Buy



# **Jindal Steel and Power**

 BSE SENSEX
 S&P CNX

 40,616
 11,909



Bloomberg	JSP IN
Equity Shares (m)	1,020
M.Cap.(INRb)/(USDb)	211.7 / 2.7
52-Week Range (INR)	238 / 62
1, 6, 12 Rel. Per (%)	4/115/50
12M Avg Val (INR M)	3108

### Financials & Valuations (INR b)

Y/E March	2020	2021E	2022E
Sales	370.0	333.3	342.6
EBITDA	78.5	107.1	93.0
Adj. PAT	-5.6	26.1	16.2
Adj. EPS (INR)	-5.5	25.6	15.8
EPS Gr(%)	NA	NA	-38
BV/Sh. (INR)	315	273	289
RoE (%)	-1.7	8.7	5.6
RoCE (%)	4.8	10.3	9.2
Payout (%)	0.0	0.0	0.0
Valuations			
P/E (x)	-37.9	8.1	13.1
P/BV	0.7	0.8	0.7
EV/EBITDA (x)	7.5	4.4	4.7
Div. Yield (%)	0.0	0.0	0.0

### Shareholding pattern (%)

As On	Sep-20	Jun-20	Sep-19
Promoter	60.5	60.5	60.4
DII	13.7	14.0	11.1
FII	12.2	12.0	15.3
Others	13.6	13.5	13.3

FII Includes depository receipts

### Stock Performance (1-year)



CMP: INR208 TP: INR261 (+26%)

### Gare Palma win to lead to savings of INR4.5b annually

### JPL the highest bidder in Gare Palma IV/1 coal block auction

Jindal Power Limited (JPL), subsidiary of Jindal Steel and Power (JSP), emerged as the highest bidder in the auction of the 6mtpa Gare Palma IV/1 coal block at 25% of the coal price based on the National Coal Index. We estimate average savings of ~INR750/t on 6mt coal, implying savings of INR4.5b/year. Assigning a 5x EBITDA multiple could potentially add INR22/sh (~8%) to our SOTP value for JSP at INR261/share.

### All eyes on central govt. for block allocation

- JPL emerged as the highest bidder by agreeing to pay ~25% premium against the coal price in the bidding process. The reserve price for the block stood at 24%. Other participants in the auction consisted of Hindalco and Adani Enterprises.
- Post the conclusion of the coal auctions on 9<sup>th</sup> Nov 2020, the central govt. shall approve the successful bidder of the coal block. Hereafter, the agreement shall be executed between JPL and the central govt. for block allocation. However, in 2019, the central govt. did not allocate the block to JSP even after the company emerged as the highest bidder in auction at INR230/t.
- The Gare Palma IV/1 block has a production capacity of 6mtpa and reserves of 159mt. The mine is currently operated by Coal India Ltd. The co. previously operated the mine before its subsequent de-allocation in 2015. The mine is ∼50km away from the co.'s power plant. The company already has a conveyor belt from the mine to its plant; thus, there would be substantial savings on freight costs. Management has informed that it would take 10−12 months to commence operations at the mine post its allocation.

### Coal block to generate savings of ~INR4.5b annually

- JPL has agreed to pay a ~25% premium on coal price based on the National Coal Index. As per the Index, average price of relevant-grade (G13-14) stood at ~INR1,200/t in Apr'20. Thus, JPL would have to pay a premium of INR300/t of coal.
- We estimate average savings of INR500/t on coal cost (after netting out mining cost) and INR250/t on freight. Thus, we estimate total cost savings of INR750/t.
- Improved coal security for JPL could significantly boost JPL's PLF from current levels of 32–35%. This would lead to further improvement in JPL's EBITDA.
- Based on 6mtpa coal production from this mine, the addition to JSP's consolidated EBITDA should be INR4.5b ~5% of its estimated FY22E EBITDA.

Amit Murarka - Research Analyst (Amit.Murarka@MotilalOswal.com)

Basant Joshi - Research Analyst (Basant.Joshi@MotilalOswal.com)

### Deleveraging to continue, driven by strong FCF

- The Gare Palma IV/1 coal block, if allocated by the central govt., would not only generate savings of INR4.5b/yr on coal cost but also improve JPL's PLF —thereby leading to higher EBITDA generation through value addition. We have not factored this into our estimates pending the allocation of the block.
- We expect margins to remain strong in 2HFY21, driven by an expected increase in long steel prices, cost tailwinds from lower coking coal costs, and the continued benefit of free-of-cost iron ore.
- With JSP booking significant exports in 1HFY21 and an expected improvement in domestic demand in 2HFY21, we expect the company to achieve ~20% volume growth in FY21. We expect JSP to achieve a ~16% EBITDA CAGR (excl. Oman) to reach INR93.0b over FY20–22E, driven by an expected 11% volume CAGR.
- We expect JSP to reduce its net debt by INR155b (INR152/share) to INR224b (incl. acceptances) over FY20–22E through strong FCF generation, led by higher EBITDA and lower capex. We expect JSP to refinance its overseas debt maturities (~USD800m). This would elongate the debt repayment schedule, thereby reducing the strain on standalone cash flows.
- Reiterate **Buy**, with SOTP-based TP of INR261, based on 5.0x FY22E EBITDA for the Steel business and DCF valuation for the Power business. At CMP, the stock trades attractively at 3.8x FY22E EV/EBITDA for the Steel business.

Exhibit 1: JSP - key financials

Y/E March	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
Net sales	1,83,709	2,10,194	2,76,244	3,93,721	3,69,955	3,33,295	3,42,647
Steel business (incl. CPP)	1,53,559	1,79,004	2,35,434	3,55,901	3,32,375	2,96,216	3,05,845
Standalone	1,27,126	1,38,481	1,73,061	2,77,160	2,62,283	2,96,216	3,05,845
Steel sales (kt)	3,350	3,350	3,760	5,120	5,700	6,850	7,000
Pellet sales (kt)	962	2,910	3,080	2,940	2,370	2,800	2,400
Jindal power	30,150	31,190	40,810	37,820	37,580	40,012	39,734
PLF (%)	29	31	37	35	32	35	36
Sales (Mkwh)	8,730	8,442	10,033	9,564	8,643	9,501	9,880
EBITDA	34,410	46,613	64,691	84,056	78,539	1,07,070	92,991
Steel business (incl. CPP)	27,810	36,133	50,351	73,300	66,418	91,022	78,408
(a) Standalone	24,392	28,877	39,731	60,172	57,774	92,623	80,009
EBITDA/t of steel	7,281	8,620	10,567	11,752	10,136	13,522	11,430
Jindal power	6,600	10,480	14,340	<i>10,756</i>	12,121	16,048	14,582
EBITDA (INR/kwh)	0.8	1.2	1.4	1.1	1.4	1.7	1.5

Source: Company, MOFSL

### Valuation and view

- Volume growth to drive ~16% EBITDA CAGR: With JSP booking significant exports in 1HFY21 and an expected improvement in domestic demand in 2HFY21, we expect the company to achieve ~20% volume growth in FY21. We expect JSP to achieve a ~16% EBITDA CAGR (excl. Oman) to reach INR93.0b over FY20—22E, driven by an expected 11% volume CAGR.
- Deleveraging to continue: We expect JSP to reduce its net debt by INR155b (INR152/share) to INR224b (incl. acceptances) over FY20-22E through strong FCF generation, led by higher EBITDA and lower capex. We expect JSP to refinance its overseas debt maturities (~USD800m). This would elongate the debt repayment schedule, thereby reducing the strain on standalone cash flows.

■ Valuation: Reiterate Buy, with SOTP-based TP of INR261, based on 5.0x FY22E EBITDA for the Steel business and DCF valuation for the Power business. At CMP, the stock trades attractively at 3.8x FY22E EV/EBITDA for the Steel business.

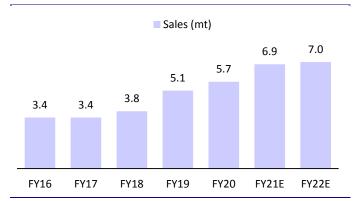
**Exhibit 2: Target price calculation** 

Y/E March	FY16	FY17	FY18	FY19	FY20	FY21E	FY22E
Steel Business							
A. EBITDA				72,496	66,049	91,022	78,408
B. Target EV/EBITDA(x)							5.0
C. EV (AxB)							3,92,042
Jindal Power (JPL)							
D. PV of JPL's FCFF							98,734
Consolidated							
EBITDA	34,410	46,613	64,691	84,056	78,539	1,07,070	92,991
E. Enterprise Value (C+D)							4,90,776
F. Net Debt	4,63,928	4,61,427	4,38,319	4,10,943	3,79,230	2,56,930	2,24,049
Equity Value (E-F)							2,66,727
Target price (INR/share)							261

Source: MOFSL, Company

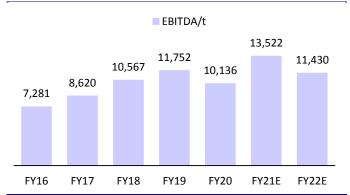
## **Story in charts**

Exhibit 1: Sales (excl. pig iron) to increase at ~11% CAGR over FY20–22E



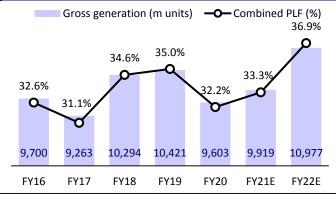
Source: Company, MOFSL

Exhibit 2: EBITDA/t to remain strong over FY21-22



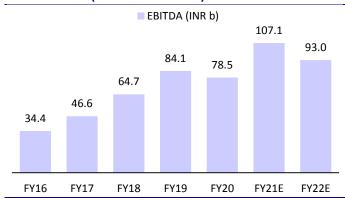
Source: Company, MOFSL

Exhibit 3: JPL's power generation trend



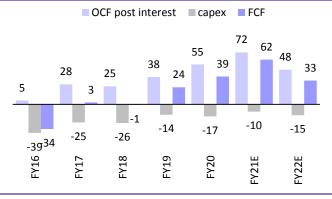
Source: Company, MOFSL

Exhibit 4: Consolidated EBITDA to increase at ~16% CAGR over FY20–22E (excl. Oman EBITDA)



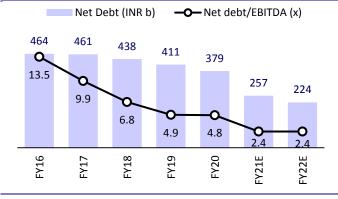
Source: Company, MOFSL

Exhibit 5: Higher OCF and lower capex to keep FCF positive



Source: Company, MOFSL

Exhibit 6: Net debt to decline by INR155b over FY20-22E



Source: Company, MOFSL

# **Financials and valuations**

Net sales	Income Statement (Consolidated)								(INR m)
Change (%)	Y/E March	2015	2016	2017	2018	2019	2020	2021E	2022E
Total Expenses	Net sales	2,01,592	1,83,709	2,10,194	2,76,244	3,93,721	3,69,955	3,33,295	3,42,647
BellTDA	Change (%)	4.5	-8.9	14.4	31.4	42.5	-6.0	-9.9	2.8
% of Net Sales         27.1         18.7         22.2         23.4         21.3         21.2         32.1         27.1           Depn. & Amortization         27,328         28,194         39,900         38,330         41,938         41,604         34,800         34,340           BEIT         27,270         6,216         7,122         25,861         42,118         36,935         72,271         58,364           Net Interest         25,837         32,808         34,240         38,657         42,622         41,493         33,060         31,266           Other Income         -19,116         -2,358         -3,723         -5,874         -27,500         1,838         1,373         0           EO Income         -19,116         -2,358         -3,723         -5,874         -27,601         1,838         1,373         0           FDE Tafter EO         -15,1428         -26,750         -30,229         -1,838         1,373         0         0         0         32,266         27,308         1,141         28,017         -2,458         40,839         22,338         1,363         1,141         28,017         -2,458         40,839         22,338         13,131         -3,002         1,339         11,041	Total Expenses	1,46,994	1,49,299	1,63,581	2,11,553	3,09,666	2,91,416	2,26,225	2,49,657
Depn. & Amortization         27,328         28,194         39,490         38,830         41,938         41,604         34,800         34,347           EBIT         27,270         6,216         7,122         25,861         42,118         36,935         72,271         58,644           Other Income         2,256         2,200         411         29         157         262         255           PBT before EO         3,689         -24,391         -26,706         12,767         -367         4,296         39,466         27,380           Cloincome         19,116         -2,358         -3,723         -5,874         -27,550         1,88         1,373         0           PBT after EO         15,428         -26,750         30,429         -18,611         -28,017         -2,488         40,839         27,388           Tax         -882         -6,763         -5,027         -2,398         -3,902         1,539         11,041         8,499           Rate (%)         -5.7         25.3         16.5         12.9         13.9         -26.6         27.0         31.2           Reported PAT         -14,566         19,987         -5,500         -6.0         0         0         0	EBITDA	54,598	34,410	46,613	64,691	84,056	78,539	1,07,070	92,991
EBIT         27,270         6,216         7,122         25,851         42,118         36,935         72,271         58,644           Net interest         25,837         32,080         33,4240         38,657         42,642         41,493         33,060         31,264           Other income         2,256         2,200         411         29         157         262         255           PBT before EO         3,689         -24,391         -26,760         -12,767         -367         -4,296         39,466         27,380           EO income         -19,116         -2,388         -3,723         -5,874         -27,650         1,838         1,373         0           Tax         -882         -6,673         -5,027         -2,388         -3,902         1,539         11,041         8,549           Rate (%)         5.7         25.3         16,55         12.9         13.9         -62.6         27.0         31.2           Rate (%)         5.7         25.3         16,65         16,243         -7,644         -2,150         26,50         26,50           Preference divided         0         0         0         0         0         0         0         0         0	% of Net Sales	27.1	18.7	22.2	23.4	21.3	21.2	32.1	27.1
Net interest 25,837 32,808 34,240 38,657 42,642 41,493 33,060 31,264 Other income 2,256 2,200 411 29 157 42,62 255 255 256 27,808 24,391 26,706 12,767 367 4,296 39,466 27,388 E0 income 1-19,116 2,358 3,723 1-5,874 2-7,650 1,838 1,373 0 0 7 PBT after EO 1-15,428 2-6,750 30,4429 1-18,641 2-28,017 2-4,458 40,839 27,380 1	Depn. & Amortization	27,328	28,194	39,490	38,830	41,938	41,604	34,800	34,347
Other income         2,256         2,200         411         29         157         262         255         27,380           PBT before EO         3,689         2-4,391         -24,506         -12,767         -367         4,296         39,466         27,380           EO Income         -19,116         -2,358         -3,723         -5,874         -27,550         1,383         1,373         0           PBT after EO         -15,428         -26,750         -30,429         -18,641         -28,017         -2,458         40,839         27,380           Tax         -882         -6,763         -5,027         -2,398         -3,002         1,599         11,041         8,549           Rate (%)         -5.7         2,53         1.6.5         12,9         13,9         -62,62         27,0         31,2           Peeperted PAT         -14,546         -19,987         -25,402         -16,243         -24,115         -3,996         29,798         18,832           Minority interests         -1,633         -16,662         -19,128         8-2,18         3,178         -3,683         26,160           Freference dividend         -6.63         -363.0         14.8         -57.0         13.8         21,02<	EBIT	27,270	6,216	7,122	25,861	42,118	36,935	72,271	58,644
PBT before EO         3,689         -24,391         -26,706         -12,767         -367         -4,296         39,466         27,380           EO income         -19,116         -2,358         -3,723         -5,874         -27,501         1,383         1,373         0           PBT after EO         -15,428         -26,760         -30,429         -18,641         -28,017         -2,488         43,939         27,388           Tax         -882         -6,63         -5,027         -2,398         -3,902         1,539         11,041         8,549           Rate (%)         -5,7         25.3         16.5         12.9         13.9         -6.6         27.0         31.2           Reported PAT         -14,546         -19,987         -25,402         -16,243         -24,115         -3,996         29,798         18,832           Minority interests         -1,738         -980         -2,524         -2,064         -7,644         -2,150         -2,050         2,650           Preference dividend         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>Net Interest</td> <td>25,837</td> <td>32,808</td> <td>34,240</td> <td>38,657</td> <td>42,642</td> <td>41,493</td> <td>33,060</td> <td>31,264</td>	Net Interest	25,837	32,808	34,240	38,657	42,642	41,493	33,060	31,264
EO income         -19,116         -2,558         -3,723         -5,874         -27,650         1,838         1,373         0           PBT after EO         -15,428         -26,750         -30,429         -18,641         -22,8017         -2,458         40,839         27,388           Tax         -882         -6,763         -5,027         -2,398         -3,902         15,39         11,041         8,549           Rate (%)         5.7         25.3         16.5         12.9         13.9         -6.26         27.0         31.2           Reported PAT         -14,546         -19,987         -25,402         -16,243         -24,115         -3,996         29,798         18,832           Preference dividend         0	Other income	2,256	2,200	411	29	157	262	255	
PBT affer EO         -15,428         -26,750         -30,429         -18,641         -28,017         -2,458         40,839         27,380           Tax         -882         -6,763         5,027         -2,398         -3,902         1,539         11,041         8,549           Rate (%)         5.7         25.3         16.5         12.9         13,902         1,539         6,26         27.0         3,549           Reported PAT         -14,546         -19,987         -25,402         -16,243         -24,115         -3,996         29,798         18,832           Minority interests         -1,738         -980         -2,524         -2,064         -7,644         -2,150         0	PBT before EO	3,689	-24,391	-26,706	-12,767	-367	-4,296	39,466	27,380
Tax         -882         -6,763         -5,027         -2,398         -3,902         1,539         11,041         8,549           Rate (%)         5.7         25.3         16.5         12.9         13.9         -62.6         27.0         31.2           Reported PAT         -14,546         -19,987         -25,402         -16,243         -24,115         -3,996         29,789         18,332           Minority interests         -1,738         -980         -2,524         -2,064         -7,644         -2,150         2,650         2,650           Preference dividend         0<	EO income	-19,116	-2,358	-3,723	-5,874	-27,650	1,838	1,373	0
Rate (%)   5.7   25.3   16.5   12.9   13.9   -62.6   27.0   31.2     Reported PAT	PBT after EO	-15,428	-26,750	-30,429	-18,641	-28,017	-2,458	40,839	27,380
Reported PAT         -14,546         -19,987         -25,402         -16,243         -24,115         -3,996         29,798         18,832           Minority interests         -1,738         -980         -2,524         -2,064         -7,644         -2,150         2,650         2,650         2,650         2,650         2,650         2,600         <	Tax	-882	-6,763	-5,027	-2,398	-3,902	1,539	11,041	8,549
Minority interests         -1,738         -980         -2,524         -2,064         -7,644         -2,150         2,650         2,650           Preference dividend         0	Rate (%)	5.7	25.3	16.5	12.9	13.9	-62.6	27.0	31.2
Preference dividend         0	Reported PAT	-14,546	-19,987	-25,402	-16,243	-24,115	-3,996	29,798	18,832
Share of Associates         26         -14         27         87         0         0         0         0           Adjusted PAT         6,335         -16,662         -19,128         -8,218         3,178         -3,683         26,146         16,181           Change (%)         -66.8         -363.0         14.8         -57.0         -138.7         NA         NA         NA         38.1           Balance Sheet (Consolidated)         "Image: Consolidated of Consolidat	Minority interests	-1,738	-980	-2,524	-2,064	-7,644	-2,150	2,650	2,650
Adjusted PAT 6,335 -16,662 -19,128 -8,218 3,178 -3,683 26,146 16,181 Change (%) -66.8 -363.0 14.8 -57.0 -138.7 NA NA NA -38.1    Balance Sheet (Consolidated)	Preference dividend		0	0	0	0	0	0	0
Change (%)         -66.8         -363.0         14.8         -57.0         -138.7         NA         NA         -38.1           Balance Sheet (Consolidated)         (INR ml)           Y/E March         2015         2016         2017         2018         2019         2020         2021E         2022E           Share Capital         915         915         915         968         968         1,020         1,020         1,020           Reserves         2,09,506         1,80,556         2,99,590         3,02,878         3,23,309         3,20,351         2,77,610         2,93,791           Net Worth         2,10,421         1,81,471         3,00,505         3,03,846         3,24,276         3,21,371         2,78,630         2,94,811           Minority Interest         8,573         8,003         6,467         4,403         -3,011         -7,764         5,550         8,201           Total Loans         4,55,007         4,70,132         4,66,571         4,43,104         4,15,227         3,88,749         31,4,404         2,74,400           Deferred Tax Liability         20,185         13,477         53,586         50,284         53,643         56,225         48,832         49,842	Share of Associates	26	-14	27	87	0	0	0	0
Common   C	Adjusted PAT	6,335	-16,662	-19,128	-8,218	3,178	-3,683	26,146	16,181
Y/E March         2015         2016         2017         2018         2019         2020         2021E         2022E           Share Capital         915         915         915         968         968         1,020         1,020         1,020           Reserves         2,09,506         1,80,556         2,99,590         3,02,878         3,23,309         3,20,351         2,77,610         2,93,791           Net Worth         2,10,421         1,81,471         3,00,505         3,03,846         3,24,276         3,21,371         2,78,630         2,94,811           Minority Interest         8,573         8,003         6,647         4,403         -3,011         -7,764         5,550         8,201           Deferred Tax Liability         20,185         13,477         53,586         50,284         53,643         56,225         48,832         49,842           Capital Employed         6,94,185         6,73,082         8,27,129         8,01,638         7,90,135         7,58,580         6,47,416         6,27,258           Gross Block         6,12,235         6,27,116         7,83,127         8,46,580         9,00,003         9,50,772         8,14,934         8,24,934           Less: Accum. Deprn.         1,51,286         <	Change (%)	-66.8	-363.0	14.8	-57.0	-138.7	NA	NA	-38.1
Y/E March         2015         2016         2017         2018         2019         2020         2021E         2022E           Share Capital         915         915         915         968         968         1,020         1,020         1,020           Reserves         2,09,506         1,80,556         2,99,590         3,02,878         3,23,309         3,20,351         2,77,610         2,93,791           Net Worth         2,10,421         1,81,471         3,00,505         3,03,846         3,24,276         3,21,371         2,78,630         2,94,811           Minority Interest         8,573         8,003         6,647         4,403         -3,011         -7,764         5,550         8,201           Deferred Tax Liability         20,185         13,477         53,586         50,284         53,643         56,225         48,832         49,842           Capital Employed         6,94,185         6,73,082         8,27,129         8,01,638         7,90,135         7,58,580         6,47,416         6,27,258           Gross Block         6,12,235         6,27,116         7,83,127         8,46,580         9,00,003         9,50,772         8,14,934         8,24,934           Less: Accum. Deprn.         1,51,286         <	Ralance Sheet (Consolidated)								(INR m)
Share Capital         915         915         915         968         968         1,020         1,020         1,020           Reserves         2,09,506         1,80,556         2,99,590         3,02,878         3,23,309         3,20,351         2,77,610         2,93,791           Net Worth         2,10,421         1,81,471         3,00,505         3,03,846         3,24,276         3,21,371         2,78,630         2,94,811           Minority Interest         8,573         8,003         6,467         4,403         -3,011         -7,764         5,550         8,201           Total Loans         4,55,007         4,70,132         4,66,571         4,43,104         4,15,227         3,88,749         3,14,404         2,74,404           Deferred Tax Liability         20,185         13,477         53,586         50,284         53,643         56,225         48,832         49,842           Capital Employed         6,94,185         6,73,082         8,27,129         8,01,638         7,90,135         7,58,580         6,47,416         6,27,258           Gross Block         6,12,235         6,27,116         7,83,127         8,46,580         9,00,003         9,50,772         8,14,934         8,24,934           Less: Accum. Deprn.	· · · · · · · · · · · · · · · · · · ·	2015	2016	2017	2018	2019	2020	2021E	2022E
Reserves         2,09,506         1,80,556         2,99,590         3,02,878         3,23,309         3,20,351         2,77,610         2,93,791           Net Worth         2,10,421         1,81,471         3,00,505         3,03,846         3,24,276         3,21,371         2,78,630         2,94,811           Minority Interest         8,573         8,003         6,467         4,403         -3,011         -7,764         5,550         8,201           Total Loans         4,55,007         4,70,132         4,66,571         4,43,104         4,15,227         3,88,749         3,14,404         2,74,404           Deferred Tax Liability         20,185         13,477         53,586         50,284         53,643         56,225         48,832         49,842           Capital Employed         6,94,185         6,73,082         8,27,129         8,01,638         7,90,135         7,58,580         6,47,416         6,27,258           Gross Block         6,12,235         6,67,116         7,83,127         8,46,580         9,00,003         9,50,772         8,14,934         8,24,934           Less: Accum. Deprn.         1,51,286         1,78,233         1,29,476         1,68,002         2,09,940         2,51,544         2,68,440         3,02,787	· · · · · · · · · · · · · · · · · · ·	915		915	968	968	1.020	1.020	1,020
Net Worth         2,10,421         1,81,471         3,00,505         3,03,846         3,24,276         3,21,371         2,78,630         2,94,811           Minority Interest         8,573         8,003         6,467         4,403         -3,011         -7,764         5,550         8,201           Total Loans         4,55,007         4,70,132         4,66,571         4,43,104         4,15,227         3,88,749         3,14,004         2,74,404           Deferred Tax Liability         20,185         13,477         53,586         50,284         53,643         56,225         48,832         49,842           Capital Employed         6,94,185         6,73,082         8,27,129         8,01,638         7,90,135         7,58,580         6,47,416         6,27,258           Gross Block         6,12,235         6,27,116         7,83,127         8,46,580         9,00,003         9,50,772         8,14,934         8,24,934           Less: Accum. Deprn.         1,51,286         1,78,233         1,29,476         1,68,002         2,09,940         2,51,544         2,68,440         3,02,787           Net Fixed Assets         4,60,949         4,48,883         6,53,651         6,78,578         6,90,063         6,99228         5,46,493         5,22,147	•	2,09,506	1,80,556	2,99,590	3,02,878	3,23,309		•	•
Minority Interest         8,573         8,003         6,467         4,403         -3,011         -7,764         5,550         8,201           Total Loans         4,55,007         4,70,132         4,66,571         4,43,104         4,15,227         3,88,749         3,14,404         2,74,404           Deferred Tax Liability         20,185         13,477         53,586         50,284         53,643         56,225         48,832         49,842           Capital Employed         6,94,185         6,73,082         8,27,129         8,01,638         7,90,135         7,58,580         6,47,416         6,27,258           Gross Block         6,12,235         6,27,116         7,83,127         8,46,580         9,00,003         9,50,772         8,14,934         8,24,934           Less: Accum. Deprn.         1,51,286         1,78,233         1,29,476         1,68,002         2,09,940         2,51,544         2,68,440         3,02,787           Net Fixed Assets         4,60,949         4,48,883         6,53,651         6,78,578         6,90,063         6,99,228         5,46,493         5,22,147           Capital WIP         90,728         1,18,266         97,162         49,775         40,272         19,745         19,745         24,745	Net Worth				3,03,846				
Total Loans 4,55,007 4,70,132 4,66,571 4,43,104 4,15,227 3,88,749 3,14,404 2,74,404 Deferred Tax Liability 20,185 13,477 53,586 50,284 53,643 56,225 48,832 49,842 Capital Employed 6,94,185 6,73,082 8,27,129 8,01,638 7,90,135 7,58,580 6,47,416 6,27,258 Gross Block 6,12,235 6,27,116 7,83,127 8,46,580 9,00,003 9,50,772 8,14,934 8,24,934 Less: Accum. Deprn. 1,51,286 1,78,233 1,29,476 1,68,002 2,09,940 2,51,544 2,68,440 3,02,787 Net Fixed Assets 4,60,949 4,48,883 6,53,651 6,78,578 6,90,663 6,99,228 5,46,493 5,22,147 Capital WIP 90,728 1,18,266 97,162 49,775 40,272 19,745 19,745 24,745 Goodwill & Revaluation 5,485 5,485 5,670 5,922 6,164 6,098 6,098 6,098 Investments 17,852 3,577 3,677 1,458 1,452 1,430 1,430 1,430 Curr. Assets 1,80,353 1,59,182 1,45,820 1,56,572 1,57,902 1,70,917 2,04,615 2,04,572 Rocount Receivables 16,907 14,292 17,166 18,261 30,292 35,493 31,960 32,857 Cash and Bank Balance 11,391 6,204 5,144 4,786 4,284 9,519 57,475 50,355 Loans & advances and others 1,03,568 1,06,326 87,517 83,930 58,231 62,219 62,219 62,219 Curr. Liability & Prov. 61,181 62,310 78,850 90,667 1,05,718 1,38,838 1,30,965 1,31,734 Account Payables 38,391 42,186 22,221 28,434 32,087 35,651 27,394 28,163 Provisions & Others 22,790 20,124 56,629 62,233 73,631 1,03,187 1,03,571 1,03,571 Net Current Assets 1,19,172 96,872 66,970 65,905 52,184 32,079 73,649 72,838	Minority Interest	8,573		6,467	4,403	-3,011		5,550	8,201
Deferred Tax Liability         20,185         13,477         53,586         50,284         53,643         56,225         48,832         49,842           Capital Employed         6,94,185         6,73,082         8,27,129         8,01,638         7,90,135         7,58,580         6,47,416         6,27,258           Gross Block         6,12,235         6,27,116         7,83,127         8,46,580         9,00,003         9,50,772         8,14,934         8,24,934           Less: Accum. Deprn.         1,51,286         1,78,233         1,29,476         1,68,002         2,09,940         2,51,544         2,68,440         3,02,787           Net Fixed Assets         4,60,949         4,48,883         6,53,651         6,78,578         6,90,063         6,99,228         5,46,493         5,22,147           Capital WIP         90,728         1,18,266         97,162         49,775         40,272         19,745         19,745         24,745           Goodwill & Revaluation         5,485         5,670         5,922         6,164         6,098         6,098         6,098           Investments         17,852         3,577         3,677         1,458         1,452         1,430         1,430         1,430         1,430           Curr. Assets	•			4,66,571	4,43,104			3,14,404	2,74,404
Capital Employed         6,94,185         6,73,082         8,27,129         8,01,638         7,90,135         7,58,580         6,47,416         6,27,258           Gross Block         6,12,235         6,27,116         7,83,127         8,46,580         9,00,003         9,50,772         8,14,934         8,24,934           Less: Accum. Deprn.         1,51,286         1,78,233         1,29,476         1,68,002         2,09,940         2,51,544         2,68,440         3,02,787           Net Fixed Assets         4,60,949         4,48,883         6,53,651         6,78,578         6,90,063         6,99,228         5,46,493         5,22,147           Capital WIP         90,728         1,18,266         97,162         49,775         40,272         19,745         19,745         24,745           Goodwill & Revaluation         5,485         5,670         5,922         6,164         6,098         6,098         6,098           Investments         17,852         3,577         3,677         1,458         1,452         1,430         1,430         1,430           Curr. Assets         1,80,353         1,59,182         1,45,820         1,56,572         1,57,902         1,70,917         2,04,615         2,04,572           Inventory         48	Deferred Tax Liability						56,225	48,832	49,842
Gross Block         6,12,235         6,27,116         7,83,127         8,46,580         9,00,003         9,50,772         8,14,934         8,24,934           Less: Accum. Deprn.         1,51,286         1,78,233         1,29,476         1,68,002         2,09,940         2,51,544         2,68,440         3,02,787           Net Fixed Assets         4,60,949         4,48,883         6,53,651         6,78,578         6,90,063         6,99,228         5,46,493         5,22,147           Capital WIP         90,728         1,18,266         97,162         49,775         40,272         19,745         19,745         24,745           Goodwill & Revaluation         5,485         5,670         5,922         6,164         6,098         6,098         6,098           Investments         17,852         3,577         3,677         1,458         1,452         1,430         1,430         1,430           Curr. Assets         1,80,353         1,59,182         1,45,820         1,56,572         1,57,902         1,70,917         2,04,615         2,04,572           Inventory         48,487         32,360         35,993         49,596         65,095         63,687         52,962         59,142           Account Receivables         16,907	Capital Employed	6,94,185	6,73,082	8,27,129	8,01,638	7,90,135	7,58,580	6,47,416	6,27,258
Less: Accum. Deprn.         1,51,286         1,78,233         1,29,476         1,68,002         2,09,940         2,51,544         2,68,440         3,02,787           Net Fixed Assets         4,60,949         4,48,883         6,53,651         6,78,578         6,90,063         6,99,228         5,46,493         5,22,147           Capital WIP         90,728         1,18,266         97,162         49,775         40,272         19,745         19,745         24,745           Goodwill & Revaluation         5,485         5,485         5,670         5,922         6,164         6,098         6,098         6,098           Investments         17,852         3,577         3,677         1,458         1,452         1,430         1,430         1,430           Curr. Assets         1,80,353         1,59,182         1,45,820         1,56,572         1,57,902         1,70,917         2,04,615         2,04,572           Inventory         48,487         32,360         35,993         49,596         65,095         63,687         52,962         59,142           Account Receivables         16,907         14,292         17,166         18,261         30,292         35,493         31,960         32,857           Cash and Bank Balance <t< td=""><td></td><td></td><td></td><td></td><td>8,46,580</td><td></td><td>9,50,772</td><td></td><td>8,24,934</td></t<>					8,46,580		9,50,772		8,24,934
Net Fixed Assets         4,60,949         4,48,883         6,53,651         6,78,578         6,90,063         6,99,228         5,46,493         5,22,147           Capital WIP         90,728         1,18,266         97,162         49,775         40,272         19,745         19,745         24,745           Goodwill & Revaluation         5,485         5,485         5,670         5,922         6,164         6,098         6,098         6,098           Investments         17,852         3,577         3,677         1,458         1,452         1,430         1,430         1,430           Curr. Assets         1,80,353         1,59,182         1,45,820         1,56,572         1,57,902         1,70,917         2,04,615         2,04,572           Inventory         48,487         32,360         35,993         49,596         65,095         63,687         52,962         59,142           Account Receivables         16,907         14,292         17,166         18,261         30,292         35,493         31,960         32,857           Cash and Bank Balance         11,391         6,204         5,144         4,786         4,284         9,519         57,475         50,355           Loans & advances and others         1,03,568 <td>Less: Accum. Deprn.</td> <td></td> <td></td> <td></td> <td></td> <td>2,09,940</td> <td></td> <td></td> <td></td>	Less: Accum. Deprn.					2,09,940			
Capital WIP         90,728         1,18,266         97,162         49,775         40,272         19,745         19,745         24,745           Goodwill & Revaluation         5,485         5,485         5,670         5,922         6,164         6,098         6,098         6,098           Investments         17,852         3,577         3,677         1,458         1,452         1,430         1,430         1,430           Curr. Assets         1,80,353         1,59,182         1,45,820         1,56,572         1,57,902         1,70,917         2,04,615         2,04,572           Inventory         48,487         32,360         35,993         49,596         65,095         63,687         52,962         59,142           Account Receivables         16,907         14,292         17,166         18,261         30,292         35,493         31,960         32,857           Cash and Bank Balance         11,391         6,204         5,144         4,786         4,284         9,519         57,475         50,355           Loans & advances and others         1,03,568         1,06,326         87,517         83,930         58,231         62,219         62,219         62,219           Curr. Liability & Prov.         61,181	· · · · · · · · · · · · · · · · · · ·						6,99,228		
Goodwill & Revaluation         5,485         5,485         5,670         5,922         6,164         6,098         6,098         6,098           Investments         17,852         3,577         3,677         1,458         1,452         1,430         1,430         1,430           Curr. Assets         1,80,353         1,59,182         1,45,820         1,56,572         1,57,902         1,70,917         2,04,615         2,04,572           Inventory         48,487         32,360         35,993         49,596         65,095         63,687         52,962         59,142           Account Receivables         16,907         14,292         17,166         18,261         30,292         35,493         31,960         32,857           Cash and Bank Balance         11,391         6,204         5,144         4,786         4,284         9,519         57,475         50,355           Loans & advances and others         1,03,568         1,06,326         87,517         83,930         58,231         62,219         62,219         62,219           Curr. Liability & Prov.         61,181         62,310         78,850         90,667         1,05,718         1,38,838         1,30,965         1,31,734           Account Payables         38,39	Capital WIP					40,272			
Investments         17,852         3,577         3,677         1,458         1,452         1,430         1,430         1,430           Curr. Assets         1,80,353         1,59,182         1,45,820         1,56,572         1,57,902         1,70,917         2,04,615         2,04,572           Inventory         48,487         32,360         35,993         49,596         65,095         63,687         52,962         59,142           Account Receivables         16,907         14,292         17,166         18,261         30,292         35,493         31,960         32,857           Cash and Bank Balance         11,391         6,204         5,144         4,786         4,284         9,519         57,475         50,355           Loans & advances and others         1,03,568         1,06,326         87,517         83,930         58,231         62,219         62,219         62,219           Curr. Liability & Prov.         61,181         62,310         78,850         90,667         1,05,718         1,38,838         1,30,965         1,31,734           Account Payables         38,391         42,186         22,221         28,434         32,087         35,651         27,394         28,163           Provisions & Others	·								6,098
Curr. Assets         1,80,353         1,59,182         1,45,820         1,56,572         1,57,902         1,70,917         2,04,615         2,04,572           Inventory         48,487         32,360         35,993         49,596         65,095         63,687         52,962         59,142           Account Receivables         16,907         14,292         17,166         18,261         30,292         35,493         31,960         32,857           Cash and Bank Balance         11,391         6,204         5,144         4,786         4,284         9,519         57,475         50,355           Loans & advances and others         1,03,568         1,06,326         87,517         83,930         58,231         62,219         62,219         62,219           Curr. Liability & Prov.         61,181         62,310         78,850         90,667         1,05,718         1,38,838         1,30,965         1,31,734           Account Payables         38,391         42,186         22,221         28,434         32,087         35,651         27,394         28,163           Provisions & Others         22,790         20,124         56,629         62,233         73,631         1,03,187         1,03,571         1,03,571           Net Current Asse	Investments	-				-		•	1,430
Inventory         48,487         32,360         35,993         49,596         65,095         63,687         52,962         59,142           Account Receivables         16,907         14,292         17,166         18,261         30,292         35,493         31,960         32,857           Cash and Bank Balance         11,391         6,204         5,144         4,786         4,284         9,519         57,475         50,355           Loans & advances and others         1,03,568         1,06,326         87,517         83,930         58,231         62,219         62,219         62,219           Curr. Liability & Prov.         61,181         62,310         78,850         90,667         1,05,718         1,38,838         1,30,965         1,31,734           Account Payables         38,391         42,186         22,221         28,434         32,087         35,651         27,394         28,163           Provisions & Others         22,790         20,124         56,629         62,233         73,631         1,03,187         1,03,571         1,03,571           Net Current Assets         1,19,172         96,872         66,970         65,905         52,184         32,079         73,649         72,838	Curr. Assets								
Account Receivables         16,907         14,292         17,166         18,261         30,292         35,493         31,960         32,857           Cash and Bank Balance         11,391         6,204         5,144         4,786         4,284         9,519         57,475         50,355           Loans & advances and others         1,03,568         1,06,326         87,517         83,930         58,231         62,219         62,219         62,219           Curr. Liability & Prov.         61,181         62,310         78,850         90,667         1,05,718         1,38,838         1,30,965         1,31,734           Account Payables         38,391         42,186         22,221         28,434         32,087         35,651         27,394         28,163           Provisions & Others         22,790         20,124         56,629         62,233         73,631         1,03,187         1,03,571         1,03,571           Net Current Assets         1,19,172         96,872         66,970         65,905         52,184         32,079         73,649         72,838									
Cash and Bank Balance       11,391       6,204       5,144       4,786       4,284       9,519       57,475       50,355         Loans & advances and others       1,03,568       1,06,326       87,517       83,930       58,231       62,219       62,219       62,219         Curr. Liability & Prov.       61,181       62,310       78,850       90,667       1,05,718       1,38,838       1,30,965       1,31,734         Account Payables       38,391       42,186       22,221       28,434       32,087       35,651       27,394       28,163         Provisions & Others       22,790       20,124       56,629       62,233       73,631       1,03,187       1,03,571       1,03,571         Net Current Assets       1,19,172       96,872       66,970       65,905       52,184       32,079       73,649       72,838	•	•						•	
Loans & advances and others       1,03,568       1,06,326       87,517       83,930       58,231       62,219       62,219       62,219         Curr. Liability & Prov.       61,181       62,310       78,850       90,667       1,05,718       1,38,838       1,30,965       1,31,734         Account Payables       38,391       42,186       22,221       28,434       32,087       35,651       27,394       28,163         Provisions & Others       22,790       20,124       56,629       62,233       73,631       1,03,187       1,03,571       1,03,571         Net Current Assets       1,19,172       96,872       66,970       65,905       52,184       32,079       73,649       72,838									50,355
Curr. Liability & Prov.         61,181         62,310         78,850         90,667         1,05,718         1,38,838         1,30,965         1,31,734           Account Payables         38,391         42,186         22,221         28,434         32,087         35,651         27,394         28,163           Provisions & Others         22,790         20,124         56,629         62,233         73,631         1,03,187         1,03,571         1,03,571           Net Current Assets         1,19,172         96,872         66,970         65,905         52,184         32,079         73,649         72,838		-							62,219
Account Payables       38,391       42,186       22,221       28,434       32,087       35,651       27,394       28,163         Provisions & Others       22,790       20,124       56,629       62,233       73,631       1,03,187       1,03,571       1,03,571         Net Current Assets       1,19,172       96,872       66,970       65,905       52,184       32,079       73,649       72,838									
Provisions & Others         22,790         20,124         56,629         62,233         73,631         1,03,187         1,03,571         1,03,571           Net Current Assets         1,19,172         96,872         66,970         65,905         52,184         32,079         73,649         72,838	·	-							
Net Current Assets 1,19,172 96,872 66,970 65,905 52,184 32,079 73,649 72,838	•								1,03,571
									72,838
	Appl. of Funds	6,94,185	6,73,082	8,27,129	8,01,638	7,90,135	7,58,581	6,47,416	6,27,258

# **Financials and valuations**

Ratios (Consolidated)								
Y/E March	2015	2016	2017	2018	2019	2020	2021E	2022E
Basic (INR)								
EPS	6.9	(18.2)	(20.9)	(8.5)	3.3	(3.6)	25.6	15.8
Cash EPS	14.0	9.0	15.4	23.3	18.4	36.9	63.3	52.1
BV/Share	230.0	198.4	328.4	313.9	335.0	315.1	273.2	289.0
DPS	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Payout (%)	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Valuation (x)								
P/E					63.1	NA	8.1	13.1
Cash P/E					11.2	5.6	3.3	4.0
P/BV					0.6	0.7	0.8	0.7
EV/Sales					1.6	1.6	1.4	1.3
EV/EBITDA					7.3	7.5	4.4	4.7
Dividend Yield (%)					0.0	0.0	0.0	0.0
Return Ratios (%)								
EBITDA Margins (%)	27.1	18.7	22.2	23.4	21.3	21.2	32.1	27.1
Net Profit Margins (%)	3.1	(9.1)	(9.1)	(3.0)	0.8	(1.0)	7.8	4.7
RoE	2.9	(8.5)	(7.9)	(2.6)	1.0	(1.1)	8.7	5.6
RoCE (pre-tax)	4.5	1.2	1.0	3.2	5.3	4.8	10.3	9.2
RoIC (pre-tax)	5.5	1.1	1.1	3.6	5.7	5.1	11.3	10.6
Working Capital Ratios								
Fixed Asset Turnover (x)	0.4	0.3	0.3	0.4	0.5	0.5	0.6	0.6
Asset Turnover (x)	0.3	0.3	0.3	0.3	0.5	0.5	0.4	0.4
Inventory (Days)	88	64	63	66	60	63	58	63
Debtor (Days)	31	28	30	24	28	35	35	35
Payable (Days)	70	84	39	38	30	35	30	30
Leverage Ratio (x)								
Current Ratio	2.9	2.6	1.8	1.7	1.5	1.2	1.6	1.6
Interest Cover Ratio	1.1	0.2	0.2	0.7	1.0	0.9	2.2	1.9
Debt/Equity	2.1	2.6	1.5	1.4	1.3	1.2	0.9	0.8
Cash Flow Statement (Consol	idated)							(INR m)
Y/E March	2015	2016	2017	2018	2019	2020	2021	2022
EBITDA	54,598	34,410	46,613	64,691	84,056	78,539	1,07,070	92,991
Non cash exp. (income)	-21,600	-4,581	-1,020	2,853	1,262	1,569		,
(Inc)/Dec in Wkg. Cap.	-18,154	11,762	7,190	-9,267	-23,983	-771	6,001	-6,308
Tax Paid	-3,393	-170	450	-553	296	35	-9,434	-7,539
others			15,840	14,101	22,001	15,894	1,373	
CF from Op. Activity	11,451	41,422	69,072	71,825	83,632	95,265	1,05,011	79,144
(Inc)/Dec in FA + CWIP	-50,964	-39,500	-24,975	-25,767	-14,333	-16,646	-10,000	-15,000
(Pur)/Sale of Investments	-13,430	15,904	5,164	12,299	2,436	339		
Acquisition in subsidiaries	367	1,052	,	,	,		3,750	0
Loans and advances	0	-1,337	-934	-2,376	3,044	-219		
Int. & Dividend Income	1,003	2,292	754	1,533	532	527	255	0
Other investing activities	-2,341	1,699	1,511	-533	-533			
CF from Inv. Activity	-65,365	-19,889	-18,481	-14,845	-8,853	-15,999	-5,995	-15,000
Equity raised/(repaid)	5	0	0	13,883	0	5,129		-
Debt raised/(repaid)	90,704	9,230	-10,256	-24,391	-30,260	-40,676	-18,000	-40,000
Dividend (incl. tax)	-1,448	-8	0	15	-18	-18	0	0
Interest paid	-34,381	-35,941	-41,396	-46,845	-45,699	-40,054	-33,060	-31,264
Other financing	271	0	·		·			
CF from Fin. Activity	55,151	-26,719	-51,651	-57,338	-75,280	-74,032	-51,060	-71,264
(Inc)/Dec in Cash	1,238	-5,187	-1,060	-358	-502	5,235	47,956	-7,120
Add: opening Balance	10,153	11,391	6,204	5,144	4,786	4,284	9,519	57,475
Closing Balance	11,391	6,204	5,144	4,786	4,284	9,519	57,475	50,355
-	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	<u> </u>	· · ·			

Explanation of Investment Rating	
Investment Rating	Expected return (over 12-month)
BUY	>=15%
SELL	< - 10%
NEUTRAL	< - 10 % to 15%
UNDER REVIEW	Rating may undergo a change
NOT RATED	We have forward looking estimates for the stock but we refrain from assigning recommendation

\*In case the recommendation given by the Research Analyst is inconsistent with the investment rating legend for a continuous period of 30 days, the Research Analyst shall within following 30 days take appropriate measures to make the recommendation consistent with the investment rating legend.

The following Disclosures are being made in compliance with the SEBI Research Analyst Regulations 2014 (herein after referred to as the Regulations).

Motilal Oswal Financial Services Ltd. (MOFSL) is a SEBI Registered Research Analyst having registration no. INH000000412. MOFSL, the Research Entity (RE) as defined in the Regulations, is engaged in the business of providing Stock broking services, Investment Advisory Services, Depository participant services & distribution of various financial products. MOFSL is a subsidiary company of Passionate Investment Management Pvt. Ltd.. (PIMPL). MOFSL is a listed public company, the details in respect of which are available on www.motilaloswal.com. MOFSL (erstwhile Motilal Oswal Securities Limited - MOFSL) is registered with the Securities & Exchange Board of India (SEBI) and is a registered Trading Member with National Stock Exchange of India Ltd. (NSE) and Bombay Stock Exchange Limited (BSE), Multi Commodity Exchange of India Limited (MCX) and National Commodity & Derivatives Exchange Limited (NCDEX) for its stock broking activities & is Depository participant with Central Depository Services Limited (CDSL) National Securities Depository Limited (NSDL), NERL, COMRIS and CCRL and is member of Association of Mutual Funds of India (AMFI) for distribution of financial products and Insurance Regulatory & Development Authority of India (IRDA) as Corporate Agent for insurance products. Details of associate entities of Motilal Oswal Financial Services Limited are available on the website at http://onlinereports.motilaloswal.com/Dormant/documents/List%20of%20Associate%20companies.pdf

MOFSL and its associate company(ies), their directors and Research Analyst and their relatives may; (a) from time to time, have a long or short position in, act as principal in, and buy or sell the securities or derivatives thereof of companies mentioned herein. (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies) or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions, however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report

MOFSL and / or its affiliates do and seek to do business including investment banking with companies covered in its research reports. As a result, the recipients of this report should be aware that MOFSL may have a potential conflict of interest that may affect the objectivity of this report. Compensation of Research Analysts is not based on any specific merchant banking, investment banking or brokerage service transactions. Details of pending Enquiry Proceedings of Motilal Oswal Financial Services Limited are available on the website at <a href="https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx">https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx</a>

A graph of daily closing prices of securities is available at <a href="www.nseindia.com">www.nseindia.com</a>. Research Analyst views on Subject Company may vary based on Fundamental research and Technical Research. Proprietary trading desk of MOFSL or its associates maintains arm's length distance with Research Team as all the activities are segregated from MOFSL research activity and therefore it can have an independent view with regards to Subject Company for which Research Team have expressed their views.

This report is not directed or intended for distribution to or use by any person or entity resident in a state, country or any jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MOFSL & its group companies to registration or licensing requirements within such jurisdictions.

### For Hong Kong:

This report is distributed in Hong Kong by Motilal Oswal capital Markets (Hong Kong) Private Limited, a licensed corporation (CE AYY-301) licensed and regulated by the Hong Kong Securities and Futures Commission (SFC) pursuant to the Securities and Futures Ordinance (Chapter 571 of the Laws of Hong Kong) "SFO". As per SEBI (Research Analyst Regulations) 2014 Motilal Oswal Securities (SEBI Reg No. INH000000412) has an agreement with Motilal Oswal capital Markets (Hong Kong) Private Limited for distribution of research report in Hong Kong. This report is intended for distribution only to "Professional Investors" as defined in Part I of Schedule 1 to SFO. Any investment or investment activity to which this document relates is only available to professional investor and will be engaged only with professional investors." Nothing here is an offer or solicitation of these securities, products and services in any jurisdiction where their offer or sale is not qualified or exempt from registration. The Indian Analyst(s) who compile this report is/are not located in Hong Kong & are not conducting Research Analysis in Hong Kong.

### For U.S.

Motilal Oswal Financial Services Limited (MOFSL) is not a registered broker - dealer under the U.S. Securities Exchange Act of 1934, as amended (the "1934 act") and under applicable state laws in the United States. In addition MOFSL is not a registered investment adviser under the U.S. Investment Advisers Act of 1940, as amended (the "Advisers Act" and together with the 1934 Act, the "Acts), and under applicable state laws in the United States. Accordingly, in the absence of specific exemption under the Acts, any brokerage and investment services provided by MOFSL, including the products and services described herein are not available to or intended for U.S. persons. This report is intended for distribution only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the Exchange Act and interpretations thereof by SEC (henceforth referred to as "major institutional investors"). This document must not be acted on or relied on by persons who are not major institutional investors. Any investment or investment activity to which this document relates is only available to major institutional investors and will be engaged in only with major institutional investors. In reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act") and interpretations thereof by the U.S. Securities and Exchange Commission ("SEC") in order to conduct business with Institutional Investors based in the U.S., MOFSL has entered into a chaperoning agreement with a U.S. registered brokerdealer, Motilal Oswal Securities International Private Limited. ("MOSIPL"). Any business interaction pursuant to this report will have to be executed within the provisions of this

The Research Analysts contributing to the report may not be registered /qualified as research analyst with FINRA. Such research analyst may not be associated persons of the U.S. registered broker-dealer, MOSIPL, and therefore, may not be subject to NASD rule 2711 and NYSE Rule 472 restrictions on communication with a subject company, public appearances and trading securities held by a research analyst account.

### For Singapore

In Singapore, this report is being distributed by Motilal Oswal Capital Markets Singapore Pte Ltd ("MOCMSPL") (Co.Reg. NO. 201129401Z) which is a holder of a capital markets services license and an exempt financial adviser in Singapore.As per the approved agreement under Paragraph 9 of Third Schedule of Securities and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Advisors Act (CAP 110) provided to MOCMSPL by Monetary Authority of Singapore. Persons in Singapore should contact MOCMSPL in respect of any matter arising from, or in connection with this report/publication/communication. This report is distributed solely to persons who qualify as "Institutional Investors", of which some of whom may consist of "accredited" institutional investors as defined in section 4A(1) of the Securities and Futures Act, Chapter 289 of Singapore ("the SFA"). Accordingly, if a Singapore person is not or ceases to be such an institutional investor, such Singapore Person must immediately discontinue any use of this Report and inform MOCMSPL.

### Specific Disclosures

- MOFSL, Research Analyst and/or his relatives does not have financial interest in the subject company, as they do not have equity holdings in the subject company.
- MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- MOFSL, Research Analyst and/or his relatives do not have material conflict of interest in the subject company at the time of publication of research report
- Research Analyst has not served as director/officer/employee in the subject company
- MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months

  MOFSL has not received compensation for investment banking/ merchant banking/brokerage services from the subject company in the past 12 months
- MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- MOFSL has not received any compensation or other benefits from third party in connection with the research report
- MOFSL has not engaged in market making activity for the subject company

7 4 November 2020

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company
- received compensation/other benefits from the subject company in the past 12 months
- other potential conflict of interests with respect to any recommendation and other related information and opinions.; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.
- acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies)
- received compensation from the subject company in the past 12 months for investment banking / merchant banking / brokerage services or from other than said services.

The associates of MOFSL has not received any compensation or other benefits from third party in connection with the research report

Above disclosures include beneficial holdings lying in demat account of MOFSL which are opened for proprietary investments only. While calculating beneficial holdings, it does not consider demat accounts which are opened in name of MOFSL for other purposes (i.e holding client securities, collaterals, error trades etc.). MOFSL also earns DP income from clients which are not considered in above disclosures.

### **Analyst Certification**

The views expressed in this research report accurately reflect the personal views of the analyst(s) about the subject securities or issues, and no part of the compensation of the research analyst(s) was, is, or will be directly or indirectly related to the specific recommendations and views expressed by research analyst(s) in this report.

#### Terms & Conditions:

This report has been prepared by MOFSL and is meant for sole use by the recipient and not for circulation. The report and information contained herein is strictly confidential and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent of MOFSL. The report is based on the facts, figures and information that are considered true, correct, reliable and accurate. The intent of this report is not recommendatory in nature. The information is obtained from publicly available media or other sources believed to be reliable. Such information has not been independently verified and no guaranty, representation of warranty, express or implied, is made as to its accuracy, completeness or correctness. All such information and opinions are subject to change without notice. The report is prepared solely for informational purpose and does not constitute an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments for the clients. Though disseminated to all the customers simultaneously, not all customers may receive this report at the same time. MOFSL will not treat recipients as customers by virtue of their receiving this report.

### Disclaimer:

The report and information contained herein is strictly confidential and meant solely for the selected recipient and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent. This report and information herein is solely for informational purpose and may not be used or considered as an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments. Nothing in this report constitutes investment, legal, accounting and tax advice or a representation that any investment or strategy is suitable or appropriate to your specific circumstances. The securities discussed and opinions expressed in this report may not be suitable for all investors, who must make their own investment decisions, based on their own investment objectives, financial positions and needs of specific recipient. This may not be taken in substitution for the exercise of independent judgment by any recipient. Each recipient of this document should make such investigations as it deems necessary to arrive at an independent evaluation of an investment in the securities of companies referred to in this document (including the merits and risks involved), and should consult its own advisors to determine the merits and risks of such an investment. The investment discussed or views expressed may not be suitable for all investors. Certain transactions -including those involving futures, options, another derivative products as well as non-investment grade securities - involve substantial risk and are not suitable for all investors. No representation or warranty, express or implied, is made as to the accuracy, completeness or fairness of the information and opinions contained in this document. The Disclosures of Interest Statement incorporated in this document is provided solely to enhance the transparency and should not be treated as endorsement of the views expressed in the report. This information is subject to change without any prior notice. The Company reserves the right to make modifications and alternations to this statement as may be required from time to time without any prior approval. MOFSL, its associates, their directors and the employees may from time to time, effect or have effected an own account transaction in, or deal as principal or agent in or for the securities mentioned in this document. They may perform or seek to perform investment banking or other services for, or solicit investment banking or other business from, any company referred to in this report. Each of these entities functions as a separate, distinct and independent of each other. The recipient should take this into account before interpreting the document. This report has been prepared on the basis of information that is already available in publicly accessible media or developed through analysis of MOFSL. The views expressed are those of the analyst, and the Company may or may not subscribe to all the views expressed therein. This document is being supplied to you solely for your information and may not be reproduced, redistributed or passed on, directly or indirectly, to any other person or published, copied, in whole or in part, for any purpose. This report is not directed 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, regulation or which would subject MOFSL to any registration or licensing requirement within such jurisdiction. The securities described herein may or may not be eligible for sale in all jurisdictions or to certain category of investors. Persons in whose possession this document may come are required to inform themselves of and to observe such restriction. Neither the Firm, not its directors, employees, agents or representatives shall be liable for any damages whether direct or indirect, incidental, special or consequential including lost revenue or lost profits that may arise from or in connection with the use of the information. The person accessing this information specifically agrees to exempt MOFSL or any of its affiliates or employees from, any and all responsibility/liability arising from such misuse and agrees not to hold MOFSL or any of its affiliates or employees responsible for any such misuse and further agrees to hold MOFSL or any of its affiliates or employees free and harmless from all losses, costs, damages, expenses that may be suffered by the person accessing this information due to any errors and delays.

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022 71934200/ 022-71934263; Website <a href="https://www.motilaloswal.com">www.motilaloswal.com</a>. CIN no.: L67190MH2005PLC153397. Correspondence Office Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad(West), Mumbai-400 064. Tel No: 022 7188 1000.

Registration Nos.: Motilal Oswal Financial Services Limited (MOFSL)\*: INZ000158836(BSE/NSE/MCX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412. AMFI: ARN - 146822; Investment Adviser: INA000007100; Insurance Corporate Agent: CA0579;PMS:INP000006712. Motilal Oswal Asset Management Company Ltd. (MOAMC): PMS (Registration No.: INP000000670); PMS and Mutual Funds are offered through MOAMC which is group company of MOFSL. Motilal Oswal Financial Services Limited is a distributor of Mutual Funds, PMS, Fixed Deposit, Bond, NCDs,Insurance Products and IPOs.Real Estate is offered through Motilal Oswal Real Estate Investment Advisors II Pvt. Ltd. which is a group company of MOFSL. Private Equity is offered through Motilal Oswal Private Equity Investment Advisors Pvt. Ltd which is a group company of MOFSL. Research & Advisory services is backed by proper research. Please read the Risk Disclosure Document prescribed by the Stock Exchanges carefully before investing. There is no assurance or guarantee of the returns. Investment in securities market is subject to market risk, read all the related documents carefully before investing. Details of Compliance Officer: Name: Neeraj Agarwal, Email ID: na@motilaloswal.com, Contact No.:022-71881085.

\* MOFSL has been amalgamated with Motilal Oswal Financial Services Limited (MOFSL) w.e.f August 21, 2018 pursuant to order dated July 30, 2018 issued by Hon'ble National Company Law Tribunal, Mumbai Bench.