>100</b>	<b>(26.21)</b>	<b>(23.76)</b>

**\*OTHER DESTINATIONS:**

- CHINA
- JAPAN
- MONGOLIA

**EXPORT VALUE (%) OF DOORSKIN TO MAJOR DESTINATIONS  
: 2020 / 2019**



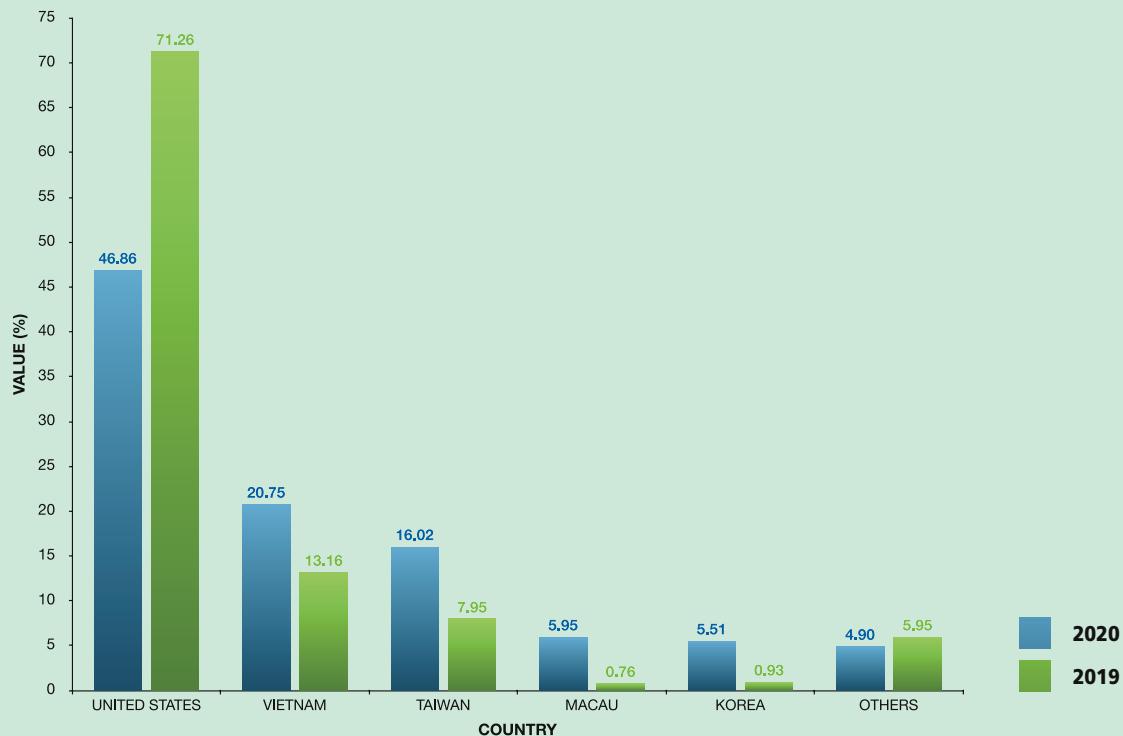
**TABLE 8**  
EXPORT OF LAMINATED BOARD/FLOORING BY COUNTRY OF DESTINATIONS

DESTINATIONS	2020 <sup>b</sup> January - September			2019 <sup>a</sup> January - September			% Change 2020 / 2019	
	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume	Value
UNITED STATES	1,589	7,010	46.86	4,689	21,214	71.26	(66.11)	(66.96)
VIETNAM	839	3,104	20.75	1,135	3,917	13.16	(26.10)	(20.74)
TAIWAN	927	2,397	16.02	695	2,366	7.95	33.36	1.32
MACAU	88	891	5.95	20	227	0.76	342.79	292.62
KOREA	317	825	5.51	120	277	0.93	164.75	197.66
INDONESIA	76	265	1.77	140	514	1.73	(45.93)	(48.46)
SINGAPORE	214	237	1.59	3	3	0.01	6882.79	8349.96
MALAYSIA (Peninsular or Sabah-free zone)	22	95	0.64	-	-	-	100.00	100.00
BRUNEI DARUSSALAM	14	54	0.36	71	305	1.03	(79.84)	(82.27)
JAPAN	25	46	0.31	-	-	-	100.00	100.00
OTHERS	23	36	0.24	269	949	3.19	(91.37)	(96.25)
<b>TOTAL</b>	<b>4,135</b>	<b>14,959</b>	<b>100</b>	<b>7,141</b>	<b>29,771</b>	<b>100</b>	<b>(42.10)</b>	<b>(49.75)</b>

**\*OTHER DESTINATIONS:**

- BANGLADESH
- CANADA
- MACAU
- MIDDLE EAST
- EU

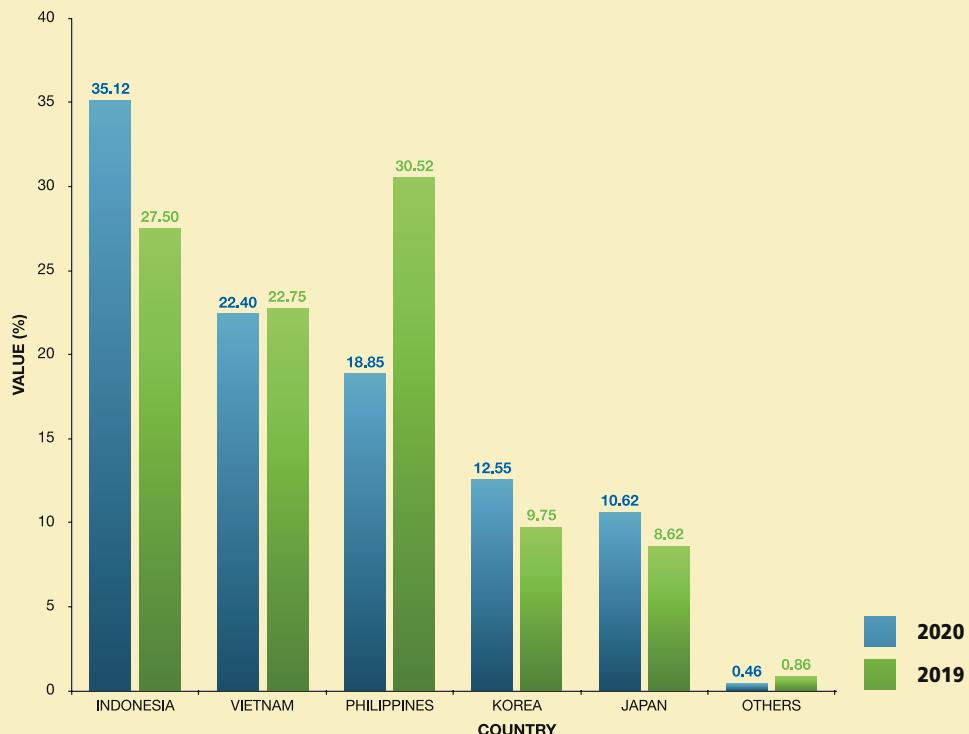
**EXPORT VALUE OF LAMINATED BOARD / FLOORING TO MAJOR DESTINATIONS  
: 2020 / 2019**



**TABLE 9**  
EXPORT OF PARTICLE BOARD BY COUNTRY OF DESTINATIONS

DESTINATIONS	2020 <sup>b</sup> January - September			2019 <sup>a</sup> January - September			% Change 2020 / 2019	
	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume	Value
INDONESIA	7,739	5,338	35.12	10,743	6,169	27.50	(27.97)	(13.48)
VIETNAM	5,347	3,405	22.40	7,996	5,104	22.75	(33.13)	(33.29)
PHILIPPINES	3,763	2,865	18.85	9,605	6,847	30.52	(60.82)	(58.16)
KOREA	2,979	1,908	12.55	3,247	2,188	9.75	(8.26)	(12.80)
JAPAN	2,207	1,615	10.62	2,671	1,933	8.62	(17.37)	(16.48)
KENYA	110	70	0.46	-	-	-	100.00	100.00
INDIA	-	-	-	448	193	0.86	(100.00)	(100.00)
<b>TOTAL</b>	<b>22,145</b>	<b>15,200</b>	<b>100</b>	<b>34,710</b>	<b>22,434</b>	<b>100</b>	<b>(36.20)</b>	<b>(32.25)</b>

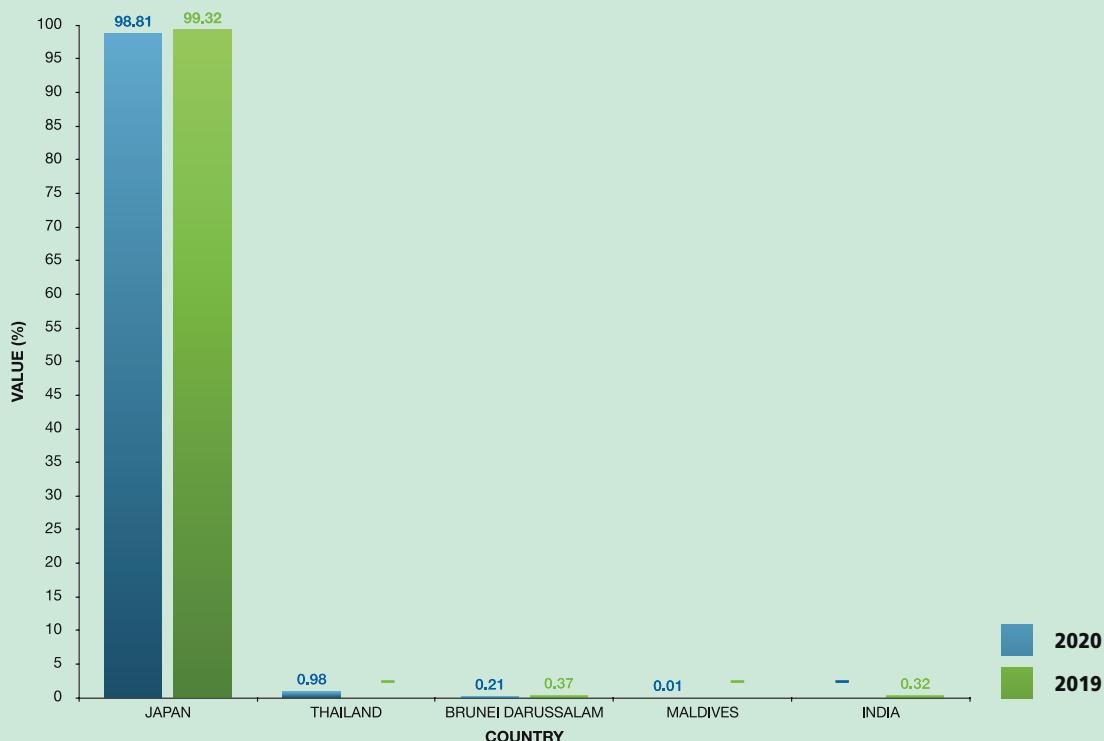
**EXPORT VALUE OF PARTICLE BOARD TO MAJOR DESTINATIONS  
(RM'000) : 2020 / 2019**



**TABLE 10**  
EXPORT OF DOOR PANEL & FRAME BY COUNTRY OF DESTINATIONS

DESTINATIONS	2020 <sup>b</sup> January - September			2019 <sup>a</sup> January - September			% Change 2020 / 2019	
	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume	Value
JAPAN	9,440	15,366	98.81	9,073	17,224	99.32	4.04	(10.79)
THAILAND	26	152	0.98	-	-	-	100.00	100.00
BRUNEI DARUSSALAM	26	32	0.21	18	64	0.37	47.76	(49.75)
MALDIVES	7	1	0.01	-	-	-	100.00	100.00
INDIA	-	-	-	21	55	0.32	(100.00)	(100.00)
<b>TOTAL</b>	<b>9,499</b>	<b>15,551</b>	<b>100</b>	<b>9,112</b>	<b>17,343</b>	<b>100</b>	<b>4.25</b>	<b>(10.33)</b>

**EXPORT VALUE (%) OF DOOR PANEL & FRAME TO MAJOR DESTINATIONS  
: 2020 / 2019**



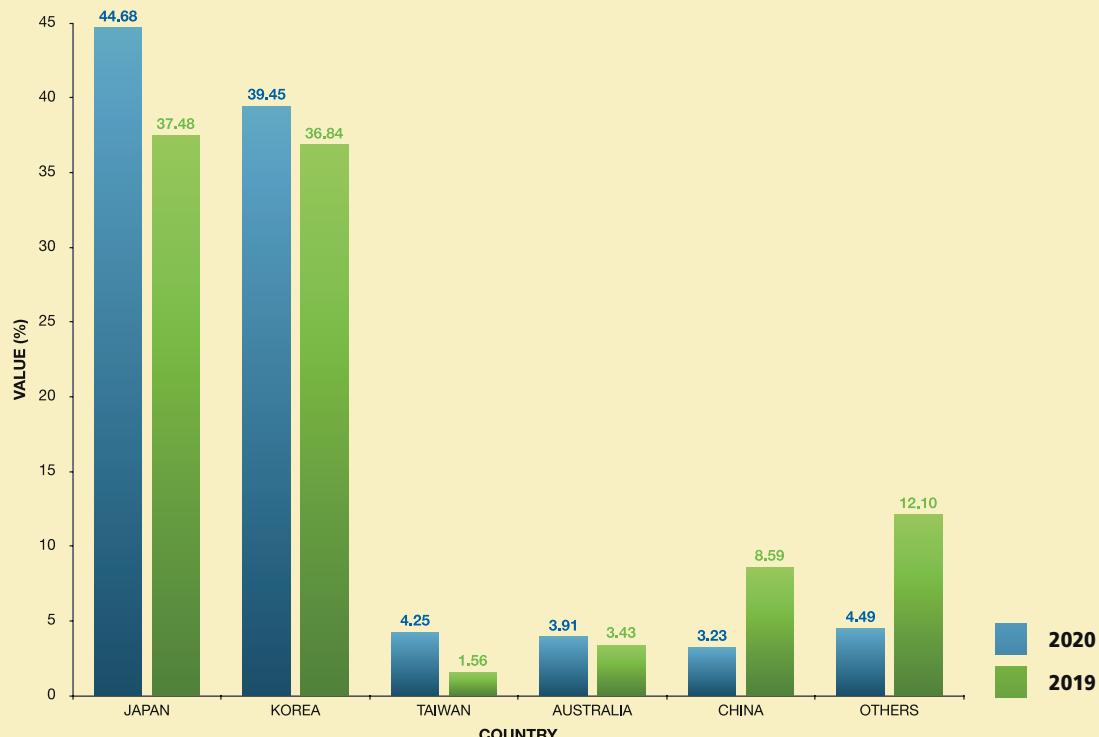
**TABLE 11**  
EXPORT OF MOULDING BY COUNTRY OF DESTINATIONS

DESTINATIONS	2020 <sup>b</sup> January - September			2019 <sup>a</sup> January - September			% Change 2020 / 2019	
	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume (M <sup>3</sup> )	FOB Value (RM'000)	Value %	Volume	Value
JAPAN	1,638	3,919	44.68	2,121	4,734	37.48	(22.76)	(17.21)
KOREA	1,542	3,461	39.45	2,048	4,654	36.84	(24.72)	(25.63)
TAIWAN	224	373	4.25	121	198	1.56	84.82	88.65
AUSTRALIA	94	343	3.91	101	433	3.43	(6.79)	(20.88)
CHINA	164	283	3.23	812	1,085	8.59	(79.86)	(73.87)
SEYCHELLES	36	113	1.28	-	-	-	100.00	100.00
EU	21	100	1.14	116	579	4.59	(82.12)	(82.77)
SINGAPORE	22	58	0.66	-	-	-	100.00	100.00
SOUTH AFRICA	18	57	0.65	90	343	2.71	(80.18)	(83.36)
MALDIVES	15	56	0.64	35	155	1.23	(58.28)	(64.11)
OTHERS*	907	10	0.12	134	451	3.57	577.26	(97.69)
<b>TOTAL</b>	<b>4,680</b>	<b>8,773</b>	<b>100</b>	<b>5,578</b>	<b>12,632</b>	<b>100</b>	<b>(16.10)</b>	<b>(30.55)</b>

**\*OTHER DESTINATIONS:**

- MALDIVES
- SRI LANKA
- VIETNAM

**EXPORT VALUE OF MOULDING TO MAJOR DESTINATIONS  
: 2020 / 2019**

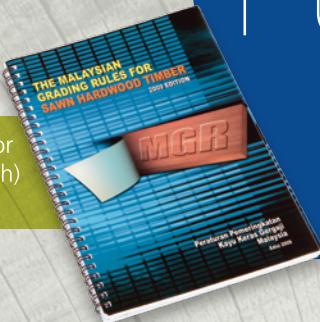


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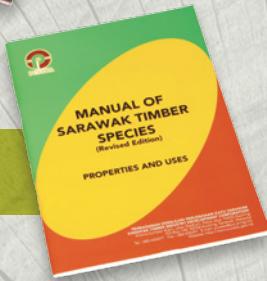
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