

Oversea-Chinese Banking Corp

Stellar performance across all segments

SINGAPORE | BANKING | 4Q17 RESULTS

- 4Q17 PATMI of S\$1,033mn was in line with our estimates
- NII increased 14% YoY on the back of strong loans growth and higher NIM
- WM fee income grew 38% YoY on the back of strong AUM growth
- Net trading income weaker YoY and QoQ as global FICC trading environment remains . weak.
- Upgrade to BUY with a higher TP of S\$13.94 (previous TP S\$13.48) based on Gordon Growth Model.

Results at a glance

(SGD mn)	4Q17	4Q16	YoY (%)	3Q17	QoQ (%)	Comments
Net interest income	1,424	1,251	14%	1,382	3%	NIMs +1bps YoY. Loans +7%
						ҮоҮ
Fees & Comm	491	420	17%	488	1%	Higher WM fee income
Insurance	299	182	64%	238	26%	Higher Life Assurance profit
						YoY
Other NII	415	324	28%	252	65%	Higher net gain from
						investment securities
Total income	2,629	2,177	21%	2,360	11%	
Expenses	-1,067	-981	9%	-1,001	7%	Incl. Barclays WM staff costs
Allowances	-178	-305	-42%	-156	14%	
PATMI	1,033	789	31%	1,057	-2%	

Source: Company, PSR

The Positives

+ Strong loans growth as global and domestic economic outlook improves. Loans grew 8% YoY outpacing Singapore domestic system loans growth of 5.4%. Loans growth was led by property related loans and general commerce.

+ Stronger NII on the back of better NIM and robust loans growth. NII grew 14% and NIM increased 4 bps higher YoY to reach to 1.67% as Singapore and Hong Kong benchmark rates rose sharply in 4Q17. Higher rates on interbank placements also supported the NIM expansion.

+ Income was boosted by strong performance in WM and Insurance. Total WM income jumped 54% YoY and 34% QoQ to hit S\$944mn. OCBC's private banking arm, Bank of Singapore's AUM grew 25% in 2017 to reach S\$99bn. Insurance income continued the strong profit growth in 4th guarter due to the repositioning of assets and liabilities in the Non-Participating Fund insurance business.

+ Cleaned up substantial portion of the offshore oil and gas exposure. NPL ratio rose to 1.5% in 4Q17 from 1.3% in 3Q17 on accelerated recognition of NPA from the offshore oil and gas sector. However, OCBC had also significantly reduced its exposure to the OSV sector to \$\$4.8bn compared to \$\$5.7bn in 3Q17. Of the \$\$4.8bn, \$\$1.9bn was classified as NPL representing 40% of the OSV exposure.

The Negatives

- OCBC Wing Hang net profit was down 2% YoY. OCBC Wing Hang's positive NII growth was offset by lower Non-II, higher allowances and operating expense.

- Net trading income continues to be weak. Similarly, universal banks and investment banks globally continue to report weak trading income, citing the challenge of low market volatility.



StocksBnB.com

21 February 2018

SGD 12.92
SGD 0.37
SGD 13.94
10.8%

COMPANY DATA

BLOOMBERGTICKER	OCBC SP
O/S SHARES (MN) :	4,186
MARKET CAP (USD mn / SGD mn) :	41034 / 54079
52 - WK HI/LO (SGD) :	13.32 / 9.41
3M Average Daily T/O (mn) :	5.48

MAJOR SHAREHOLDERS (%)

Lee Foundation	4.34%
Selat (Pte) Limited	11.03%
First State Investments	2.57%
Singapore Investments (Pte) Ltd	3.75%

PRICE PERFORMANCE (%)

	1M T H	3 M T H	1Y R
COMPANY	(2.8)	9.6	39.9
STIRETURN	(1.92)	3.04	15.86

PRICE VS. ST



Source: Bloomberg, PSR

KEY FINANCIALS							
Y/E Dec	F Y 16	FY 17	FY 18 e	FY 19 e			
T otal Op Inc (SGD mn)	8,489	9,637	10,310	11,013			
Op Profit (SGD mn)	3,879	4,828	5,441	6,096			
NPAT, adj.	3,646	4,413	4,962	5,516			
EPS (SGD)	0.83	0.99	1.11	1.24			
PER, adj. (x)	10.9	13.0	11.6	10.4			
P/BV, x	1.0	1.4	1.4	1.3			
ROE(%)	10.0%	11.2%	12.0%	12.6%			

Source: Bloomberg, Company, PSR

Valuation Method:

Gordon Growth Model (ERP: 5%, g: 2%)

Jeremy Teong (+65 6212 1863) **Investment Analyst** jeremyteongfh@phillip.com.sg



Outlook

We expect OCBC's loans growth to continue at high single percentage growth in FY18e and we have also improved our loans growth outlook from 6% to c.8% as OCBC's management has alluded to enough opportunities to deploy capital to grow the business organically. Therefore we expect NII to grow c.9% in FY18e, improving from our previous estimate of c.6% on the back of a moderately strong economy. Other growth catalysts in FY18 will be the stronger real estate related loans in Singapore as enbloc sales transactions start to flow into the market. We also expect OCBC's Bank of Singapore to benefit from the wealth effects of the enbloc sales in Singapore as vendors from successful enbloc sales will likely engage wealth managers to manage their new found wealth.

Greater China business had demonstrated strong traction. OCBC Wing Hang's FY17 total income grew 13% as a result of strong growth in NII and Non-II. We believe OCBC is confident of growing the franchise in that region and that corroborates with the management's decision to retain and deploy capital to grow the business instead of paying out more dividends.

List of Abbreviations WM – Wealth Management NII – Net Interest Income Non-II - Non-interest Income NIM – Net Interest Margin LDR – Loan to Deposit Ratio NPL – Non-performing Loans NPA – Non-performing Assets PPOP – Pre-Provision Operating Profit WACC - Weighted Average Cost of Capital ROIC – Return on Invested Capital FHR – Fixed Deposit Home Loan Rate EV – Economic Value O&G – Oil and Gas OSV - Offshore Support Services & Vessels

Valuation: Gordon Growth Model

ltem	Description	Value
R _f	Risk-free rate	3.0%
Е	Equity-risk premium	5.7%
В	Beta	1.02
COE	Cost of Equity	8.8%
ROE	FY17e Return on Equity	12.0%
g	Terminal growth rate	2.0%
(R <u>OE-g)</u> (COE-g)	FY18e Target Price to Book	1.46
	FY18e BVPS, S\$	9.55
	FY18e Valuation, S\$	13.94

Investment Actions

Upgrade to "Buy" from "Accumulate" with a higher TP of S\$13.94 (previous TP S\$13.48) based on Gordon Growth Model.



Table 1: Fee and commission income

SGD mn	4Q17	4Q16	YoY (%)	3Q17	QoQ (%)
Brokerage	18	17	5.9%	19	-5.3%
Wealth management	216	157	37.6%	205	5.4%
Fund management	28	27	3.7%	28	0.0%
Credit card	42	40	5.0%	40	5.0%
Loan-related	70	76	-7.9%	76	-7.9%
Trade and remittances	56	55	1.8%	56	0.0%
Guarantees	5	4	25.0%	5	0.0%
Investment Banking	26	13	100.0%	15	73.3%
Service charges	21	22	-4.5%	33	-36.4%
Others	9	9	0.0%	11	-18.2%
Total Fee and Comm	491	420	16.9%	488	0.6%

Table 2: Other non-interest income

SGD mn	4Q17	4Q16	YoY (%)	3Q17	QoQ (%)
Net trading income	99	122	-18.9%	118	-16.1%
Net gain on Invt securities	249	54	361.1%	64	289.1%
Disposal of properties	1	82	-98.8%	25	-96.0%
Others	11	26	-57.7%	10	10.0%
Total other non int Inc	383	284	34.9%	207	85.0%

Table 3: Loans by Industries

SGD mn	4Q17	4Q16	YoY (%)	3Q17	QoQ (%)
Agri, mining & quarrying	8,073	8,974	-10.0%	7,997	1.0%
Manufacturing	12,501	12,697	-1.5%	12,991	-3.8%
Building and construction	35,436	35,632	-0.6%	35,250	0.5%
Housingloans	64,542	60,149	7.3%	62,037	4.0%
General commerce	29,010	25,348	14.4%	27,626	5.0%
Tpt, storage & comms	11,568	11,520	0.4%	12,198	-5.2%
Fls, invt & holding co	37,838	30,491	24.1%	36,929	2.5%
Professionals & Pri inv	28,704	26,396	8.7%	27,943	2.7%
Others	9,649	8,945	7.9%	9,454	2.1%
Total loans	237,321	220,152	7.8%	232,425	2.1%

Property related loans show strong YoY and QoQ loans. While general commerce loans grew strongly YoY as economic growth remains robust.

Table 4: Loans by currencies

SGD mn	4Q17	4Q16	YoY (%)	3Q17	QoQ (%)
Singapore dollar	85,485	81,260	5.2%	83,787	2.0%
US dollar	61,445	56,576	8.6%	60,808	1.0%
Malaysian ringgit	20,481	20,552	-0.3%	20,093	1.9%
Indonesian rupiah	7,795	7,486	4.1%	7,642	2.0%
Others	24,478	18,757	30.5%	23,098	6.0%
Hong Kong Dollar	33,011	30,339	8.8%	31,714	4.1%
Renminbi	4,626	5,182	-10.7%	5,283	-12.4%
Total loans	237,321	220,152	7.8%	232,425	2.1%

Table 5: Operating profit by Business segments

SGD mn	4Q17	4Q16	YoY (%)	3Q17	QoQ (%)
Global Consumer/ Private Banking	286	257	11.3%	311	-8.0%
Global Corporate/Investment Banking	261	230	13.5%	374	-30.2%
Global Treasury and Markets	95	77	23.4%	144	-34.0%
Insurance	479	222	115.8%	252	90.1%
OCBC Wing Hang	83	106	-21.7%	111	-25.2%
Others	154	(25)	nm	(15)	nm
Total Profit	1,358	867	56.6%	1,177	15.4%

Insurance profit growth was attributed to stronger contribution from Shareholders' Fund.

P PhillipCapital

OVERSEA-CHINESE BANKING CORP RESULTS

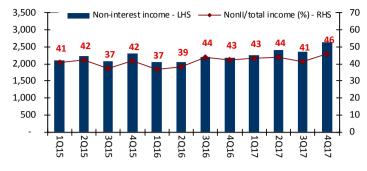
Table 6: Profit before tax by Geographical segments					
SGD mn	4Q17	4Q16	YoY (%)	3Q17	QoQ (%)
Singapore	800	463	72.8%	682	17.3%
Malaysia	378	341	10.9%	314	20.4%
Indonesia	199	189	5.3%	204	-2.5%
Greater China	339	312	8.7%	354	-4.2%
Other Asia Pacific	42	35	20.0%	42	0.0%
Rest of the World	61	39	56.4%	53	15.1%
Total NPBT	1,819	1,379	31.9%	1,649	10.3%

Source (tables 1-6): Company, Phillip Securities Research



Fig 1: Net interest margin 1,500 Net interest income - LHS - NIM-RHS 3.00 1,400 2.50 1,300 2.00 1,200 1,100 1.50 1,000 900 1.00 800 0.50 700 600 0.00 2Q16 2Q17 3Q17 4Q17 2Q15 3Q15 4Q15 1Q16 3Q16 4Q16 1Q17 lois

Fig 2: NonII/Total revenue



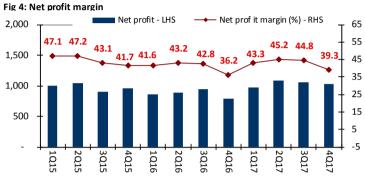


Fig 3: Efficiency ratio

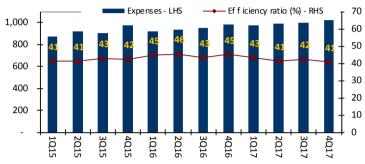
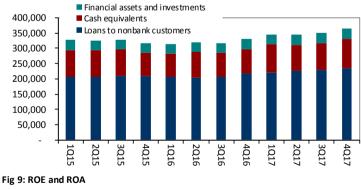
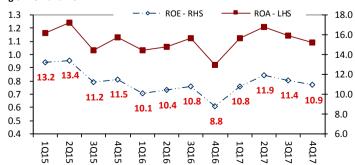


Fig 5: Deposits, Loans, LDR 300,000 250,000 200,000 150,000 100,000 50,000 3Q16 4Q16 1Q17 2Q17 3Q17 2Q15 3Q15 4Q15 2Q16 4Q17 1Q16 LQ15 Cus de p Cus loans - LDR (%) - RHS

Fig 7: Growth in selected asset items



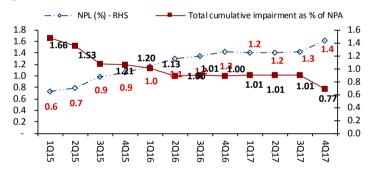




95

90

85



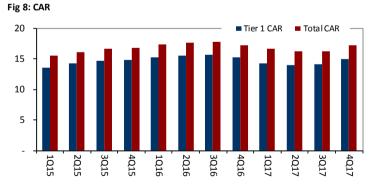
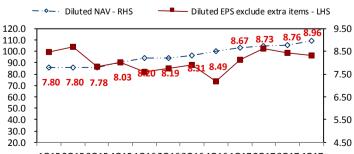


Fig 10: EPS and NBV



1Q15 2Q15 3Q15 4Q15 1Q16 2Q16 3Q16 4Q16 1Q17 2Q17 3Q17 4Q17

P PhillipCapital

Fig 11: Profit before tax by geographical segment

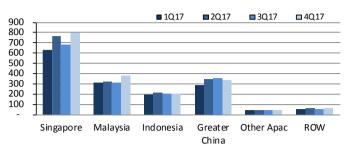


Fig 13: Operating profit by Business segment

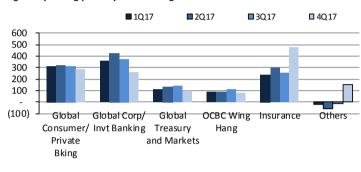


Fig 15: Fee and Commission trend

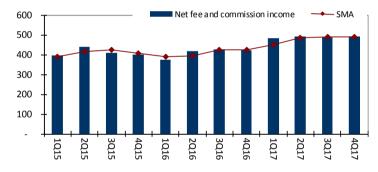


Fig 17: Profit from insurance



Fig 12: Geo segment breakdown

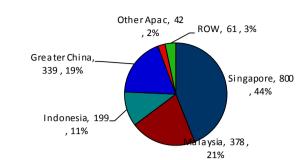


Fig 14: Net interest income trend

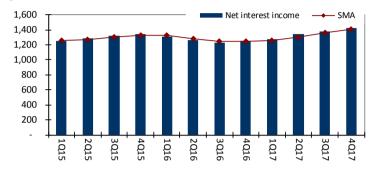
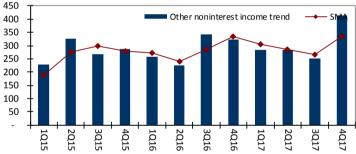


Fig 16: Other noninterest income trend



Financials

Income Statement					
Y/E Dec, SGD mn	FY15	FY16	FY17	FY18e	FY19e
Net Int Income	5,189	5,052	5,423	6,022	6,648
Fees and Commission	1,655	1,638	1,952	2,060	2,118
Other Non int income	1,878	1,799	2,262	2,228	2,246
Total operating income	8,722	8,489	9,637	10,310	11,013
Operating expenses	3,665	3,789	4,033	4,297	4,345
Provisions	585	821	776	572	572
Operating profit	4,472	3,879	4,828	5,441	6,096
Associates & JVs	353	396	388	388	388
Profit Before Tax	4,825	4,275	5,216	5,829	6,484
Taxation	717	629	803	867	968
Profit After Tax	4,108	3,646	4,413	4,962	5,516
Non-controlling Interest	205	173	266	299	332
Net Income, reported	3,903	3,473	4,148	4,663	5,184
Net Income, adj.	3,903	3,473	4,147	4,663	5,184

Balance Sheet					
Y/E Dec, SGD mn	FY15	FY16	FY17	FY18e	FY19e
Cash bal with central banks	21,180	16,559	19,594	17,369	10,891
Due from banks	35,791	39,801	49,377	42,926	43,302
Debt and equity securities	22,786	23,157	25,329	24,516	24,732
Loans and bills receivable	208,218	216,830	234,141	257,236	278,048
Life Assur. Fund Inv. Assets	56,983	61,973	73,927	76,145	78,429
Others	45,232	51,564	52,570	50,578	50,824
Total Assets	390,190	409,884	454,938	468,770	486,227
Due to banks	12,048	10,740	7,485	8,836	8,914
Due to non-bank customers	246,277	261,486	283,642	291,496	302,988
Life Assur. Fund Liabilities	56,994	61,962	73,755	75,968	78,247
Debts issued	23,479	19,947	32,235	31,811	32,129
Others	14,282	16,107	16,045	16,520	17,009
Total liabilities	353,080	370,242	413,162	424,631	439,286
Shareholder's equity	34,553	37,007	39,008	40,956	43,425
Non-controlling interest	2,558	2,635	2,884	3,183	3,516
Total Equity	37,111	39,642	41,892	44,139	46,941

Per share data (SGD)					
Y/E Dec, SGD mn	FY15	FY16	FY17	FY18e	FY19e
EPS, reported	0.95	0.83	0.99	1.11	1.24
EPS, adj.	0.95	0.83	0.99	1.11	1.24
DPS	0.36	0.36	0.37	0.37	0.37
BVPS	8.15	8.61	9.08	9.55	10.15

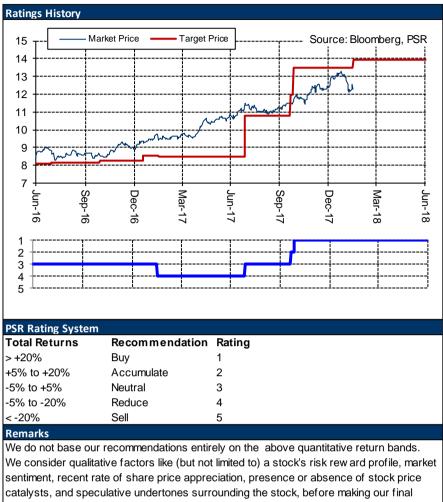
Supplementary items					
Y/E Dec, SGD mn	FY15	FY16	FY17	FY18e	FY19e
CET1 CAR (%)	14.8%	14.7%	13.9%	13.6%	13.7%
Tier 1 CAR (%)	14.8%	15.2%	15.0%	14.6%	14.6%
Total CAR (%)	16.8%	17.2%	17.2%	16.6%	16.4%

Valuation Ratios					
Y/E Dec, SGD mn	FY15	FY16	FY17	FY18e	FY19e
P/E (X), adj.	9.3	10.9	13.0	11.6	10.4
P/B (X)	1.1	1.0	1.4	1.4	1.3
Dividend Yield (%)	4.1%	4.0%	3.9%	3.9%	3.9%
Growth & Margins (%)					
Growth					
Netintincome	9.6%	-2.6%	7.3%	11.0%	10.4%
Non int income	-2.0%	-2.7%	22.6%	1.8%	1.8%
Pre provision operating profit	4.6%	-2.7%	13.5%	7.0%	6.8%
Operating income	-3.8%	-13.3%	24.5%	12.7%	12.0%
Net income, reported	1.5%	-11.0%	19.4%	12.4%	11.2%
Net income, adj	1.5%	-11.0%	19.4%	12.4%	11.2%
Margins					
Net interest margin	1.67%	1.67%	1.65%	1.70%	1.76%
Key Ratios (%)					
ROE	12.3%	10.0%	11.2%	12.0%	12.6%
ROA	1.2%	1.0%	1.1%	1.2%	1.3%
RORWA	2.0%	1.8%	2.1%	2.2%	2.3%
Non-int/total income ratio	40.5%	40.5%	43.7%	41.6%	39.6%
Cost/income ratio	42.0%	44.6%	41.8%	41.7%	39.5%
Loan/deposit ratio	84.5%	82.9%	82.5%	88.2%	91.8%
NPL ratio	0.93	1.26	1.44	0.80	0.79

Source: Company, Phillip Securities Research (Singapore) Estimates

*Forward multiples & yields based on current market price; historical multiples & yields based on historical market price.





recommendation



Head of Research

Paul Chew – paulchewkl@phillip.com.sg

Consumer | Healthcare Soh Lin Sin - <u>sohls@phillip.com.sg</u>

Transport | REITs (Industrial) Richard Leow - <u>richardleowwt@phillip.com.sg</u>

Banking and Finance Jeremy Teong - jeremyteongfh@phillip.com.sg

SINGAPORE

Phillip Securities Pte Ltd Raffles City Tower 250, North Bridge Road #06-00 Singapore 179101 Tel +65 6533 6001 Fax +65 6535 6631 Website: www.poems.com.sg

JAPAN

Phillip Securities Japan, Ltd. 4-2 Nihonbashi Kabuto-cho Chuo-ku, Tokyo 103-0026 Tel +81-3 3666 2101 Fax +81-3 3666 6090 Website: www.phillip.co.jp

THAILAND

Phillip Securities (Thailand) Public Co. Ltd 15th Floor, Vorawat Building, 849 Silom Road, Silom, Bangrak, Bangkok 10500 Thailand Tel +66-2 6351700 / 22680999 Fax +66-2 22680921 Website www.phillip.co.th

UNITED STATES

Phillip Capital Inc 141 W Jackson Blvd Ste 3050 The Chicago Board of Trade Building Chicago, IL 60604 USA Tel +1-312 356 9000 Fax +1-312 356 9005 Website: www.phillipusa.com

INDIA

PhillipCapital (India) Private Limited No.1, 18th Floor, Urmi Estate 95, Ganpatrao Kadam Marg Lower Parel West, Mumbai 400-013 Maharashtra, India Tel: +91-22-2300 2999 / Fax: +91-22-2300 2969 Website: www.phillipcapital.in

CAMBODIA Phillip Bank Plc

Ground Floor of B-Office Centre,#61-64, Norodom Blvd Corner Street 306,Sangkat Boeung Keng Kang 1, Khan Chamkamorn, Phnom Penh, Cambodia Tel: 855 (0) 7796 6151/855 (0) 1620 0769 Website: www.phillipbank.com.kh **Oil & Gas | Energy** Chen Guangzhi - chengz@phillip.com.sg

REITs (Commercial, Retail, Healthcare) | Property Dehong Tan - <u>tandh@phillip.com.sg</u>

Contact Information (Singapore Research Team)

US Equity Ho Kang Wei - <u>hokw@phillip.com.sg</u>

Contact Information (Regional Member Companies) MALAYSIA Phillip Capital Management Sdn Bhd B-3-6 Block B Level 3 Megan Avenue II,

No. 12, Jalan Yap Kwan Seng, 50450 Kuala Lumpur Tel +603 2162 8841 Fax +603 2166 5099 Website: <u>www.poems.com.my</u>

INDONESIA

PT Phillip Securities Indonesia ANZ Tower Level 23B, Jl Jend Sudirman Kav 33A Jakarta 10220 – Indonesia Tel +62-21 5790 0800 Fax +62-21 5790 0809 Website: www.phillip.co.id

FRANCE

King & Shaxson Capital Limited 3rd Floor, 35 Rue de la Bienfaisance 75008 Paris France Tel +33-1 45633100 Fax +33-1 45636017 Website: www.kingandshaxson.com

AUSTRALIA

Phillip Capital Limited Level 10, 330 Collins Street Melbourne, Victoria 3000, Australia Tel +61-03 9629 8288 Fax +61-03 9629 8882 Website: www.phillipcapital.com.au

TURKEY

PhillipCapital Menkul Degerler Dr. Cemil Bengü Cad. Hak Is Merkezi No. 2 Kat. 6A Caglayan 34403 Istanbul, Turkey Tel: 0212 296 84 84 Fax: 0212 233 69 29 Website: www.phillipcapital.com.tr

Research Operations Officer

Mohamed Amiruddin - amiruddin@phillip.com.sg

Macro Pei Sai Teng - <u>peist@phillip.com.sg</u>

Technical Analysis Jeremy Ng - jeremyngch@phillip.com.sg

REITs (Commercial, Retail, Healthcare) | Property Tara Wong - <u>tarawongsj@phillip.com.sg</u>

> HONG KONG Phillip Securities (HK) Ltd 11/F United Centre 95 Queensway Hong Kong Tel +852 2277 6600 Fax +852 2868 5307 Websites: www.phillip.com.hk

CHINA

Phillip Financial Advisory (Shanghai) Co Ltd No 550 Yan An East Road, Ocean Tower Unit 2318, Postal code 200001 Tel +86-21 5169 9200 Fax +86-21 6351 2940 Website: www.phillip.com.cn

UNITED KINGDOM

King & Shaxson Capital Limited 6th Floor, Candlewick House, 120 Cannon Street, London, EC4N 6AS Tel +44-20 7426 5950 Fax +44-20 7626 1757 Website: www.kingandshaxson.com

SRI LANKA

Asha Phillip Securities Limited 2nd Floor, Lakshmans Building, No. 321, Galle Road, Colombo 03, Sri Lanka Tel: (94) 11 2429 100 Fax: (94) 11 2429 199 Website: www.ashaphillip.net

DUBAI

Phillip Futures DMCC Member of the Dubai Gold and Commodities Exchange (DGCX) Unit No 601, Plot No 58, White Crown Bldg, Sheikh Zayed Road, P.O.Box 212291 Dubai-UAE Tel: +971-4-3325052 / Fax: + 971-4-3328895



Important Information

This report is prepared and/or distributed by Phillip Securities Research Pte Ltd ("Phillip Securities Research"), which is a holder of a financial adviser's license under the Financial Advisers Act, Chapter 110 in Singapore.

By receiving or reading this report, you agree to be bound by the terms and limitations set out below. Any failure to comply with these terms and limitations may constitute a violation of law. This report has been provided to you for personal use only and shall not be reproduced, distributed or published by you in whole or in part, for any purpose. If you have received this report by mistake, please delete or destroy it, and notify the sender immediately.

The information and any analysis, forecasts, projections, expectations and opinions (collectively, the "Research") contained in this report has been obtained from public sources which Phillip Securities Research believes to be reliable. However, Phillip Securities Research does not make any representation or warranty, express or implied that such information or Research is accurate, complete or appropriate or should be relied upon as such. Any such information or Research contained in this report is subject to change, and Phillip Securities Research shall not have any responsibility to maintain or update the information or Research made available or to supply any corrections, updates or releases in connection therewith.

Any opinions, forecasts, assumptions, estimates, valuations and prices contained in this report are as of the date indicated and are subject to change at any time without prior notice. Past performance of any product referred to in this report is not indicative of future results.

This report does not constitute, and should not be used as a substitute for, tax, legal or investment advice. This report should not be relied upon exclusively or as authoritative, without further being subject to the recipient's own independent verification and exercise of judgment. The fact that this report has been made available constitutes neither a recommendation to enter into a particular transaction, nor a representation that any product described in this report is suitable or appropriate for the recipient. Recipients should be aware that many of the products, which may be described in this report involve significant risks and may not be suitable for all investors, and that any decision to enter into transactions involving such products should not be made, unless all such risks are understood and an independent determination has been made that such transactions would be appropriate. Any discussion of the risks contained herein with respect to any product should not be considered to be a disclosure of all risks or a complete discussion of such risks.

Nothing in this report shall be construed to be an offer or solicitation for the purchase or sale of any product. Any decision to purchase any product mentioned in this report should take into account existing public information, including any registered prospectus in respect of such product.

Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may provide an array of financial services to a large number of corporations in Singapore and worldwide, including but not limited to commercial / investment banking activities (including sponsorship, financial advisory or underwriting activities), brokerage or securities trading activities. Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may have participated in or invested in transactions with the issuer(s) of the securities mentioned in this report, and may have performed services for or solicited business from such issuers. Additionally, Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may have provided advice or investment services to such companies and investments or related investments, as may be mentioned in this report.

Phillip Securities Research or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report may, from time to time maintain a long or short position in securities referred to herein, or in related futures or options, purchase or sell, make a market in, or engage in any other transaction involving such securities, and earn brokerage or other compensation in respect of the foregoing. Investments will be denominated in various currencies including US dollars and Euro and thus will be subject to any fluctuation in exchange rates between US dollars and Euro or foreign currencies and the currency of your own jurisdiction. Such fluctuations may have an adverse effect on the value, price or income return of the investment.

To the extent permitted by law, Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may at any time engage in any of the above activities as set out above or otherwise hold an interest, whether material or not, in respect of companies and investments or related investments, which may be mentioned in this report. Accordingly, information may be available to Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, which is not reflected in this report, and Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, which is not reflected in this report, and Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited to its officers, directors, employees or persons involved in the issuance of this report, may, to the extent permitted by law, have acted upon or used the information prior to or immediately following its publication. Phillip Securities Research, or persons associated with or connected to Phillip Securities Research, including but not limited its officers, directors, employees or persons involved in the issuance of this report, may have issued other material that is inconsistent with, or reach different conclusions from, the contents of this report.

The information, tools and material presented herein are not directed, intended for distribution to or use by, any person or entity in any jurisdiction or country where such distribution, publication, availability or use would be contrary to the applicable law or regulation or which would subject Phillip Securities Research to any registration or licensing or other requirement, or penalty for contravention of such requirements within such jurisdiction.

This report is intended for general circulation only and does not take into account the specific investment objectives, financial situation or particular needs of any particular person. The products mentioned in this report may not be suitable for all investors and a person receiving or reading this report should seek advice from a professional and financial adviser regarding the legal, business, financial, tax and other aspects including the suitability of such products, taking into account the specific investment objectives, financial situation or particular needs of that person, before making a commitment to invest in any of such products.

This report is not intended for distribution, publication to or use by any person in any jurisdiction outside of Singapore or any other jurisdiction as Phillip Securities Research may determine in its absolute discretion.

IMPORTANT DISCLOSURES FOR INCLUDED RESEARCH ANALYSES OR REPORTS OF FOREIGN RESEARCH HOUSES

Where the report contains research analyses or reports from a foreign research house, please note:

- (i) recipients of the analyses or reports are to contact Phillip Securities Research (and not the relevant foreign research house) in Singapore at 250 North Bridge Road, #06-00 Raffles City Tower, Singapore 179101, telephone number +65 6533 6001, in respect of any matters arising from, or in connection with, the analyses or reports; and
- (ii) to the extent that the analyses or reports are delivered to and intended to be received by any person in Singapore who is not an accredited investor, expert investor or institutional investor, Phillip Securities Research accepts legal responsibility for the contents of the analyses or reports.