ANANDRATHI

25 October 2020

Specialty Chemicals

Company Update

Change in Estimates 🗹 Target 🗹 Reco 🗹

India | Equities

Atul

Margins surprise, positive on growth; upgrading to a Buy

Atul's Q2 revenue/EBITDA/PAT recovered well, rising 52%/65%/ 48% q/q even as low demand from certain user industries tempered its y/y performance. We are upbeat on its future performance, considering its greater focus on retail and branded products, ongoing capex to support revenue growth coupled with strong performances across business verticals, subsidiaries, Associates and JVs. We upgrade our recommendation to a Buy, at a target of Rs7,500 (earlier Rs5,550), valuing the stock at 25x FY23e EPS.

Mixed segment performance. Atul's Q2 revenue was Rs10bn, down 4.2% y/y (but q/q up 51.7%) on the soft showing in Performance & Other chemicals. Life-science chemicals revenue grew 5.3% y/y, 28.3% q/q while that of Performance & Other chemicals slipped 7.7% y/y, though q/q up 64%. Ahead, we expect revenue to clock a 16.6% CAGR over FY21-23 supported by capex, greater utilisation of present capacities, rising share of its retail business, value-added and high-margin products.

The highest EBITDA margin. Q2 and H1 FY21 EBITDA margins were 26.1% and 25.3% respectively, up from 21.5% and 22.3% a year ago. The fall in raw-material prices, better realisations, a change in the product mix and operating efficiencies resulted in the margin expansion. Considering the current revival in Q2, the H1 performance and management's guidance at the AGM, we raise our EBITDA margin to 23.5% for FY21 and 24% for FY22.

Outlook, Valuation. Extension of existing products to complementary segments, greater acceptance of brand-named products and capacity expansions would drive growth. We expect sales/EBITDA/PAT to grow 17%/18%/16% We roll forward our valuation to FY23 and assign a Buy rating with a higher target of Rs7,500, ascribing an implied multiple of 25x FY23e EPS and 15.4x FY23e EV/EBITDA. **Risks:** Drop in spreads of major products, delay in capex and debottlenecking implementation, erratic increase in crude and derivatives prices.

Key financials (YE Mar)	FY19	FY20	FY21e	FY22e	FY23e
Sales (Rs m)	40,378	40,931	41,593	49,296	56,545
Net profit (Rs m)	4,322	6,665	6,623	7,841	8,907
EPS (Rs)	145.6	224.5	223.2	264.2	300.1
PE (x)	42.0	27.2	27.4	23.2	20.4
EV / EBITDA (x)	23.4	19.5	17.8	14.6	12.4
PBV (x)	6.7	5.8	4.8	4.1	3.5
RoE (%)	16.0	21.1	17.7	17.7	17.0
RoCE (%)	16.4	21.3	18.0	18.1	17.6
Dividend yield (%)	0.2	0.4	0.4	0.5	0.6
Net debt / equity (x)	-	-	-	-	-
Source: Company, Anand Rathi Research					

Rating: **Buy** Target Price: Rs7,500 Share Price: Rs6,118

Key data	A	TLP IN / A	ATLP.BO					
52-week high / low	Rs7021 / 2923							
Sensex / Nifty	40686 / 11930							
3-m average volume	\$4.9m							
Market cap	R	Rs181bn / \$2465m						
Shares outstanding			30m					
Shareholding pattern (%)	Sep'20	Jun'20	Mar'20					
Promoters	44.8	44.8	44.8					
- of which, Pledged	5.3	3.8	3.8					
Even de el	FF 0							

Free float	55.2	55.2	55.2
- Foreign institutions	8.2	6.7	6.9
- Domestic institutions	23.4	25.3	24.5
- Public	23.6	23.2	23.8

Estimates revision (%)	FY21e	FY22e
Sales	(5.6)	(5.4)
EBITDA	0.8	3.2
EPS	(0.3)	2.4



Nav Bhardwaj Research Analyst

Bhawana Israni Research Associate

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 statement (Rs m)									
Year-end: Mar	FY19	FY20	FY21e	FY22e	FY23e				
Net revenues	40,378	40,931	41,593	49,296	56,545				
Growth (%)	22.5	1.4	1.6	18.5	14.7				
Direct costs	21,061	19,700	19,341	22,676	26,011				
SG&A	11,650	12,210	12,478	14,789	16,963				
EBITDA	7,668	9,020	9,774	11,831	13,571				
EBITDA margins (%)	19.0	22.0	23.5	24.0	24.0				
- Depreciation	1,189	1,302	1,717	2,310	2,778				
Other income	349	780	832	986	1,131				
Interest expenses	74	94	87	87	87				
PBT	6,753	8,404	8,802	10,420	11,837				
Effective tax rate (%)	36.2	20.8	25.0	25.0	25.0				
+ Associates / (Minorities)	12	5	22	26	29				
Net income	4,322	6,665	6,623	7,841	8,907				
Adjusted income	4,322	6,665	6,623	7,841	8,907				
WANS	30	29.7	30	30	30				
FDEPS (₹ / sh)	145.6	224.5	223.2	264.2	300.1				
FDEPS growth (%)	56.3	54.2	-0.6	18.4	13.6				
Gross margins (%)	47.8	51.9	53.5	54.0	54.0				
Source: Company, Anand Rathi F	Research								

Fig 3 – Cash-flow statement (Rs m)

Year-end: Mar	FY19	FY20	FY21e	FY22e	FY23e
PBT adj. OI and interest	6,479	7,718	8,057	9,521	10,793
+ Non-cash items	1,189	1,302	1,717	2,310	2,778
Oper. prof. before WC	7,668	9,020	9,774	11,831	13,571
- Incr. / (decr.) in WC	784	(935)	(14)	1,645	1,297
Others incl. taxes	2,436	2,129	2,201	2,605	2,959
Operating cash-flow	4,448	7,826	7,587	7,581	9,315
- Capex (tang. + intang.)	2,721	3,319	5,000	6,000	5,000
Free cash-flow	1,727	4,507	2,587	1,581	4,315
Acquisitions					
-Div.(incl. buyback, tax)	536	983	662	941	1,069
+ Equity raised	-	-	-	-	-
+ Debt raised	388	537	-	-	-
- Fin Investments	2,822	3,853	1,200	1,000	-
-Misc. items (CFI+CFF)	(1,293)	400	(811)	(977)	(1,133)
Net cash-flow	51	(191)	1,536	617	4,379
Source: Company, Anand Rath	i Research				

Fig 5 – Price movement

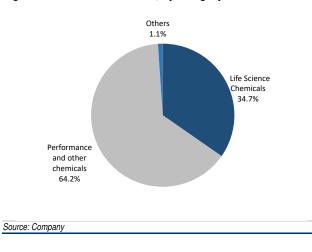


Fig 2 – Balance sheet (Rs m)										
Year-end: Mar	FY19	FY20	FY21e	FY22e	FY23e					
Share capital	297	297	297	297	297					
Net worth	27,057	31,549	37,510	44,410	52,249					
Debt	548	1,085	1,085	1,085	1,085					
Minority interest	238	264	308	360	419					
DTL / (Assets)	1,390	1,078	1,078	1,078	1,078					
Capital employed	29,232	33,976	39,981	46,933	54,831					
Net tangible assets	10,492	10,615	13,607	18,269	20,992					
Net intangible assets	197	163	163	163	163					
Goodwill	323	291	291	291	291					
CWIP (tang. & intang.)	1,723	3,681	3,973	3,000	2,500					
Investments (strategic)	5,464	4,888	6,088	6,088	6,088					
Investments (financial)	2,088	6,517	6,517	7,517	7,517					
Current asset (ex cash)	14,604	14,926	14,949	17,666	20,222					
Cash	545	354	1,890	2,507	6,885					
Current liabilities	6,203	7,460	7,496	8,568	9,827					
Working capital	8,401	7,466	7,453	9,098	10,395					
Capital deployed	29,232	33,976	39,981	46,933	54,831					
Contingent liabilities	1,203	1,148	-	-	-					
Source: Company, Anand Ra	thi Research									

Fig 4 – Ratio analysis

Year-end: Mar	FY19	FY20	FY21e	FY22e	FY23e
P/E (x)	42.0	27.2	27.4	23.2	20.4
EV / EBITDA (x)	23.4	19.5	17.8	14.6	12.4
EV / Sales (x)	4.4	4.3	4.2	3.5	3.0
P/B (x)	6.7	5.8	4.8	4.1	3.5
RoE (%)	16.0	21.1	17.7	17.7	17.0
RoCE (%) - after tax	16.4	21.3	18.0	18.1	17.6
RoIC	16.7	21.6	18.6	19.1	19.4
DPS (₹ / sh)	15.0	27.5	22.3	31.7	36.0
Dividend yield (%)	0.2	0.4	0.4	0.5	0.6
Dividend payout (%) - incl. DDT	10.3	12.2	10.0	12.0	12.0
Net debt / equity (x)	0	0	0	0	0
Receivables (days)	62	63	65	65	65
Inventory (days)	87	92	93	94	94
Payables (days)	65	87	90	86	86
CFO: PAT %	102.9	117.4	114.6	96.7	104.6
Source: Company, Anand Rathi Resear	rch				

Fig 6 – Revenue contribution, by category



Result Update

Subdued operating performance

Standalone

Standalone revenue was Rs9.6bn, down 5.5% y/y, 58.8% q/q, driven by strong recovery in the demand. The gross margin expanded to ~53.9%, up 253bps y/y, down 398bps q/q as it reported the highest gross margin in Q1 (57.9%). The EBITDA margin rose 470bps y/y, 227bps q/q, to 25.8%, supported by lower other expenses. PAT was Rs1.7bn, down 18.6% y/y, (though q/q up 45.1%) as the tax rate returned to 25% against only 0.3% a year ago due to a tax benefit u/s 115BBA.

Consolidated

Atul's (consolidated) Q2 FY21 revenue was down 4.2% y/y, up 51.7% q/q, to Rs10bn, on the mixed performance of segments. The gross margin expanded 276bps y/y to 54.2% due to lower input costs. Absolute EBITDA grew 16.4% y/y, 64.6% q/q, to Rs2.6bn.

The EBITDA margin expanded a strong 460bps y/y, 204bps q/q, to 26.1% mainly due to the higher gross margin and lower other expenses, partially hit by higher employee costs. Due to the normalized 25.7% tax rate compared to 1.1% a year ago, PAT was Rs1.7bn (down 16.6% y/y, though q/q up 48%).

Subsidiaries

Revenue from subsidiaries grew 38.2% y/y, down 22.1% q/q, to Rs451m, bringing 4.5% to consolidated revenue. EBITDA and PAT were up 33.6% and 641% y/y respectively to Rs141m and Rs47m.

Expanding MCA capacity

On 21st Oct'20, Atul announced that its JV with Nouryon, a leading global technology manufacturer of mono-chloro-acetic acid (MCA), had received environmental clearance for its 32,000-ton MCA plant in Gujarat. Construction is expected to be complete this year, aiming to supply MCA to the Indian market by the year-end and to reach full production in H1 CY21.

MCA is an essential ingredient for the growing Indian agricultural, personal care and pharmaceutical markets. The JV will have the largest MCA plant in India, which will use chlorine and hydrogen manufactured by Atul to produce up to 32,000 tons of MCA, with the possibility of expanding this to 60,000 tons in future. Atul will consume a portion of the MCA for its own production; the balance will be marketed in India.

Financial highlights

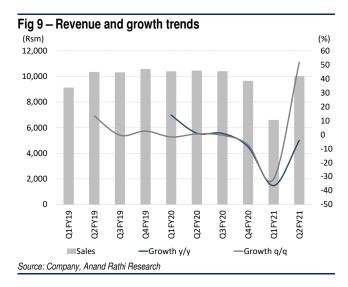
Fig 7 – Financial t	rend												
Particulars (Rsm)	Q3 FY19	Q4 FY19	Q1 FY20	Q2 FY20	Q3 FY20	Q4 FY20	Q1 FY21	Q2 FY21	% Y/Y	% Q/Q	H1 FY20	H1 FY21	% Y/Y
Income	10,315	10,580	10,406	10,456	10,414	9,655	6,606	10,021	(4.2)	51.7	20,862	16,627	(20.3)
RM costs	5,334	5,507	5,077	5,073	4,967	4,583	2,843	4,586	(9.6)	61.3	10,150	7,429	(26.8)
Employee expenses	662	704	699	771	754	785	740	768	(0.5)	3.7	1,470	1,508	2.6
Other expenses	2,186	2,340	2,228	2,368	2,200	2,406	1,436	2,056	(13.2)	43.2	4,595	3,492	(24.0)
EBITDA	2,134	2,031	2,403	2,244	2,493	1,881	1,587	2,612	16.4	64.6	4,647	4,198	(9.6)
Depreciation	291	330	318	323	324	338	331	332	2.8	0.3	641	663	3.5
Interest	19	17	19	20	31	24	27	22	6.4	(19.1)	39	48	23.8
Other income	(42)	42	100	210	115	356	406	65	(69.3)	(84.1)	310	471	52.0
РВТ	1,782	1,726	2,166	2,111	2,253	1,875	1,635	2,323	10.0	42.0	4,277	3,958	(7.5)
Tax	628	607	689	24	572	460	459	596	2,405.5	30.1	713	1,055	47.9
PAT	1,154	1,119	1,477	2,087	1,680	1,415	1,177	1,726	(17.3)	46.7	3,564	2,903	(18.5)
MI	(6)	17	14	11	8	12	2	7	(32.4)	343.8	25	9	(64.6)
Profit from asso. & JV	11	13	11	13	17	9	3	24	89.1	771.4	24	27	14.3
Consol PAT	1,170	1,116	1,473	2,090	1,689	1,413	1,178	1,744	(16.6)	48.0	3,563	2,921	(18.0)
EPS (Rs)	39.4	38	49.6	70.4	56.9	47.6	39.7	58.7	(16.6)	48.0	120.0	98.4	(18.0)
Source: Company, Anand I	Rathi Researc	h *MI - min	oritv Interest										

Source: Company, Anand Rathi Research *MI - minority Interest

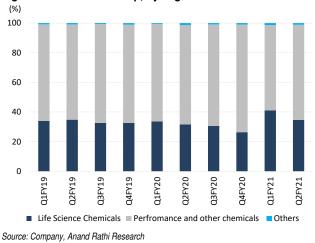
Fig 8 – Quarterly trend, as percent of sales

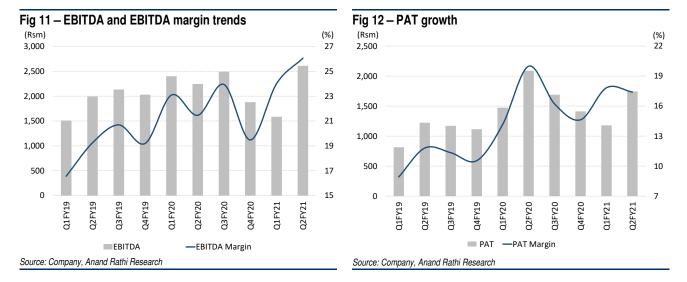
Particulars (%)	Q3 FY19	Q4 FY19	Q1 FY20	Q2 FY20	Q3 FY20	Q4 FY20	Q1 FY21	Q2 FY21	bps Y/Y	bps Q/Q	H1 FY20	H1 FY21	bps Y/Y
Gross margins	48.3	48.0	51.2	51.5	52.3	52.5	57.0	54.2	276	(273)	51.3	55.3	397
Employee costs	6.4	6.6	6.7	7.4	7.2	8.1	11.2	7.7	28	(355)	7.0	9.1	202
Other expenses	21.2	22.1	21.4	22.6	21.1	24.9	21.7	20.5	(213)	(122)	22.0	21.0	(103)
EBITDA margins	20.7	19.2	23.1	21.5	23.9	19.5	24.0	26.1	460	204	22.3	25.3	298
Depreciation	2.8	3.1	3.1	3.1	3.1	3.5	5.0	3.3	23	(170)	3.1	4.0	92
Interest	0.2	0.2	0.2	0.2	0.3	0.2	0.4	0.2	2	(19)	0.2	0.3	10
Other income	(0.4)	0.4	1.0	2.0	1.1	3.7	6.2	0.6	(137)	(551)	1.5	2.8	135
PBT margins	17.3	16.3	20.8	20.2	21.6	19.4	24.8	23.2	299	(158)	20.5	23.8	330
Effective tax rate	35.2	35.2	31.8	1.1	25.4	24.5	28.0	25.7	2,455	(237)	16.7	26.7	998
PAT margins	11.3	10.5	14.2	20.0	16.2	14.6	17.8	17.4	(259)	(43)	17.1	17.6	49

Source: Company, Anand Rathi Research









Consolidated performance, by segment

Life-science chemicals

Revenue of the life-science-chemicals division grew 5.3% y/y, 28.3% q/q, to Rs3.5bn. Absolute EBIT increased 7.7% y/y, 31.5% q/q, to Rs671m with a 19.3% EBIT margin (up 43bps y/y, 47bps q/q). The RoCE of the Life-science chemicals division was 12.5% (11.2% a year ago). The segment's capital employed decreased 3% y/y to Rs5.4bn.

Performance and other chemicals

Q2 FY21 revenue slipped 7.7% y/y, though q/q up 64%, to Rs6.9bn. The EBIT margin was 23.1%, up 411bps y/y, 276bps q/q. Absolute EBIT was Rs1.6bn, up 12.2% y/y, 86.3% q/q. The RoCE was 12.5% (11.2% a year ago). Investment in the business was Rs12.7bn.

Particulars (Rs m)	Q2 FY20	Q1 FY21	Q2 FY21	% Y/Y	% Q/Q	H1 FY20	H1 FY21	% Y/Y
Revenue								
Life Science chemicals	3,301	2,709	3,475	5.3	28.3	6,799	6,184	(9.0)
Specialty chemicals	7,473	4,205	6,896	(7.7)	64.0	14,801	11,101	(25.0)
Others	129	87	108	(16.6)	23.8	185	195	5.5
Inter-segment	447	395	458	2.4	16.0	923	853	(7.6)
Net sales	10,456	6,606	10,021	(4.2)	51.7	20,862	16,627	(20.3)
EBIT								
Life Science chemicals	623	510	671	7.7	31.5	1,325	1,182	(10.8)
Specialty chemicals	1,420	856	1,594	12.2	86.3	2,888	2,449	(15.2)
Others	50	-5	48	(3.8)	L2P	61	43	(29.9)
EBIT margins (%)								
Life Science chemicals	18.9	18.8	19.3	43	47	19.5	19.1	(38)
Specialty chemicals	19.0	20.3	23.1	411	276	19.5	22.1	255
Others	38.8	(6.0)	44.7	594	NA	33.2	22.1	(1,113)

Valuation

Change in estimates

	Old estimat	tes	New estima	tes	Change (%)		
(Rsm)	FY21e	FY22e	FY21e	FY22e	FY21e	FY22e	
Revenue	44,058	52,115	41,593	49,296	(5.6)	(5.4)	
EBITDA	9,693	11,465	9,774	11,831	0.8	3.2	
PAT	6,643	7,659	6,623	7,841	(0.3)	2.4	

To arrive at the value of Atul, we use the DCF method. The 11% WACC used has been arrived at as follows:

Fig 15 – WACC	
Equity (FY20) (Rs m)	31,549
Cost of equity (%)	11
Debt (FY20) (₹ m)	1,085
Cost of debt (%)	8.0
Weighted average cost of capital (%)	10.9
Source: Anand Rathi Research	

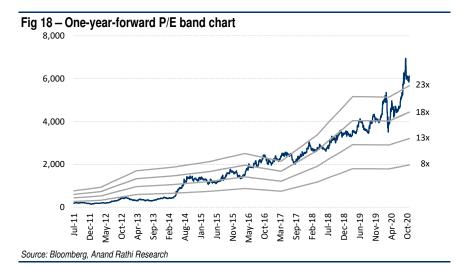
To arrive at future cash flows, a 5% terminal growth rate has been assumed.

Fig 16 – Present value of FCFF											
(Rs m)	FY21e	FY22e	FY23e	FY24e	FY25e	FY26e	FY27e	FY28e	FY29e	FY30e	FY31e
EBIT	8,889	10,507	11,924	14,128	16,535	19,189	22,267	25,840	29,986	34,798	40,381
EBIT (1-t)	6,667	7,880	8,943	10,596	12,402	14,391	16,701	19,380	22,490	26,098	30,286
Depreciation	1,717	2,310	2,778	3,054	3,181	3,356	3,540	3,735	3,940	4,156	4,384
WC changes	14	(1,645)	(1,297)	(1,611)	(1,730)	(2,008)	(2,330)	(2,704)	(3,138)	(3,642)	(4,226)
Capex	(5,000)	(6,000)	(5,000)	(1,500)	(1,500)	(2,000)	(2,110)	(2,226)	(2,348)	(2,477)	(2,613)
FCFF	3,398	2,545	5,424	10,538	12,352	13,739	15,801	18,185	20,943	24,136	27,831
PV of FCFF	3,064	2,069	3,976	6,967	7,364	7,385	7,659	7,948	8,254	8,577	8,918
Source: Anand Rathi Research											

DCF-based valuation

Fig 17 – Target price (Rsm)	
Present value	72,180
Terminal value	151,146
Debt	(1,085)
Cash	354
Total value	222,595
No. of shares (m)	30
Target price (Rs)	7,500
Source: Anand Rathi Research	

At the target price of Rs7,500, the stock is valued at a PE multiple of 28.4x FY22e and 25x FY23e. On an EV/EBITDA multiple, it is valued at 18.1x FY22e and 15.4x FY23e.



Risks

- Drop in spreads of major products
- Decrease in prices of major products such as p-cresol, resorcinol, 44 DDS, 2,4- D, dapsone, vat dyes, etc.
- Delay in capex and debottlenecking
- Erratic increase in prices of crude and crude derivatives.
- Global slowdown, leading to a deceleration in key consumer sectors (agro-chemicals, pharmaceuticals, dyes & pigments).

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



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>>25%</td><td>5-25%</td><td><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. (NSEIL), 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.