# ANANDRATHI

**India | Equities** 

## Cement Result Update

Change in Estimates 🗹 Target 🗹 Reco 🗆

27 June 2020

## **Sanghi Industries**

Operating performance getting back on track; high leverage to continue; Buy

The demand slump in Sanghi's operating region and lockdown in Mar'20 pulled Q4 volumes down 24% y/y. On higher realisations, savings in logistics and advertising costs, however, and a low base, the operating performance was good with 12% y/y EBITDA growth. The ongoing Kutch expansion was further delayed by the lockdown. Demand revival and labour will be key things to watch. We retain our Buy, with a higher TP of ₹37 (earlier ₹30), 9x FY22e EV/EBITDA.

**Expansion further delayed.** The lockdown and labour delayed the Kutch expansion (2m tons GU and 3.3m tons clinker) by a further 4-5 months. It is now expected to commence in Q3 FY21. Management said ramping up is not the issue due to low capacity addition (JK Cements, 0.7m tons in Balasinor) and option to export clinker to Bangladesh, Sri Lanka or the Middle-East. The Surat GU continues to be deferred due to low demand.

**Good operating performance.** Despite revenue dipping 20% y/y, on firm prices and cost curtailment, EBITDA/ton was ₹960, up 47% y/y. Volumes were 26% lower in FY20. We expect them to fall only 4% in FY21 (on the low base) and grow 32% in FY22 due to the ramping up of new capacity. We expect a good EBITDA/ton: ₹859 in FY21, ₹969 in FY22 (₹980 in FY20).

**Outlook, Valuation.** Debt is expected to be high (for working capital and the ongoing expansion). The company has applied for a moratorium on loan repayment. It is operating at 80% clinker capacity; in FY20, capacity utilisation was 50%. Being the third-largest in Gujarat, it will be the key beneficiary when demand improves. However, higher debt, new capacity commencing and funds deployed for the expansion will squeeze profits on higher depreciation/interest cost and lower other income. We maintain our Buy rating at a target of ₹37, based on 9x FY22e EV/EBITDA. **Risks:** Extension of the lockdown; rising costs.

Key financials (YE Mar)	FY18	FY19	FY20	FY21e	FY22e
Sales (₹ m)	10,264	10,610	8,875	8,713	11,774
Net profit (₹ m)	933	526	654	-121	448
EPS (₹)	3.7	2.1	2.6	-0.5	1.8
PE (x)	31.5	29.7	7.2	NA	14.8
EV / EBITDA (x)	15.2	14.3	8.7	12.1	7.9
EV / ton (\$)	105.1	70.5	53.7	42.4	41.1
RoE (%)	6.9	3.2	3.9	-0.7	2.6
RoCE (%)	7.3	3.6	5.0	2.1	4.0
Dividend yield (%)	-	-	-	-	-
Net debt/equity (x)	0.2	0.4	0.7	0.8	0.7
Source: Company, Anand Rathi Resear	ch				

Rating: <b>Buy</b>
Target Price: ₹37
Share Price: ₹26

Key data	SNGI IN / SNGL.BO
52-week high / low	₹68 / 14
Sensex / Nifty	35171 / 10383
3-m average volume	\$0.3m
Market cap	₹7bn / \$87.6m
Shares outstanding	251m

Mar'20	Dec'19	Sept'19
70.3	68.7	68.7
92.2	94.4	94.4
29.7	31.3	31.3
4.0	4.0	4.6
12.7	13.1	13.0
13.0	14.2	13.8
	70.3 92.2 29.7 4.0 12.7	70.3 68.7   92.2 94.4   29.7 31.3   4.0 4.0   12.7 13.1

Estimates revision (%)	FY21e	FY22e
Sales	2.3	1.9
EBITDA	21.1	13.9
PAT	NA	9.6



Research Analyst Vibha Jain

Research Associate

Manish Valecha

Anand Rathi Share and Stock Brokers Limited (hereinafter "ARSSBL") is a full-service brokerage and equities-research firm and the views expressed therein are solely of ARSSBL and not of the companies which have been covered in the Research Report. This report is intended for the sole use of the Recipient. Disclosures and analyst certifications are present in the Appendix.

## **Quick Glance – Financials and Valuations**

Fig 1 – Income staten	nent (₹ m	I)			
Year-end: Mar	FY18	FY19	FY20	FY21e	FY22e
Sales volumes (m tons)	2.5	2.7	2.0	1.9	2.5
Net revenues	10,264	10,610	8,875	8,713	11,774
Growth (%)	3.2	3.4	-16.3	-1.8	35.1
Direct costs	6,889	8,073	5,827	5,783	7,735
SG&A	1,216	997	1,119	1,305	1,614
EBITDA	2,158	1,540	1,929	1,624	2,425
EBITDA margins (%)	21.0	14.5	21.7	18.6	20.6
- Depreciation	724	713	621	881	976
Other income	220	273	125	87	130
Interest expenses	721	573	780	979	1,032
PBT	933	526	654	-148	546
Effective tax rate (%)	0.00	0.00	0.00	18.00	18.00
+ Associates / (Minorities)	-	-	-	-	-
Net income	933	526	654	-121	448
Adjusted income	933	526	654	-121	448
WANS	251	251	251	251	251
FDEPS (₹ / sh)	3.7	2.1	2.6	-0.5	1.8
FDEPS growth (%)	30	-44	24	-119	-469

Year-end: Mar	FY18	FY19	FY20	FY21e	FY22e
PBT	933	526	654	-148	546
+ Non-cash items	724	713	621	881	976
Oper. prof. before WC	1,657	1,239	1,274	733	1,522
- Incr. / (decr.) in WC	382	1,106	-404	-219	337
Others incl. taxes	-	-	-	-27	98
Operating cash-flow	1,275	133	1,679	978	1,087
- Capex (tang. + intang.)	2,557	3,109	7,305	2,000	500
Free cash-flow	-1,282	-2,976	-5,627	-1,022	587
Acquisitions					
- Div.(incl. buyback & taxes)	-	-	-	-	-
+ Equity raised	4,002	-	-	-	-
+ Debt raised	1,408	353	4,503	700	-
- Fin investments	-	-	-	-	-
- Misc. (CFI + CFF)	10	-9	4	0	-0
Net cash-flow	4,118	-2,614	-1,127	-322	587

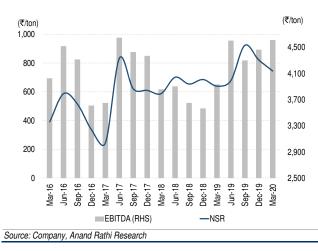
### Fig 5 – Price movement



Year-end: Mar	FY18	FY19	FY20	FY21e	FY22e
Share capital	2,510	2,510	2,510	2,510	2,510
Net worth	15,979	16,504	17,154	17,032	17,480
Debt	7,672	8,025	12,528	13,228	13,228
Minority interest	-	-	-	-	-
DTL / (Assets)	-871	-860	-860	-860	-860
Capital employed	22,780	23,668	28,821	29,400	29,847
Net tangible assets	15,087	16,051	17,062	27,722	27,246
Net intangible assets	-	-	-	-	-
Goodwill	-	-	-	-	-
CWIP (tang. & intang.)	2,936	4,368	10,041	500	500
Investments (strategic)	-	-	-	-	-
Investments (financial)	-	-	-	-	-
Current assets (ex cash)	3,369	5,213	5,540	4,540	6,135
Cash	4,281	1,667	539	218	805
Current liabilities	2,892	3,630	4,361	3,581	4,839
Working capital	476	1,583	1,178	960	1,297
Capital deployed	22,780	23,668	28,821	29,400	29,847
Contingent liabilities	1200	1070	-	-	-

### Fig 4 – Ratio analysis

Year-end: Mar	FY18	FY19	FY20	FY21e	FY22e
P/E (x)	31.5	29.7	7.2	NA	14.8
EV / EBITDA (x)	15.2	14.3	8.7	12.1	7.9
EV / Sales (x)	3.2	2.1	1.9	2.3	1.6
P/B (x)	1.8	0.9	0.3	0.4	0.4
RoE (%)	6.9	3.2	3.9	-0.7	2.6
RoCE (%) - after tax	7.3	3.6	5.0	2.1	4.0
DPS (₹ / sh)	-	-	-	-	-
Dividend payout (%) - incl. DDT	-	-	-	-	-
Net debt / equity (x)	0.2	0.4	0.7	0.8	0.7
WC days	17	54	48	40	40
EV / ton (\$)	105.1	70.5	53.7	42.4	41.1
NSR / ton (₹)	4,116	3,973	4,508	4,608	4,708
EBITDA / ton (₹)	865	577	980	859	969
Volumes (m tons)	2.49	2.67	1.97	1.89	2.50
CFO: PAT (%)	136.6	25.3	256.9	-805.9	242.8
Source: Company, Anand Rathi Resea	ırch				

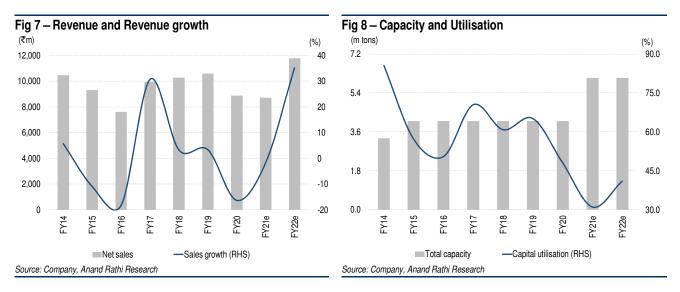


## Fig 6 – Quarterly per-ton NSR and EBITDA trends

## Key highlights

#### **Revenue growth**

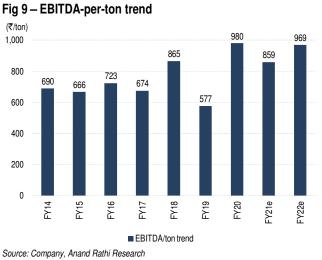
The lockdown, lower demand and maintenance shutdown drove volumes down 24% y/y in Q4 FY20 to 0.54m tons, leading to revenue falling 20% y/y to ₹2.2bn. However, on firm prices y/y, realisation/ton increased 6% y/y. The company sold 90% volumes in Gujarat, vs 83% a year ago. While April was a washout, the clinker plant operated at 80% capacity in May/June. Management said the higher utilisation and new clinker capacity would take care of requirements and it would not have to purchase clinker. In FY20, it purchased 115,000 tons of clinker, resulting in higher costs of ₹70m-80m.



### **Operating performance**

Q4 FY20 per-ton EBITDA shot up 47.4% y/y to ₹960. EBITDA grew 12% y/y to ₹514m on higher realisations and 14.6% y/y savings in freight cost/ton. Raw material costs increased mainly due to the purchase of clinker. The per-ton fixed-cost increase was due to lower absorption because of low volumes.

Adj. PAT declined 40% y/y to ₹158m. Interest cost increased 59% y/y on discontinuation of interest capitalisation (when the WHRS/Silo commenced) and higher working capital as monies were used for the expansion. Other income plunged 68% y/y due to funds deployed for the expansion. The nil tax expense continued on brought-forward losses and unabsorbed depreciation expenses.





## Result Highlights

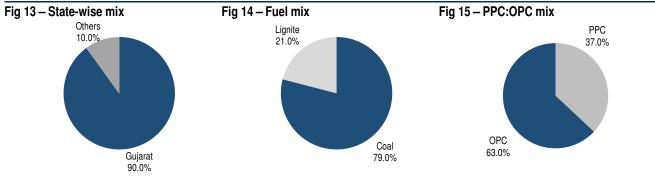
Fig 11 – Quarterly	trend												
( <b>₹</b> m)	Q2 FY18	Q3 FY18	Q4 FY18	Q1 FY19	Q2 FY19	Q3 FY19	Q4 FY19	Q1 FY20	Q2 FY20	Q3 FY20	Q4 FY20	% Y/Y	% Q/Q
Sales	2,056	2,796	2,741	2,748	2,441	2,661	2,760	2,741	2,047	1,872	2,216	(19.7)	18.4
EBITDA	467	618	657	434	324	321	460	657	370	388	514	11.7	32.6
EBITDA margins (%)	22.7	22.1	24.0	15.8	13.3	12.1	16.7	24.0	18.1	20.7	23.2	653bps	249bps
Interest	188.8	172.6	170.7	122.9	167.5	146.7	135.7	170.7	185.0	208.0	216.0	59.2	3.8
Depreciation	180	181	145	195	198	187	134	145	157	155	164	22.1	5.6
Other income	11.4	57.0	42.2	82.7	61.2	55.0	73.8	42.2	34.4	24.3	23.7	(67.8)	(2.1)
РВТ	109	322	384	199	20	43	264	384	62	49	158	(40.1)	222.8
Tax	-	-	-	-	-	-	-	-	-	-	-	NA	NA
Adj. PAT	109	322	384	199	20	43	264	384	62	49	158	(40.1)	222.8
Source: Company, Anand I	Rathi Researd	ch											

Fig 12 - Per-ton an	alysis												
( <b>₹</b> m)	Q2 FY18	Q3 FY18	Q4 FY18	Q1 FY19	Q2 FY19	Q3 FY19	Q4 FY19	Q1 FY20	Q2 FY20	Q3 FY20	Q4 FY20	% Y/Y	% Q/Q
Realisation per ton	3,865	3,841	3,988	4,042	3,937	4,007	3,906	3,988	4,528	4,307	4,138	5.9	(3.9)
EBITDA per ton	877	849	956	638	523	484	651	956	819	892	960	47.4	7.6
Sales volumes (m tons)	0.5	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.5	0.4	0.5	(24.2)	23.2
Costs													
Raw material	241	245	283	297	355	327	342	283	397	705	512	49.7	(27.3)
Power & Fuel	861	811	913	1,210	1,251	1,034	955	913	1,146	1,110	988	3.4	(11.0)
Freight	1,275	1,250	1,448	1,508	1,573	1,493	1,363	1,448	1,365	1,272	1,164	(14.6)	(8.5)
Staff	256	175	178	178	173	128	141	178	275	283	207	47.4	(26.7)
Stores & consumable	216	182	157	172	186	162	145	157	196	171	164	12.8	(4.4)
Other expense	339	254	262	249	221	125	261	262	301	317	338	29.8	6.8
Source: Company, Anand Ra	athi Research	1				_							

## **Con-call highlights**

### **Operational highlights**

- Cement sales volumes in Q4 FY20 fell 24% to 0.54m tons, and 26% in FY20 to 1.97m tons.
- Capacity utilisation was 50% in FY20. In May and June, the clinker plant operated at 80% capacity.
- The fuel mix was  $\sim 21\%$  lignite,  $\sim 79\%$  imported coal.
- The geographical sales-mix was Gujarat 90% (83% a year back), Maharashtra/Kerala/Rajasthan 10%.
- The PPC/OPC mix was 37:63.
- On the plant shutdown and lower production (because of the extended monsoon/cyclone in Q2 and Q3, 115,000 tons of clinker were purchased in FY20, resulting in `700m-800m higher costs. Management expects this to be a one-time expense. In FY21, the new clinker plant will come up, and clinker clinker plant is running at 80%.
- Of its cement sales volumes, 21% was bulk cement, which helped reduce packaging costs.
- Finance cost increased 59% y/y owing to the discontinuation of interest capitalisation (on the WHRS commencement, etc.) and increase of working capital as funds were deployed towards the expansion.
- The company has 1bn tons of limestone reserves at Kutch, sufficient for the next 50 years.
- Gujarat sold 21m tons in FY20, down 10% y/y. (Ultratech has a 38% market share in Gujarat.)
- Due to brought-forward depreciation and losses, the tax liability was nil.



Source: Company, Anand Rathi Research

### **Capex and Financial highlights**

- Gross debt includes ₹10bn term debt and ₹2.5bn for working capital. Management said term debt would further increase by ₹1bn on the ongoing expansion. Interest cost of debt is 10.5%.
- The company has applied for a moratorium and said it had a debt repayment liability in FY21 of ₹1.25bn.

- The Kutch GU (2m tons) and clinker plant (3.3m tons) are expected to be ready by Q3 FY21 (earlier Q2 FY21). Management said it would incur capex of ₹1.75bn-2bn on expansion, apart from maintenance capex.
- Weak demand drove the company to defer its Surat GU (2m tons) expansion. Land procurement and environment clearance has been done for the Surat GU. It will take another 12-15 months to commence commercial operations once construction resumes. The company has spent ₹500m on land procurement; a further ₹2.5bn is required.

## Outlook

- No new capacities except JK Cement's Balasinor unit will come up in the company's markets.
- Labour unavailability and restricted inter-regional movement delayed the completion of the Kutch GU.
- The company is not exporting clinker to any other country. Management said that ramping up will not be an issue for the new capacities as clinker exports (to Sri Lanka, Bangladesh and the Middle East) are possible. However, in the near term that will be difficult.
- The company purchased coal in March and April and now has stock till Q2 FY21.

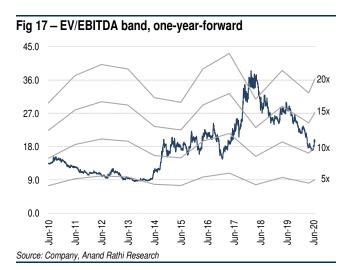
## **Valuations**

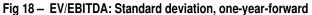
At the CMP, the stock trades at an EV/EBITDA of 7.9x and an EV/ton of \$41. We arrive at a target of ₹37, based on 9x FY22e EV/EBITDA. The implied valuation of the cement business is EV/ton of \$47. We maintain our Buy recommendation.

### **Change in estimates**

We have increased our FY21e and FY22e revenue 2.3% and 1.9% respectively, EBITDA 21.1% and 13.9% and FY22e PAT 9.6%.

Fig 16 – Change in estir	nates						
_	Old		New		Variance		
(₹ m)	FY21e	FY22e	FY21e	FY22e	% chg	% chg	
Sales	8,517	11,556	8,713	11,774	2.3	1.9	
EBITDA	1,341	2,129	1,624	2,425	21.1	13.9	
PAT	(181)	409	(121)	448	NA	9.6	
Source: Anand Rathi Research							







	CMP (₹)	P/E (x)		EV / EBITDA (x)		EV / ton (\$)	
		FY21e	FY22e	FY21e	FY22e	FY21e	FY22e
Sanghi Industries	26	NA	14.8	12.1	7.9	42	41
Birla Corp.	597	18.8	13.5	8.1	6.7	60	50
Dalmia Bharat	700	NA	NA	9.4	7.7	93	78
Deccan Cement	271	12.7	8.2	5.7	3.7	20	18
Heidelberg Cement	181	22.8	15.5	10.5	8.0	82	77
India Cement	125	NA	43.2	14.1	10.5	60	60
JK Cement	1,366	28.5	18.1	13.8	10.0	108	102
JK Lakshmi	256	43.1	12.7	9.9	5.6	46	39
Mangalam Cement	192	13.9	7.8	6.8	4.8	36	33
NCL Indus	75	11.2	5.9	5.2	3.5	26	23
Orient Cement	77	100.0	22.6	9.7	7.2	43	41
Prism Johnson	48	NA	29.2	10.9	7.9	52	49
Ramco Cement	642	36.0	23.7	20.1	14.0	117	112

#### Risks

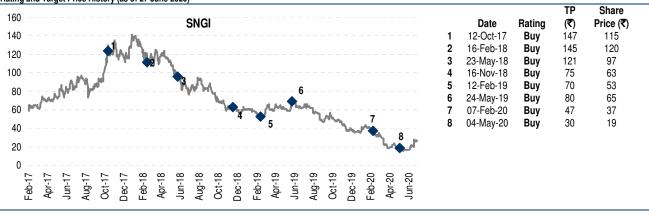
- Extension of the lockdown
- Higher operational costs and lignite non-availability.

#### Appendix

#### Analyst Certification

The views expressed in this Research Report accurately reflect the personal views of the analyst(s) about the subject securities or issuers and no part of the compensation of the research analyst(s) was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the research analyst(s) in this report. The research analysts are bound by stringent internal regulations and also legal and statutory requirements of the Securities and Exchange Board of India (hereinafter "SEBI") and the analysts' compensation are completely delinked from all the other companies and/or entities of Anand Rathi, and have no bearing whatsoever on any recommendation that they have given in the Research Report.

#### Important Disclosures on subject companies Rating and Target Price History (as of 27 June 2020)



#### Anand Rathi Ratings Definitions

Analysts' ratings and the corresponding expected returns take into account our definitions of Large Caps (>US\$1bn) and Mid/Small Caps (<US\$1bn) as described in the Ratings Table below:

Ratings Guide (12 months)				
	Buy	Hold	Sell	
Large Caps (>US\$1bn)	>15%	5-15%	<5%	
Mid/Small Caps ( <us\$1bn)< td=""><td>&gt;25%</td><td>5-25%</td><td>&lt;5%</td><td></td></us\$1bn)<>	>25%	5-25%	<5%	

#### Research Disclaimer and Disclosure inter-alia as required under Securities and Exchange Board of India (Research Analysts) Regulations, 2014

Anand Rathi Share and Stock Brokers Ltd. (hereinafter refer as ARSSBL) (Research Entity) is a subsidiary of Anand Rathi Financial Services Ltd. ARSSBL is a corporate trading and clearing member of Bombay Stock Exchange Ltd, National Stock Exchange of India Ltd. (NSEL), Multi Stock Exchange of India Ltd (MCX-SX) and also depository participant with National Securities Depository Ltd (NSDL) and Central Depository Services Ltd. ARSSBL is engaged in the business of Stock Broking, Depository Participant and Mutual Fund distributor.

The research analysts, strategists, or research associates principally responsible for the preparation of Anand Rathi research have received compensation based upon various factors, including quality of research, investor client feedback, stock picking, competitive factors and firm revenues.

General Disclaimer: This Research Report (hereinafter called "Report") is meant solely for use by the recipient and is not for circulation. This Report does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of individual clients. The recommendations, if any, made herein are expression of views and/or opinions and should not be deemed or construed to be neither advice for the purpose of purchase or sale of any security, derivatives or any other security through ARSSBL nor any solicitation or offering of any investment /trading opportunity on behalf of the issuer(s) of the respective security (ies) referred to herein. These information / opinions / views are not meant to serve as a professional investment guide for the readers. No action is solicited based upon the information provided herein. Recipients of this Report should rely on information/data arising out of their own investigations. Readers are advised to seek independent professional advice and arrive at an informed trading/investment decision before executing any trades or making any investments. This Report has been prepared on the basis of publicly available information, internally developed data and other sources believed by ARSSBL to be reliable. ARSSBL or its directors, employees, affiliates or representatives do not assume any responsibility for, or warrant the accuracy, completeness, adequacy and reliability of such information / opinions / views. While due care has been taken to ensure that the disclosures and opinions given are fair and reasonable, none of the directors, employees, affiliates or representatives of ARSSBL shall be liable for any direct, indirect, special, incidental, consequential, punitive or exemplary damages, including lost profits arising in any way whatsoever from the information / opinions / views contained in this Report. The price and value of the investment referred to in this Report and the income from them may go down as well as up, and i

Opinions expressed are our current opinions as of the date appearing on this Research only. We do not undertake to advise you as to any change of our views expressed in this Report. Research Report may differ between ARSSBL's RAs and/ or ARSSBL's associate companies on account of differences in research methodology, personal judgment and difference in time horizons for which recommendations are made. User should keep this risk in mind and not hold ARSSBL, its employees and associates responsible for any losses, damages of any type whatsoever.

ARSSBL and its associates or employees may; (a) from time to time, have long or short positions in, and buy or sell the investments in/ security of company (ies) mentioned herein or (b) be engaged in any other transaction involving such investments/ securities of company (ies) discussed herein or act as advisor or lender / borrower to such company (ies) these and other activities of ARSSBL and its associates or employees may not be construed as potential conflict of interest with respect to any recommendation and related information and opinions. Without limiting any of the foregoing, in no event shall ARSSBL and its associates or employees or any third party involved in, or related to computing or compiling the information have any liability for any damages of any kind.

Details of Associates of ARSSBL and Brief History of Disciplinary action by regulatory authorities & its associates are available on our website i.e. www.rathionline.com

Disclaimers in respect of jurisdiction: This report 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 ARSSBL to any registration or licensing requirement within such jurisdiction(s). No action has been or will be taken by ARSSBL in any jurisdiction (other than India), where any action for such purpose(s) is required. Accordingly, this Report shall not be possessed, circulated and/or distributed in any such country or jurisdiction unless such action is in compliance with all applicable laws and regulations of such country or jurisdiction. ARSSBL requires such recipient to inform himself about and to observe any restrictions at his own expense, without any liability to ARSSBL. Any dispute arising out of this Report shall be subject to the exclusive jurisdiction of the Courts in India.

#### Statements on ownership and material conflicts of interest, compensation - ARSSBL and Associates

#### Answers to the Best of the knowledge and belief of ARSSBL/ its Associates/ Research Analyst who is preparing this report

Research analyst or research entity or his associate or his relative has any financial interest in the subject company and the nature of such financial interest.	No
ARSSBL/its Associates/ Research Analyst/ his Relative have actual/beneficial ownership of one per cent or more securities of the subject company, at the end of the month immediately preceding the date of publication of the research report?	No
ARSSBL/its Associates/ Research Analyst/ his Relative have actual/beneficial ownership of one per cent or more securities of the subject company	No
ARSSBL/its Associates/ Research Analyst/ his Relative have any other material conflict of interest at the time of publication of the research report?	No
ARSSBL/its Associates/ Research Analyst/ his Relative have received any compensation from the subject company in the past twelve months	No
ARSSBL/its Associates/ Research Analyst/ his Relative have managed or co-managed public offering of securities for the subject company in the past twelve months	No
ARSSBL/its Associates/ Research Analyst/ his Relative have received any compensation for investment banking or merchant banking or brokerage services from the subject company in the past twelve months	No
ARSSBL/its Associates/ Research Analyst/ his Relative have received any compensation for products or services other than investment banking or merchant banking or banking or brokerage services from the subject company in the past twelve months	No
ARSSBL/its Associates/ Research Analyst/ his Relative have received any compensation or other benefits from the subject company or third party in connection with the research report	No
ARSSBL/its Associates/ Research Analyst/ his Relative have served as an officer, director or employee of the subject company.	No

#### Other Disclosures pertaining to distribution of research in the United States of America

This research report is a product of ARSSBL, which is the employer of the research analyst(s) who has prepared the research report. The research analyst(s) preparing the research report is/are resident outside the United States (U.S.) and are not associated persons of any U.S. regulated broker-dealer and therefore the analyst(s) is/are not subject to supervision by a U.S. broker-dealer, and is/are not required to satisfy the regulatory licensing requirements of FINRA or required to otherwise comply with U.S. rules or regulations regarding, among other things, communications with a subject company, public appearances and trading securities held by a research analyst account.

This report is intended for distribution by ARSSBL only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the U.S. Securities and Exchange Act, 1934 (the Exchange Act) and interpretations thereof by U.S. Securities and Exchange Commission (SEC) in reliance on Rule 15a 6(a)(2). If the recipient of this report is not a Major Institutional Investor as specified above, then it should not act upon this report and return the same to the sender. Further, this report may not be copied, duplicated and/or transmitted onward to any U.S. person, which is not the Major Institutional Investor.

In reliance on the exemption from registration provided by Rule 15a-6 of the Exchange Act and interpretations thereof by the SEC in order to conduct certain business with Major Institutional Investors, ARSSBL has entered into an agreement with a U.S. registered broker-dealer, Cabrera Capital Markets. ("Cabrera"). Transactions in securities discussed in this research report should be effected through Cabrera or another U.S. registered broker dealer.

1. ARSSBL or its Affiliates may or may not have been beneficial owners of the securities mentioned in this report.

2. ARSSBL or its affiliates may have or not managed or co-managed a public offering of the securities mentioned in the report in the past 12 months.

3. ARSSBL or its affiliates may have or not received compensation for investment banking services from the issuer of these securities in the past 12 months and do not expect to receive compensation for investment banking services from the issuer of these securities within the next three months.

4. However, one or more of ARSSBL or its Affiliates may, from time to time, have a long or short position in any of the securities mentioned herein and may buy or sell those securities or options thereon, either on their own account or on behalf of their clients.

5. As of the publication of this report, ARSSBL does not make a market in the subject securities.

6. ARSSBL or its Affiliates may or may not, to the extent permitted by law, act upon or use the above material or the conclusions stated above, or the research or analysis on which they are based before the material is published to recipients and from time to time, provide investment banking, investment management or other services for or solicit to seek to obtain investment banking, or other securities business from, any entity referred to in this report.

© 2019. This report is strictly confidential and is being furnished to you solely for your information. All material presented in this report, unless specifically indicated otherwise, is under copyright to ARSSBL. None of the material, its content, or any copy of such material or content, may be altered in any way, transmitted, copied or reproduced (in whole or in part) or redistributed in any form to any other party, without the prior express written permission of ARSSBL. All trademarks, service marks and logos used in this report are trademarks or service marks or service marks or service marks or service.

Additional information on recommended securities/instruments is available on request.

ARSSBL registered address: Express Zone, A Wing, 9th Floor, Western Express Highway, Diagonally Opposite Oberoi Mall, Malad (E), Mumbai – 400097. Tel No: +91 22 6281 7000 | Fax No: +91 22 4001 3770 | CIN: U67120MH1991PLC064106.