

Asian Daily

Masan Group (MSN.HM)

3Q18 results call: Buoyant on F&B and measured optimism on feed

Maintain **OUTPERFORM**

Previous Rating: **OUTPERFORM**

Target price (D): **98,000**

Previous target price (D): 104,000

- Credit Suisse hosted the 3Q18 results conference call where senior management of Masan Group discussed performance of key business segments along with a preliminary outlook for 2019E.
- Food and beverages is back to growth mode (3Q18 sales +27% YoY) with core products of seasonings and noodles benefiting from volume rebound, product innovation and up-scaling efforts. Energy drinks also maintained solid momentum due to expansion in distribution reach. Pipeline for 4Q18 comprises launch of energy drink product, high-end sausages (after the tie-up with Jinju Ham).
- Elsewhere, the slump in feed sales has been deeper than anticipated but management is eyeing recovery in 2019E as farmers return to productivity mode. Roll-out of fresh meat is also on track for 4Q18.
- We mark-to-market 9M18 and change EPS estimates by -8% to +9%. These capture the dilution due to capital raise, lower finance costs from de-leveraging, firmer sales for F&B in 2019-20E and softer margins on feed. Our revised SOTP-based TP is set at D98,000 (from D104,000) and we maintain our **OUTPERFORM** rating on MSN.

Price (30-Oct-18, D)	78,000	Est. pot. % chg. to TP	25.6	
Mkt cap (D bn/US\$ mn)	82,153 / 3,520	Blue sky scenario (D)	104,183	
Number of shares (mn)	1,053	Grey sky scenario (D)	91,817	
Free float (%)	20.0	Performance		
52-wk range (D)	114,600 - 56,500	Absolute (%)	1M (15.9) 3M (7.4) 12M 30.0	
ADTO-6M (US\$ mn)	3.1	Relative (%)	(3.3) (0.6) 24.9	
Year	12/17A	12/18E	12/19E	12/20E
Revenue (D bn)	37,620.6	37,292.8	40,040.6	43,007.0
EBITDA (D bn)	7,309.2	8,243.3	9,106.1	9,576.4
EBIT (D bn)	4,385.3	5,050.4	6,027.7	6,676.6
Net profit (D bn)	3,102.7	5,382.8	5,982.5	6,914.0
EPS (CS adj.) (D)	2,681	4,651	5,169	5,974
Chg. from prev. EPS (%)	n.a.	(7.6)	7.7	8.7
Consensus EPS (D)	n.a.	3,995	4,556	5,584
EPS growth (%)	11.1	73.5	11.1	15.6
P/E (x)	29.1	16.8	15.1	13.1
Dividend yield (%)	0.0	0.0	0.0	0.0
EV/EBITDA (x)	15.0	11.7	9.9	8.8
P/B (x)	6.08	2.89	2.43	2.05
ROE (%)	20.6	23.4	17.5	17.0
Net debt/equity (%)	135.4	38.9	18.3	3.9

Source: Company data, Thomson Reuters, Credit Suisse estimates

We hosted the [3Q18 results](#) call with management giving updates on key business segments along with a preliminary outlook for 2019E.

Increasing traction in F&B; new launches planned for 4Q18

Masan Consumer Holdings had a noteworthy 3Q18 with revenue growth of 27% YoY (9M: 33% YoY) whilst maintaining a lean distribution channel (less than one month of demand). EBITDA margins rose 430 bp QoQ/210 bp YoY (to 27.3%) owing to the operating model transitioning towards a brand driven one rather than a sales-push approach. The core consumer products of seasonings and convenience foods saw strong double-digit revenue growth (32-36%) along with rising share of premium brands. Management noted that innovations in noodles (such as including meat) have seen a positive response and it has outlined plans to develop such products with the expertise of Jinju Ham (Korea). Within non-alcoholic beverages, energy drinks remain the fastest growing category (9M18: +55%) aided by expansion in distribution reach (points of sale have increased to 130k from 75k).

4Q18 is expected to see stronger revenues QoQ due to seasonality element (4Q is generally ~35% of full-year sales). Management has also announced an innovation pipeline in 4Q18 with re-launch campaigns planned for energy drinks (Compact brand) and sausages. A marketing investment budget of D400 bn is planned (vs D740 bn spent in 9M18). While the positives are noteworthy, the company has also acknowledged shortcomings in beer (3Q18 sales -22% YoY) and is re-thinking its distribution approach and sales strategy. Management also noted the possibility of expanding its beer product offerings.

Figure 1: Masan Consumer—product wise growth

Revenue (VND bn)	3Q17	3Q18	YoY (%)	9M17	9M18	YoY (%)
Seasonings	1,266	1,723	36.1	3,408	4,761	39.7
Convenience foods	966	1,275	32.0	2,423	3,271	35.0
Coffee	356	417	17.1	913	1,066	16.8
Non alcoholic beverages	489	676	38.2	1,480	1,910	29.1
Beer	110	86	-21.8	180	275	52.8
Processed meat	70	50	-28.6	157	131	-16.6
Others	181	153	-15.5	407	493	21.1
Total	3,438	4,380	27.4	8,968	11,907	32.8

Source: Company data

Research Analysts

Fahd Niaz, CFA / 65 6212 3035
fahd.niaz@credit-suisse.com

Prolonged slump in feed; eyeing better days in 2019E

Management acknowledged shortcomings in the feed segment where recovery has been slower than earlier expectations even though pork prices have remained above D40k/kg since 2Q18 (sufficient for primary profits). 2018 revenues are on course to decline 20-30% YoY, however, the company aims to exceed the sector growth estimate of 10% in 2019E. This can be driven by consolidation of Tier 1 and Tier 2 feed and dedicated products to large farmers. Over the medium term, management eyes gross margins at 15-18% (14.1% in 3Q18). Regarding the MNS Meat venture, the company has said that trade distribution partners are already on-board and launch of meat product is on track for 4Q18. While firm targets are yet to be released, preliminary estimates for sales are D500-1,000 bn (1-3% of group revenues).

De-leveraging on the cards post treasury share offering

MSN is looking to use the proceeds from the treasury share placement (US\$470 mn) to de-lever and management has guided that long-term debt worth D6,000 bn at the stand-alone group level and D3,000 bn at the Masan Consumer Holdings level will be retired initially. Consequently, debt-to-EBITDA should recede to <2.5x (from 3.2x).

Looking to pursue value addition in mining

Due to weaker pricing environment, copper inventory of D650 bn (45% of quarterly sales) was retained in 3Q18. Masan Resources now holds 100% of the tungsten processing facility (previously 51%) and management is looking to explore value additive opportunities.

Update model for 9M18; reiterate **OUTPERFORM**

We incorporate 9M18 accounts in our model and change EPS forecasts by -8% to +9%. This captures the dilution due to capital raise, lower finance costs from de-leveraging, firmer F&B sales in 2019-20E and softer margins on feed. Our revised SOTP-based TP is set at D98,000 (from D104,000) and we maintain our **OUTPERFORM** rating. Adjusted EPS growth for 2019E (excluding one-offs) stands at 51% YoY. MSN trades at 2019E P/E of 14.8x and we believe the recent stock price weakness (-18% in 1M) looks unwarranted.

Disclosure Appendix

Analyst Certification

I, Fahd Niaz, CFA, certify that (1) the views expressed in this report accurately reflect my personal views about all of the subject companies and securities and (2) no part of my compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this report.

3-Year Price and Rating History for Masan Group (MSN.HM)

MSN.HM	Closing Price	Target Price	
Date	(D)	(D)	Rating
16-Nov-15	49000.02	53333.36	N
11-Mar-16	49000.02		R
29-Apr-16	46666.69	53333.36	N
07-Jun-16	46000.02	56666.70	O
02-Aug-16	41000.02	58666.70	
01-Nov-16	43666.69	60666.70	
06-Feb-17	42600.00	62000.00	
02-May-17	44450.00	48000.00	N
31-Jul-17	42800.00	42700.00	
31-Oct-17	59500.00	56000.00	
23-Jan-18	92500.00	89000.00	
31-Jan-18	92100.00	87000.00	
16-May-18	92900.00	102000.00	
25-May-18	83500.00	102000.00	O
30-Jul-18	81400.00	104000.00	
19-Sep-18	91200.00		R
27-Sep-18	93500.00	104000.00	O

* Asterisk signifies initiation or assumption of coverage.



As of December 10, 2012 Analysts' stock rating are defined as follows:

Outperform (O) : The stock's total return is expected to outperform the relevant benchmark* over the next 12 months.

Neutral (N) : The stock's total return is expected to be in line with the relevant benchmark* over the next 12 months.

Underperform (U) : The stock's total return is expected to underperform the relevant benchmark* over the next 12 months.

*Relevant benchmark by region: As of 10th December 2012, Japanese ratings are based on a stock's total return relative to the analyst's coverage universe which consists of all companies covered by the analyst within the relevant sector, with Outperforms representing the most attractive, Neutrals the less attractive, and Underperforms the least attractive investment opportunities. As of 2nd October 2012, U.S. and Canadian as well as European ratings are based on a stock's total return relative to the analyst's coverage universe which consists of all companies covered by the analyst within the relevant sector, with Outperforms representing the most attractive, Neutrals the less attractive, and Underperforms the least attractive investment opportunities. For Latin American and Asia stocks (excluding Japan and Australia), ratings are based on a stock's total return relative to the average total return of the relevant country or regional benchmark (India - S&P BSE Sensex Index); prior to 2nd October 2012 U.S. and Canadian ratings were based on (1) a stock's absolute total return potential to its current share price and (2) the relative attractiveness of a stock's total return potential within an analyst's coverage universe. For Australian and New Zealand stocks, the expected total return (ETR) calculation includes 12-month rolling dividend yield. An Outperform rating is assigned where an ETR is greater than or equal to 7.5%; Underperform where an ETR less than or equal to 5%. A Neutral may be assigned where the ETR is between -5% and 15%. The overlapping rating range allows analysts to assign a rating that puts ETR in the context of associated risks. Prior to 18 May 2015, ETR ranges for Outperform and Underperform ratings did not overlap with Neutral thresholds between 15% and 7.5%, which was in operation from 7 July 2011.

Restricted (R) : In certain circumstances, Credit Suisse policy and/or applicable law and regulations preclude certain types of communications, including an investment recommendation, during the course of Credit Suisse's engagement in an investment banking transaction and in certain other circumstances.

Not Rated (NR) : Credit Suisse Equity Research does not have an investment rating or view on the stock or any other securities related to the company at this time.

Not Covered (NC) : Credit Suisse Equity Research does not provide ongoing coverage of the company or offer an investment rating or investment view on the equity security of the company or related products.

Volatility Indicator [V] : A stock is defined as volatile if the stock price has moved up or down by 20% or more in a month in at least 8 of the past 24 months or the analyst expects significant volatility going forward.

Analysts' sector weightings are distinct from analysts' stock ratings and are based on the analyst's expectations for the fundamentals and/or valuation of the sector* relative to the group's historic fundamentals and/or valuation:

Overweight : The analyst's expectation for the sector's fundamentals and/or valuation is favorable over the next 12 months.

Market Weight : The analyst's expectation for the sector's fundamentals and/or valuation is neutral over the next 12 months.

Underweight : The analyst's expectation for the sector's fundamentals and/or valuation is cautious over the next 12 months.

*An analyst's coverage sector consists of all companies covered by the analyst within the relevant sector. An analyst may cover multiple sectors.

Credit Suisse's distribution of stock ratings (and banking clients) is:

Global Ratings Distribution

Rating	Versus universe (%)	Of which banking clients (%)
Outperform/Buy*	48%	(64% banking clients)
Neutral/Hold*	38%	(59% banking clients)
Underperform/Sell*	12%	(53% banking clients)
Restricted	2%	

*For purposes of the NYSE and FINRA ratings distribution disclosure requirements, our stock ratings of Outperform, Neutral, and Underperform most closely correspond to Buy, Hold, and Sell, respectively; however, the meanings are not the same, as our stock ratings are determined on a relative basis. (Please refer to definitions above.) An investor's decision to buy or sell a security should be based on investment objectives, current holdings, and other individual factors.

Important Global Disclosures

Credit Suisse's research reports are made available to clients through our proprietary research portal on CS PLUS. Credit Suisse research products may also be made available through third-party vendors or alternate electronic means as a convenience. Certain research products are only made available through CS PLUS. The services provided by Credit Suisse's analysts to clients may depend on a specific client's preferences regarding the frequency and manner of receiving communications, the client's risk profile and investment, the size and scope of the overall client relationship with the Firm, as well as legal and regulatory constraints. To access all of Credit Suisse's research that you are entitled to receive in the most timely manner, please contact your sales representative or go to <https://plus.credit-suisse.com>.

Credit Suisse's policy is to update research reports as it deems appropriate, based on developments with the subject company, the sector or the market that may have a material impact on the research views or opinions stated herein.

Credit Suisse's policy is only to publish investment research that is impartial, independent, clear, fair and not misleading. For more detail please refer to Credit Suisse's Policies for Managing Conflicts of Interest in connection with Investment Research: <https://www.credit-suisse.com/sites/disclaimers-ib/en/managing-conflicts.html>.

Credit Suisse does not provide any tax advice. Any statement herein regarding any US federal tax is not intended or written to be used, and cannot be used, by any taxpayer for the purposes of avoiding any penalties.

Credit Suisse has decided not to enter into business relationships with companies that Credit Suisse has determined to be involved in the development, manufacture, or acquisition of anti-personnel mines and cluster munitions. For Credit Suisse's position on the issue, please see <https://www.credit-suisse.com/media/assets/corporate/docs/about-us/responsibility/banking/policy-summaries-en.pdf>.

The analyst(s) responsible for preparing this research report received compensation that is based upon various factors including Credit Suisse's total revenues, a portion of which are generated by Credit Suisse's investment banking activities

Target Price and Rating

Valuation Methodology and Risks: (12 months) for Masan Group (MSN.HM)

Method: We use SOTP (sum-of-the-parts) to value Masan Group at D98,000. For the consumer business we use a target P/E (price-to-earnings) multiple of 27.0x on 2019E EPS. We take a DCF (discounted cash flow) of the mine over project life. For Masan Nutri-Science, we use a target P/E of 15.0x on 2019E EPS. Associate stakes in Techcombank are taken at 2.4x 2019E book value. Other long-term investments are assumed at cost. Our total SOTP is lowered by a conglomerate discount of 10% to derive a target price of D98,000. We believe MSN warrants an OUTPERFORM rating as valuations have cooled off post the recent sell-off. Core business segments are showing signs of recovery with innovations in F&B, firmer associate profit contributions and operational efficiencies at the mine. These are poised to deliver a forecast three-year consolidated NPATMI CAGR of 30%.

Risk: Key risks to our OUTPERFORM rating and D98,000 target price for Masan Group include a slowdown in sales growth in F&B along with margin erosion and lacklustre responses to new product launches. For the mining business, declines in metal pricing and operational issues could impact forecasts. In animal feed, weakness in hog prices would have direct implications for feed demand and margins. And lastly in Techcombank, a slower growth trajectory (vs our forecasts) could affect MSN's profitability.

Please refer to the firm's disclosure website at <https://rave.credit-suisse.com/disclosures/view/selectArchive> for the definitions of abbreviations typically used in the target price method and risk sections.

See the Companies Mentioned section for full company names

Credit Suisse currently has, or had within the past 12 months, the following as investment banking client(s): MSN.HM

Credit Suisse provided investment banking services to the subject company (MSN.HM) within the past 12 months.

Within the last 12 months, Credit Suisse has received compensation for non-investment banking services or products from the following issuer(s): MSN.HM

Credit Suisse has managed or co-managed a public offering of securities for the subject company (MSN.HM) within the past 12 months.

Within the past 12 months, Credit Suisse has received compensation for investment banking services from the following issuer(s): MSN.HM

Credit Suisse expects to receive or intends to seek investment banking related compensation from the subject company (MSN.HM) within the next 3 months.

Credit Suisse currently has, or had within the past 12 months, the following issuer(s) as client(s), and the services provided were non-investment-banking, securities-related: MSN.HM

Credit Suisse or a member of the Credit Suisse Group is a market maker or liquidity provider in the securities of the following subject issuer(s): MSN.HM

A member of the Credit Suisse Group is party to an agreement with, or may have provided services set out in sections A and B of Annex I of Directive 2014/65/EU of the European Parliament and Council ("MiFID Services") to, the subject issuer (MSN.HM) within the past 12 months.

As of the end of the preceding month, Credit Suisse beneficially own 1% or more of a class of common equity securities of (MSN.HM).

Credit Suisse beneficially holds >0.5% short position of the total issued share capital of the subject company (MSN.HM).

For date and time of production, dissemination and history of recommendation for the subject company(ies) featured in this report, disseminated within the past 12 months, please refer to the link: <https://rave.credit-suisse.com/disclosures/view/report?i=387928&v=-6vbfzeu3rphom0fa8vfd000ej>.

Important Regional Disclosures

Singapore recipients should contact Credit Suisse AG, Singapore Branch for any matters arising from this research report.

The analyst(s) involved in the preparation of this report may participate in events hosted by the subject company, including site visits. Credit Suisse does not accept or permit analysts to accept payment or reimbursement for travel expenses associated with these events.

Restrictions on certain Canadian securities are indicated by the following abbreviations: NVS--Non-Voting shares; RVS--Restricted Voting Shares; SVS--Subordinate Voting Shares.

Individuals receiving this report from a Canadian investment dealer that is not affiliated with Credit Suisse should be advised that this report may not contain regulatory disclosures the non-affiliated Canadian investment dealer would be required to make if this were its own report.

For Credit Suisse Securities (Canada), Inc.'s policies and procedures regarding the dissemination of equity research, please visit <https://www.credit-suisse.com/sites/disclaimers-ib/en/canada-research-policy.html>.

Principal is not guaranteed in the case of equities because equity prices are variable.

Commission is the commission rate or the amount agreed with a customer when setting up an account or at any time after that.

This research report is authored by:

Credit Suisse AG, Singapore Branch

Fahd Niaz, CFA

To the extent this is a report authored in whole or in part by a non-U.S. analyst and is made available in the U.S., the following are important disclosures regarding any non-U.S. analyst contributors:

The non-U.S. research analysts listed below (if any) are not registered/qualified as research analysts with FINRA. The non-U.S. research analysts listed below may not be associated persons of CSSU and therefore may not be subject to the FINRA 2241 and NYSE Rule 472 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account.

Credit Suisse AG, Singapore Branch

Fahd Niaz, CFA

Important disclosures regarding companies that are the subject of this report are available by calling +1 (877) 291-2683. The same important disclosures, with the exception of valuation methodology and risk discussions, are also available on Credit Suisse's disclosure website at <https://rave.credit-suisse.com/disclosures>. For valuation methodology and risks associated with any recommendation, price target, or rating referenced in this report, please refer to the disclosures section of the most recent report regarding the subject company.

This report is produced by subsidiaries and affiliates of Credit Suisse operating under its Global Markets Division. For more information on our structure, please use the following link: <https://www.credit-suisse.com/who-we-are>. This report may contain material that is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or which would subject Credit Suisse or its affiliates ("CS") to any registration or licensing requirement within such jurisdiction. All material presented in this report, unless specifically indicated otherwise, is under copyright to CS. None of the material, nor its content, nor any copy of it, may be altered in any way, transmitted to, copied or distributed to any other party, without the prior express written permission of CS. All trademarks, service marks and logos used in this report are trademarks or service marks or registered trademarks or service marks of CS or its affiliates. The information, tools and material presented in this report are provided to you for information purposes only and are not to be used or considered as an offer or the solicitation of an offer to sell or to buy or subscribe for securities or other financial instruments. CS may not have taken any steps to ensure that the securities referred to in this report are suitable for any particular investor. CS will not treat recipients of this report as its customers by virtue of their receiving this report. The investments and services contained or referred to in this report may not be suitable for you and it is recommended that you consult an independent investment advisor if you are in doubt about such investments or investment services. Nothing in this report constitutes investment, legal, accounting or tax advice, or a representation that any investment or strategy is suitable or appropriate to your individual circumstances, or otherwise constitutes a personal recommendation to you. CS does not advise on the tax consequences of investments and you are advised to contact an independent tax adviser. Please note in particular that the bases and levels of taxation may change.

Information and opinions presented in this report have been obtained or derived from sources believed by CS to be reliable, but CS makes no representation as to their accuracy or completeness. CS accepts no liability for loss arising from the use of the material presented in this report, except that this exclusion of liability does not apply to the extent that such liability arises under specific statutes or regulations applicable to CS. This report is not to be relied upon in substitution for the exercise of independent judgment. CS may have issued, and may in the future issue, other communications that are inconsistent with, and reach different conclusions from, the information presented in this report. Those communications reflect the different assumptions, views and analytical methods of the analysts who prepared them and CS is under no obligation to ensure that such other communications are brought to the attention of any recipient of this report. Some investments referred to in this report will be offered solely by a single entity and in the case of some investments solely by CS, or an associate of CS or CS may be the only market maker in such investments. Past performance should not be taken as an indication or guarantee of future performance, and no representation or warranty, express or implied, is made regarding future performance. Information, opinions and estimates contained in this report reflect a judgment at its original date of publication by CS and are subject to change without notice. The price, value of and income from any of the securities or financial instruments mentioned in this report can fall as well as rise. The value of securities and financial instruments is subject to exchange rate fluctuation that may have a positive or adverse effect on the price or income of such securities or financial instruments. Investors in securities such as ADR's, the values of which are influenced by currency volatility, effectively assume this risk. Structured securities are complex instruments, typically involve a high degree of risk and are intended for sale only to sophisticated investors who are capable of understanding and assuming the risks involved. The market value of any structured security may be affected by changes in economic, financial and political factors (including, but not limited to, spot and forward interest and exchange rates), time to maturity, market conditions and volatility, and the credit quality of any issuer or reference issuer. Any investor interested in purchasing a structured product should conduct their own investigation and analysis of the product and consult with their own professional advisers as to the risks involved in making such a purchase. Some investments discussed in this report may have a high level of volatility. High volatility investments may experience sudden and large falls in their value causing losses when that investment is realised. Those losses may equal your original investment. Indeed, in the case of some investments the potential losses may exceed the amount of initial investment and, in such circumstances, you may be required to pay more money to support those losses. Income yields from investments may fluctuate and, in consequence, initial capital paid to make the investment may be used as part of that income yield. Some investments may not be readily realisable and it may be difficult to sell or realise those investments, similarly it may prove difficult for you to obtain reliable information about the value, or risks, to which such an investment is exposed. This report may provide the addresses of, or contain hyperlinks to, websites. Except to the extent to which the report refers to website material of CS, CS has not reviewed any such site and takes no responsibility for the content contained therein. Such address or hyperlink (including addresses or hyperlinks to CS's own website material) is provided solely for your convenience and information and the content of any such website does not in any way form part of this document. Accessing such website or following such link through this report or CS's website shall be at your own risk.

This report is issued and distributed in **European Union (except Switzerland)**: by Credit Suisse Securities (Europe) Limited, One Cabot Square, London E14 4QJ, England, which is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. **Germany**: Credit Suisse (Deutschland) Aktiengesellschaft regulated by the Bundesanstalt fuer Finanzdienstleistungsaufsicht ("BaFin"). **United States and Canada**: Credit Suisse Securities (USA) LLC; **Switzerland**: Credit Suisse AG; **Brazil**: Banco de Investimentos Credit Suisse (Brasil) S.A or its affiliates; **Mexico**: Banco Credit Suisse (México), S.A. (transactions related to the securities mentioned in this report will only be effected in compliance with applicable regulation); **Japan**: by Credit Suisse Securities (Japan) Limited, Financial Instruments Firm, Director-General of Kanto Local Finance Bureau (Kinsho) No. 66, a member of Japan Securities Dealers Association, The Financial Futures Association of Japan, Japan Investment Advisers Association, Type II Financial Instruments Firms Association; **Hong Kong**: Credit Suisse (Hong Kong) Limited; **Australia**: Credit Suisse Equities (Australia) Limited; **Thailand**: Credit Suisse Securities (Thailand) Limited, regulated by the Office of the Securities and Exchange Commission, Thailand, having registered address at 990 Abdulrahim Place, 27th Floor, Unit 2701, Rama IV Road, Silom, Bangrak, Bangkok10500, Thailand, Tel. +66 2614 6000; **Malaysia**: Credit Suisse Securities (Malaysia) Sdn Bhd; **Singapore**: Credit Suisse AG, Singapore Branch; **India**: Credit Suisse Securities (India) Private Limited (CIN no.U67120MH1996PTC104392) regulated by the Securities and Exchange Board of India as Research Analyst (registration no. INH 000001030) and as Stock Broker (registration no. INB230970637; INF230970637; INB010970631; INF010970631), having registered address at 9th Floor, Ceejay House, Dr.A.B. Road, Worli, Mumbai - 18, India, T- +91-22 6777 3777; **South Korea**: Credit Suisse Securities (Europe) Limited, Seoul Branch; **Taiwan**: Credit Suisse AG Taipei Securities Branch; **Indonesia**: PT Credit Suisse Sekuritas Indonesia; **Philippines**: Credit Suisse Securities (Philippines) Inc., and elsewhere in the world by the relevant authorised affiliate of the above.

Additional Regional Disclaimers

Hong Kong: Credit Suisse (Hong Kong) Limited ("CSHK") is licensed and regulated by the Securities and Futures Commission of Hong Kong under the laws of Hong Kong, which differ from Australian laws. CSHK does not hold an Australian financial services licence (AFSL) and is exempt from the requirement to hold an AFSL under the Corporations Act 2001 (the Act) under Class Order 03/1103 published by the ASIC in respect of financial services provided to Australian wholesale clients (within the meaning of section 761G of the Act). Research on Taiwanese securities produced by Credit Suisse AG, Taipei Securities Branch has been prepared by a registered Senior Business Person.

Australia (to the extent services are offered in Australia): Credit Suisse Securities (Europe) Limited ("CSSEL") and Credit Suisse International ("CSI") are authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority ("FCA") and the Prudential Regulation Authority under UK laws, which differ from Australian Laws. CSSEL and CSI do not hold an Australian Financial Services Licence ("AFSL") and are exempt from the requirement to hold an AFSL under the Corporations Act (Cth) 2001 ("Corporations Act") under Class Order 03/1099 published by the Australian Securities and Investments Commission ("ASIC"), in respect of the financial services provided to Australian wholesale clients (within the meaning of section 761G of the Corporations Act). This material is not for distribution to retail clients and is directed exclusively at Credit Suisse's professional clients and eligible counterparties as defined by the FCA, and wholesale clients as defined under section 761G of the Corporations Act. Credit Suisse (Hong Kong) Limited ("CSHK") is licensed and regulated by the Securities and Futures Commission of Hong Kong under the laws of Hong Kong, which differ from Australian laws. CSHK does not hold an AFSL and is exempt from the requirement to hold an AFSL under the Corporations Act under Class Order 03/1103 published by the ASIC in respect of financial services provided to Australian wholesale clients (within the meaning of section 761G of the Corporations Act). Credit Suisse Securities (USA) LLC (CSSU) and Credit Suisse Asset Management LLC (CSAM LLC) are licensed and regulated by the Securities Exchange Commission of the United States under the laws of the United States, which differ from Australian laws. CSSU and CSAM LLC do not hold an AFSL and is exempt from the requirement to hold an AFSL under the Corporations Act under Class Order 03/1100 published by the ASIC in respect of financial services provided to Australian wholesale clients (within the meaning of section 761G of the Corporations Act).

Malaysia: Research provided to residents of Malaysia is authorised by the Head of Research for Credit Suisse Securities (Malaysia) Sdn Bhd, to whom they should direct any queries on +603 2723 2020.

Singapore: This report has been prepared and issued for distribution in Singapore to institutional investors, accredited investors and expert investors (each as defined under the Financial Advisers Regulations) only, and is also distributed by Credit Suisse AG, Singapore Branch to overseas investors (as defined under the Financial Advisers Regulations). Credit Suisse AG, Singapore Branch may distribute reports produced by its foreign entities or affiliates pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Singapore recipients should contact Credit Suisse AG, Singapore Branch at +65-6212-2000 for matters arising from, or in connection with, this report. By virtue of your status as an institutional investor, accredited investor, expert investor or overseas investor, Credit Suisse AG, Singapore Branch is exempted from complying with certain compliance requirements under the Financial Advisers Act, Chapter 110 of Singapore (the "FAA"), the Financial Advisers Regulations and the relevant Notices and Guidelines issued thereunder, in respect of any financial advisory service which Credit Suisse AG, Singapore Branch may provide to you.

EU: This report has been produced by subsidiaries and affiliates of Credit Suisse operating under its Global Markets Division

In jurisdictions where CS is not already registered or licensed to trade in securities, transactions will only be effected in accordance with applicable securities legislation, which will vary from jurisdiction to jurisdiction and may require that the trade be made in accordance with applicable exemptions from registration or licensing requirements.

This material is issued and distributed in the U.S. by CSSU, a member of NYSE, FINRA, SIPC and the NFA, and CSSU accepts responsibility for its contents. Clients should contact analysts and execute transactions through a Credit Suisse subsidiary or affiliate in their home jurisdiction unless governing law permits otherwise.

Please note that this research was originally prepared and issued by CS for distribution to their market professional and institutional investor customers. Recipients who are not market professional or institutional investor customers of CS should seek the advice of their independent financial advisor prior to taking any investment decision based on this report or for any necessary explanation of its contents. This research may relate to investments or services of a person outside of the UK or to other matters which are not authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority or in respect of which the protections of the Prudential Regulation Authority and Financial Conduct Authority for private customers and/or the UK compensation scheme may not be available, and further details as to where this may be the case are available upon request in respect of this report.

CS may provide various services to US municipal entities or obligated persons ("municipalities"), including suggesting individual transactions or trades and entering into such transactions. Any services CS provides to municipalities are not viewed as "advice" within the meaning of Section 975 of the Dodd-Frank Wall Street Reform and Consumer Protection Act. CS is providing any such services and related information solely on an arm's length basis and not as an advisor or fiduciary to the municipality. In connection with the provision of the any such services, there is no agreement, direct or indirect, between any municipality (including the officials, management, employees or agents thereof) and CS for CS to provide advice to the municipality. Municipalities should consult with their financial, accounting and legal advisors regarding any such services provided by CS. In addition, CS is not acting for direct or indirect compensation to solicit the municipality on behalf of an unaffiliated broker, dealer, municipal securities dealer, municipal advisor, or investment adviser for the purpose of obtaining or retaining an engagement by the municipality for or in connection with Municipal Financial Products, the issuance of municipal securities, or of an investment adviser to provide investment advisory services to or on behalf of the municipality. If this report is being distributed by a financial institution other than Credit Suisse AG, or its affiliates, that financial institution is solely responsible for distribution. Clients of that institution should contact that institution to effect a transaction in the securities mentioned in this report or require further information. This report does not constitute investment advice by Credit Suisse to the clients of the distributing financial institution, and neither Credit Suisse AG, its affiliates, and their respective officers, directors and employees accept any liability whatsoever for any direct or consequential loss arising from their use of this report or its content. Principal is not guaranteed. Commission is the commission rate or the amount agreed with a customer when setting up an account or at any time after that. No information or communication provided herein or otherwise is intended to be, or should be construed as, a recommendation within the meaning of the US Department of Labor's final regulation defining "investment advice" for purposes of the Employee Retirement Income Security Act of 1974, as amended and Section 4975 of the Internal Revenue Code of 1986, as amended, and the information provided herein is intended to be general information, and should not be construed as, providing investment advice (impartial or otherwise).

Copyright © 2018 CREDIT SUISSE AG and/or its affiliates. All rights reserved.

Investment principal on bonds can be eroded depending on sale price or market price. In addition, there are bonds on which investment principal can be eroded due to changes in redemption amounts. Care is required when investing in such instruments.

When you purchase non-listed Japanese fixed income securities (Japanese government bonds, Japanese municipal bonds, Japanese government guaranteed bonds, Japanese corporate bonds) from CS as a seller, you will be requested to pay the purchase price only.

Article intended for:
tanveer#msn.masangroup.com