

# **Godrej Agrovet**

**BSE SENSEX S&P CNX** 40,802 12,048

CMP: INR486 TP: INR584 (+20%)

Buy

# Gobrej agrovet

### Stock Info

Bloomberg	GOAGRO IN
Equity Shares (m)	192
M.Cap.(INRb)/(USDb)	93.3 / 1.3
52-Week Range (INR)	565 / 422
1, 6, 12 Rel. Per (%)	-7/-6/-16
12M Avg Val (INR M)	45
Free float (%)	31.0

Financials Snapshot (INR b)

Y/E Mar	2019	2020E	2021E		
Net Sales	58.7	69.6	78.9		
EBITDA	4.6	4.8	6.6		
PAT	2.4	2.6	3.9		
EPS (INR)	12.5	13.6	20.1		
EBITDA Gr. (%)	2.9	4.6	39.1		
EPS Gr. (%)	10.9	8.4	48.1		
RoE (%)	15.7	15.1	20.0		
RoCE (%)	15.4	14.5	18.4		
EV/EBITDA (x)	22.2	21.1	15.1		
P/E (x)	38.8	35.8	24.1		

### Shareholding pattern (%)

As On	Sep-19	Jun-19	Sep-18
Promoter	69.0	69.0	68.8
DII	2.2	2.7	3.4
FII	3.4	3.3	2.6
Others	25.4	25.1	25.3

Note: FII includes depository receipts

### Stock Performance (1-year)



### Palm oil biz on strong footing for FY21...

### ...aided by higher volume and realization

Indonesia and Malaysia – that account for ~86% of the world's palm oil production – are planning to increase the usage of palm oil for the production of biodiesel. This should eventually lead to palm oil prices increasing as palm oil supply for food and other usages would decrease. In this note, we highlight the event and its impact on GOAGRO.

- Indonesia accounts for 54% of the global palm oil production. The country intends to implement B30 biodiesel (from B20 currently), which in turn would increase its domestic consumption by 3MMT. Thus, the implementation of B30 would incrementally take away 9% of Indonesia's palm oil supply.
- Malaysia accounts for ~32% of the global palm oil production and is also in the process of implementing B20 (from B10 currently), which would increase its domestic consumption by 1MMT (5% of its production).
- Thus, the intention of the two countries (together account for ~86% of the global supply) to use palm oil for biodiesel will divert ~6% of the global supply to biodiesel, resulting in palm oil prices inching up.
- We believe that this event would be a positive for GOAGRO's palm oil division in FY21 (expect segment revenue/EBIT to grow at 34%/91% YoY in FY21). We haven't factored in any material improvement in FY20 as ~60% of the segment's revenue is realized in the 1H of the fiscal year.
- We have a Buy rating on the stock with SOTP-based TP of INR584.

### Higher usage of palm oil in biodiesel may increase prices...

- Indonesia and Malaysia are the world's largest palm oil producers and together account for ~86% share of palm oil production globally. According to <a href="mailto:media">media</a> <a href="mailto:articles">articles</a>, both the South-East Asian countries are likely to increase the usage of palm oil for the production of biodiesel, which shall be used for their own consumption.
- The increase in allocation of palm oil toward biodiesel comes on the back of lower palm oil prices. Also, it should aid the two countries in saving precious foreign exchange from the reduction in diesel imports.
- The Indonesian government intends to implement B30 biodiesel (from B20 currently) in 2020, which would increase domestic consumption of crude palm oil by 3MMT. Currently, Indonesia's total palm oil production stands at ~33MMT (54% of global production). Therefore, post implementation of B30, incrementally 9% of Indonesia's supply would be directed toward biodiesel consumption.
- Additionally, Malaysia which accounts for ~32% of the global production is also in the process of implementing B20. The country currently uses B10; the plan is to introduce B20 in stages beginning Jan'20. If B20 is implemented, domestic consumption of crude palm oil in Malaysia will incrementally increase by 1MMT; the country currently produces ~19MMT crude palm oil.

Sumant Kumar – Research Analyst (Sumant.Kumar@MotilalOswal.com); +91 22 6129 1569

■ Following the usage of palm oil by both countries to produce biodiesel, ~6% of the global supply is expected to get diverted toward biodiesel. This may result in prices inching up (palm oil prices have increased ~32% in the last 4 months to USD645/MT).

### ...but, positive for GOAGRO

- Oil palm plantations in India are regulated. GOAGRO is a participant in the government's Oil Palm Development Program (OPDP), which gives the company access to produce of Fresh Fruit Bunches (FFBs) from farmers in designated areas. Thus, GOAGRO has an asset-light business model, wherein it procures FFBs from farmers and sells it after processing the same.
- GOAGRO procures FFBs from farmers based on the price determined by the government. Additionally, in order to promote the cultivation of oil palm plantation in India, the government has imposed duty on the import of palm oil (currently 40% on crude palm oil).
- Palm oil segment contributed 12%/23% to revenue/EBIT of GOAGRO in FY19 and the company has clocked revenue/EBIT CAGR of 14%/12% over FY14-19.
- However, in 1HFY20, GOAGRO's palm oil segment revenue/EBIT declined 12%/49% YoY. Performance in 1HFY20 was impacted due to (a) decline in palm oil prices and (b) FFBs having lower oil content due to heat waves, which impacted yields.
- However, all these conditions should improve as (a) global palm oil prices are expected to inch up, (b) normal rainfall has been witnessed in the kharif season, and (c) to prevent spillover to neighboring states. GOAGRO has taken corrective actions by narrowing the pricing difference by working with the governments of the two states of Telangana and Andhra Pradesh.
- We haven't baked in any material improvement in the palm oil division's performance for FY20 as ~60% of the segment's revenue is realized in the 1H of the fiscal year. We believe the initiatives undertaken by the company to increase sales volume and the expected increase in global palm oil prices should aid the segment's revenue/EBIT growth of 34%/91% YoY in FY21.

### Valuation and view

We believe management is taking corrective action across its business segments to ensure the revival in growth and margins. Additionally, improvement in palm oil prices should aid improvement in the segment's performance. We expect revenue/EBITDA/PAT to grow at 16%/21%/27% CAGR over FY19-21. Our SOTPbased target price stands at INR584. Maintain Buy.

**Exhibit 1: Valuation methodology** 

Exhibit 1. Valuation methodolo	67								
Particulars	FY21E (INR m)	EV/ EBITDA (x)	EV (INR m)	Net Debt (INR m)	Equity Value (INR m)	GOAGRO's share (%)	Value (INR m)	Value/ share (INR)	% Sh.
Standalone:									
Crop Protection	1,856	18.0	33,403		33,403	100%	33,403	174	30%
Palm Oil	1,590	17.0	27,031		27,031	100%	27,031	141	24%
Animal Feed	2,779	16.0	44,461		44,461	100%	44,461	232	40%
Unallocated expenses	(1,188)	7.0	(8,315)		(8,315)	100%	(8,315)	(43)	-7%
Total	5,037	19.2	96,581	1,431	95,149	100%	95,149	495	85%
Subsidiaries:									
Astec (mcap with 20% holdco disc)					5,424	57%	3,116	16	3%
Creamline Dairy	688	17.0	11,696	204	11,492	52%	5,965	31	5%
Godrej Tyson Foods Limited	301	17.0	5,109		5,109	51%	2,606	14	2%
JV/ Associate:									
ACI Godrej Agrovet Private Limited	667	16.0	10,677		10,677	50%	5,339	28	5%
Total	6,693	18.5	124,063		127,851			584	100%
СМР								486	
Upside								20%	

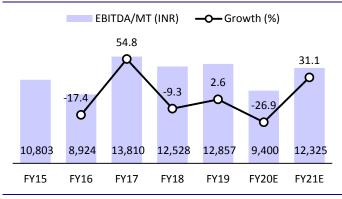
Source: MOFSL

Exhibit 2: Global palm oil production by country (~62MMT)

Nigeria; 2% Others; 8% Colombia; 2% Thailand; 3% Indonesia; 54% Malaysia; 32%

Source: Industry, MOFSL

Exhibit 3: EBITDA/MT in palm oil segment of GOAGRO



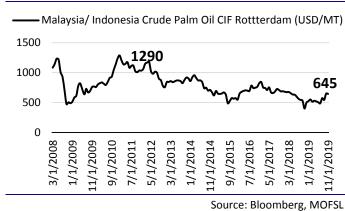
Source: MOFSL

Exhibit 4: Global palm oil consumption (~65MMT)



Source: Industry, MOFSL

Exhibit 5: Crude palm oil price trend



3 December 2019 3

Exhibit 6: Expect 12% revenue CAGR over FY19-21 in palm oil biz...

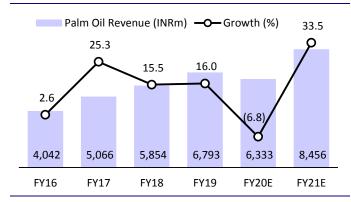


Exhibit 7: ...with EBITDA margin contraction of 50bp

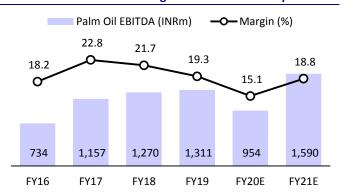


Exhibit 8: Expect consol. revenue CAGR of 16% over FY19-21

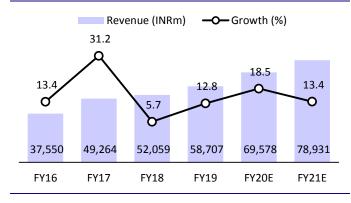
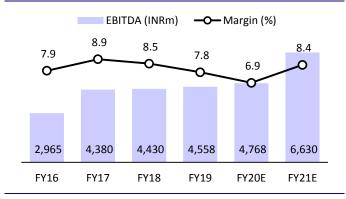
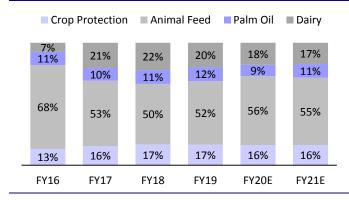


Exhibit 9: EBITDA margin should expand 65bp over FY19-21



**Exhibit 10: Revenue mix trend** 



**Exhibit 11: EBIT mix trend** 

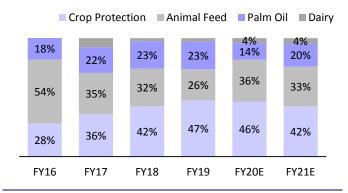
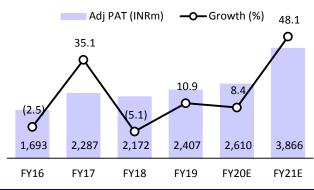
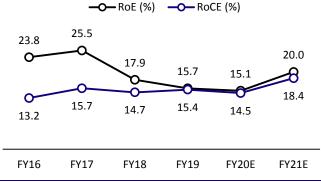


Exhibit 12: Expect Adj. PAT at 27% CAGR over FY19-21



**Exhibit 13: RoE and RoCE trend** 



Source: Company, MOFSL Source: Company, MOFSL

3 December 2019 4

## **Financials and Valuations**

VEMarch	Consolidated - Income Statement							(INR M)
Change (%)         6.7         13.4         31.2         5.7         12.8         18.5         13.4           Total Expenditure         30.059         34,585         44,884         47,629         54,149         64,810         72,301           % of Sales         30.8         92.1         91.1         91.5         92.2         93.1         91.6           EBITOA         3,059         2,665         4,880         4,430         4,558         4,68         6,630           Depreciation         370         524         747         859         982         1,486         1,552           EBIT         2,690         2,441         3,633         3,571         3,577         3,282         5,078           Int. and Finance Charges         665         977         863         493         339         442         315           Other Income         137         627         590         318         531         464         553           PBT beff. EO Exp.         2,172         2,091         3,360         3,486         3,769         3,305         5,316           Other Income         364         946         200         121         883         0         0      <	Y/E March	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
Total Expenditure	Total Income from Operations	33,118	37,550	49,264	52,059	58,707	69,578	78,931
Section   Sect	Change (%)	6.7	13.4	31.2	5.7	12.8	18.5	13.4
Bellina   3,059   2,965   4,380   4,430   4,558   4,768   6,630   Margin (%)   9.2   7.9   8.9   8.5   7.8   6.69   8.4   Depreciation   370   524   747   859   982   1,486   1,552   EBIT   2,690   2,441   3,633   3,571   3,577   3,782   5,078   EBIT   2,690   2,441   3,633   3,571   3,577   3,382   5,078   EBIT   3,690   2,441   3,633   3,571   3,577   3,382   5,078   EBIT   3,690   2,441   3,633   3,571   3,577   3,382   5,078   EBIT   4,690   2,441   3,633   3,571   3,577   3,382   5,078   EBIT   5,60 Exp.   137   627   590   318   531   464   553   ED Itlems   364   946   200   121   883   30   0.0   ED Itlems   364   946   200   121   883   30   0.0   ED Itlems   364   946   200   121   883   30   0.0   ED Itlems   605   754   1,018   1,207   1,280   605   5,316   ED Itlems   605   754   1,018   1,207   1,280   605   5,316   ED Itlems   605   754   1,018   1,207   1,280   605   1,338   Tax Rate (%)   23.9   24.8   28.6   33.9   27.5   18.3   25.2   ED Itlems   7,000   7,000   7,000   7,000   ED Tatle EAV   1,700   3,565   55   57   82   89   111   ERPOTED PAT   2,101   2,639   2,487   2,292   3,290   2,610   3,866   Adjusted PAT   1,736   1,693   2,287   2,172   2,407   2,610   3,866   Adjusted PAT   1,736   1,693   2,287   2,172   2,407   2,610   3,866   Adjusted PAT   1,736   1,693   2,287   2,172   2,407   2,610   3,866   Adjusted PAT   1,736   1,693   2,287   2,172   2,407   2,610   3,866   Adjusted PAT   1,736   1,693   2,287   2,172   2,407   2,610   3,866   Adjusted PAT   1,736   1,693   2,287   2,172   2,407   2,610   3,866   Adjusted PAT   1,736   1,693   2,287   2,172   2,407   2,610   3,866   Adjusted PAT   1,736   1,693   2,287   2,172   2,407   2,610   3,866   Adjusted PAT   1,736   1,693   2,287   2,172   2,407   2,610   3,866   Adjusted PAT   1,736   1,736   1,730   2,086   2,086   2,086   ED Tatle Reserves   5,478   6,966   8,237   1,293   1,450   1,500   1,500   ED Tatle Reserves   5,478   6,966   8,237   1,293   1,450   1,500   1,500   ED Tatle Reserves   5,478   6,966   8,237   1,293	Total Expenditure	30,059	34,585	44,884	47,629	54,149	64,810	72,301
Margin (%)   9.2   7.9   8.9   8.5   7.8   6.9   8.4	% of Sales	90.8	92.1	91.1	91.5	92.2	93.1	91.6
Depreciation	EBITDA	3,059	2,965	4,380	4,430	4,558	4,768	6,630
EBIT	Margin (%)	9.2	7.9	8.9	8.5	7.8	6.9	8.4
Int. and Finance Charges         655         977         863         453         339         442         315           Other Income         137         627         590         318         531         464         553           PST bef. EO Exp.         2,172         2,091         3,360         3,436         3,769         3,305         5,316           EO Items         364         946         200         121         883         0         0           PST after EO Exp.         2,536         3,037         3,560         3,557         4652         3,005         5,318           Total Tax         605         754         1,018         1,207         1,280         605         1,338           Tax Rate (%)         23.9         24.8         28.6         33.9         27.5         18.3         25.2           Profit from Associate & MI         1.70         -356         55         57         82         89         111           Reported PAT         2,101         2,639         2,487         2,212         2,407         2,610         3,866           Adjusted PAT         1,736         1,693         2,287         2,172         2,407         2,610         3,866	Depreciation	370	524	747	859	982	1,486	1,552
Other Income         137         627         590         318         531         464         553           PBT bef. EO Exp.         2,172         2,091         3,360         3,468         3,769         3,305         5,316           CO Items         364         946         200         121         883         0         0           PBT after EO Exp.         2,536         3,037         3,560         3,577         4,652         3,305         5,316           Total Tax         605         754         1,018         1,207         1,288         605         1,338           Tax Rate (%)         23.9         24.8         28.6         33.9         2.75         18.3         25.2           Profit from Associate & MI         1.70         -355         55         57         82         89         111           Reported PAT         2,101         2,639         2,487         2,172         2,407         2,610         3,866           Adjusted PAT         1,736         1,693         2,287         2,172         2,407         2,610         3,866           Change (%)         10.9         2.5         35.1         16.1         3.9         4,61         4.9	EBIT	2,690	2,441	3,633	3,571	3,577	3,282	5,078
PBT bef. EO Exp.         2,172         2,091         3,360         3,436         3,769         3,305         5,316           EO Items         364         946         200         121         883         0         0           PBT after EO Exp.         2,536         3,037         3,560         3,557         4,652         3,305         5,316           Total Tax         605         754         1,018         1,207         1,280         605         1,338           Tax Rate (%)         23.9         24.8         28.6         33.9         27.5         18.3         25.2           Profit from Associate & MI         -170         -556         55         57         82         89         111           Reported PAT         1,736         1,693         2,287         2,272         3,290         2,610         3,866           Change (%)         10.9         -2.5         35.1         -5.1         10.9         8.4         48.1           Margin (%)         5.2         4.5         4.6         4.2         4.1         3.8         4.9           Consolidated - Balance Sheet         ***********************************	Int. and Finance Charges	655	977	863	453	339	442	315
EO Items   364   946   200   121   883   0   0     PBT after EO Exp.   2,536   3,037   3,550   3,557   4,652   3,305   5,315     Total Tax   605   754   1,018   1,207   1,280   605   1,338     Tax Rate (%)   23.9   24.8   28.6   33.9   27.5   18.3   25.2     Profit from Associate & MI   -170   -356   55   57   82   89   111     Reported PAT   2,101   2,639   2,487   2,292   3,290   2,610   3,866     Adjusted PAT   1,736   1,693   2,287   2,172   2,407   2,610   3,866     Change (%)   10.9   -2.5   35.1   -5.1   10.9   8.4   48.1     Margin (%)   5.2   4.5   4.6   4.2   4.1   3.8   4.9     Consolidated - Balance Sheet	Other Income	137	627	590	318	531	464	553
PBT after EO Exp.         2,536         3,037         3,560         3,557         4,652         3,305         5,316           Total Tax         605         754         1,018         1,207         1,280         605         1,338           Tax Rate (%)         23,9         24.8         8.6         33,9         27.5         18.3         25.2           Profit from Associate & MI         -170         -356         55         57         82         89         111           Reported PAT         1,736         1,693         2,287         2,292         3,290         2,610         3,866           Change (%)         10.9         -2.5         35.1         -5.1         10.9         8.4         48.1           Margin (%)         5.2         4.5         4.6         4.2         4.1         3.8         4.9           Consolidated - Balance Sheet         (INR M)           VIEW March         FY15         FY17         FY18         FY19         FY20E         FY21E         FY18         FY19         FY20E         FY21E         FY18         FY19         FY20E         FY21E         FY18         FY19         FY20E         FY21E         FY21E         FY18	PBT bef. EO Exp.	2,172	2,091	3,360	3,436	3,769	3,305	5,316
Total rax	EO Items	364	946	200	121	883	0	0
Tax Rate (%)         23.9         24.8         28.6         33.9         27.5         18.3         25.2           Profit from Associate & Mil         -170         -356         55         57         82         89         111           Reported PAT         2,101         2,639         2,487         2,292         3,290         2,610         3,866           Adjusted PAT         1,736         1,693         2,287         2,172         2,407         2,610         3,866           Change (%)         10.9         -2.5         35.1         -5.1         10.9         8.4         48.1           Margin (%)         5.2         4.5         4.6         4.2         4.1         3.8         4.9           Consolidated - Balance Sheet         (INR M)           YE March         FY15         FY16         FY17         FY18         FY19         FY20E         FY21E           Equity Share Capital         926         926         1,851         1,920         1,920         1,920         1,920           Total Reserves         5,478         6,906         8,237         12,193         14,570         16,139         18,734           Net Worth         6,404         7	PBT after EO Exp.	2,536	3,037	3,560	3,557	4,652	3,305	5,316
Profit from Associate & MI         -170         -356         55         57         82         89         111           Reported PAT         2,101         2,639         2,487         2,292         3,290         2,610         3,866           Adjusted PAT         1,736         1,693         2,287         2,172         2,407         2,610         3,866           Change (%)         10.9         -2.5         35.1         -5.1         10.9         8.4         48.1           Margin (%)         5.2         4.5         4.6         4.2         4.1         3.8         4.9           Consolidated - Balance Sheet         FY15         FY16         FY17         FY18         FY19         FY20E         FY21E           Equity Share Capital         926         926         1,851         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920 <td>Total Tax</td> <td>605</td> <td>754</td> <td>1,018</td> <td>1,207</td> <td>1,280</td> <td>605</td> <td>1,338</td>	Total Tax	605	754	1,018	1,207	1,280	605	1,338
Reported PAT	Tax Rate (%)	23.9	24.8	28.6	33.9	27.5	18.3	25.2
Adjusted PAT         1,736         1,693         2,287         2,172         2,407         2,610         3,866           Change (%)         10.9         -2.5         35.1         -5.1         10.9         8.4         48.1           Margin (%)         5.2         4.5         4.6         4.2         4.1         3.8         4.9           Consolidated - Balance Sheet         "FY15" FY16" FY17" FY18" FY19" FY20E         FY20E         FY21E           Equity Share Capital         926         926         1,851         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920	Profit from Associate & MI	-170	-356	55	57	82	89	111
Change (%)         10.9         -2.5         35.1         -5.1         10.9         8.4         48.1           Margin (%)         5.2         4.5         4.6         4.2         4.1         3.8         4.9           Consolidated - Balance Sheet         (INR M)           Y/E March         FY15         FY16         FY17         FY18         FY19         FY20E         FY21E           Equity Share Capital         926         926         1,851         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,921         1,920         1,920         1,921         1,920         1,920         1,9	Reported PAT	2,101	2,639	2,487	2,292	3,290	2,610	3,866
Margin (%)         5.2         4.5         4.6         4.2         4.1         3.8         4.9           Consolidated - Balance Sheet         (INR M)           Y/E March         FY15         FY16         FY17         FY18         FY19         FY20E         FY21E           Equity Share Capital         926         926         1,851         1,920         1,920         1,920           Total Reserves         5,478         6,906         8,237         12,193         14,570         16,139         18,734           Met Worth         6,404         7,832         10,088         14,114         16,490         18,059         20,654           Minority Interest         0         2,323         2,541         2,693         4,010         4,195         4,413           Total Loans         6,848         13,757         6,641         4,098         3,950         3,700         3,450           Deferred Tax Liabilities         565         1,458         1,663         1,730         2,086         2,086           Capital Employed         13,818         25,369         20,933         22,125         26,536         28,041         30,603           Gross Block         6,417         12,139	Adjusted PAT	1,736	1,693	2,287	2,172	2,407	2,610	3,866
Consolidated - Balance Sheet         FY15         FY16         FY17         FY18         FY19         FY20E         FY21E           Equity Share Capital         926         926         1,851         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,010         1,920         1,613         1,873         1,653         1,610         1,010         1,620         1,010         1,620         <	Change (%)	10.9	-2.5	35.1	-5.1	10.9	8.4	48.1
Y/E March         FY15         FY16         FY17         FY18         FY19         FY20E         FY21E           Equity Share Capital         926         926         1,851         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,620         1,613         18,730         2,086         2,086         2,086         2,086         2,085         2,640         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086		5.2	4.5	4.6	4.2	4.1	3.8	4.9
Y/E March         FY15         FY16         FY17         FY18         FY19         FY20E         FY21E           Equity Share Capital         926         926         1,851         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,920         1,620         1,613         18,730         2,086         2,086         2,086         2,086         2,085         2,640         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086         2,086								
Equity Share Capital         926         926         1,851         1,920         1,920         1,920         1,920           Total Reserves         5,478         6,906         8,237         12,193         14,570         16,139         18,734           Net Worth         6,404         7,832         10,088         14,114         16,499         18,059         20,654           Minority Interest         0         2,323         2,541         2,693         4,010         4,195         4,413           Total Loans         6,848         13,757         6,641         4,098         3,950         3,700         3,450           Deferred Tax Liabilities         565         1,458         1,663         1,730         2,086         2,086         2,086           Capital Employed         13,818         25,369         20,933         22,635         26,536         28,041         30,603           Gross Block         6,417         12,139         14,109         15,185         21,246         23,120         25,420           Less: Accum. Deprn.         975         564         1,329         2,214         3,196         4,681         6,234           Net Fixed Assets         5,443         11,575         12,779 <td>Consolidated - Balance Sheet</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(INR M)</td>	Consolidated - Balance Sheet							(INR M)
Total Reserves   5,478   6,906   8,237   12,193   14,570   16,139   18,734     Net Worth   6,404   7,832   10,088   14,114   16,490   18,059   20,654     Minority Interest   0   2,323   2,541   2,693   4,010   4,195   4,413     Total Loans   6,848   13,757   6,641   4,098   3,950   3,700   3,450     Deferred Tax Liabilities   555   1,458   1,663   1,730   2,086   2,086   2,086     Capital Employed   13,818   25,369   20,933   22,635   26,536   28,041   30,603     Gross Block   6,417   12,139   14,109   15,185   21,246   23,120   25,420     Less: Accum. Deprn.   975   564   1,329   2,214   3,196   4,681   6,234     Net Fixed Assets   5,443   11,575   12,779   12,971   18,050   18,438   19,186     Goodwill on Consolidation   0   1,949   1,949   1,949   2,649   2,649   2,649     Capital WIP   1,380   638   504   1,904   936   1,312   1,512     Total Investments   1,858   2,140   1,755   1,952   1,165   1,165     Total Investments   3,888   6,665   7,381   7,629   9,517   11,364   12,876     Account Receivables   2,693   4,545   5,219   6,315   7,349   8,578   9,731     Cash and Bank Balance   175   420   538   299   299   661   904     Loans and Advances   2,092   3,299   2,019   2,507   2,371   2,783   3,157     Curr. Liability & Prov.   3,711   5,862   11,212   12,890   15,800   18,909   20,577     Account Payables   2,141   3,349   8,408   9,550   12,394   14,915   16,441     Other Current Liabilities   1,434   2,312   2,496   2,955   2,928   3,479   3,552     Provisions   136   202   308   385   478   515   584     Net Current Assets   5,136   9,067   3,946   3,859   3,735   4,477   6,091     Total Investment   5,136   9,067   3,946   3,859   3,735   4,477   6,091	Y/E March	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
Net Worth         6,404         7,832         10,088         14,114         16,490         18,059         20,654           Minority Interest         0         2,323         2,541         2,693         4,010         4,195         4,413           Total Loans         6,848         13,757         6,641         4,098         3,950         3,700         3,450           Deferred Tax Liabilities         565         1,458         1,663         1,730         2,086         2,086         2,086           Capital Employed         13,818         25,369         20,933         22,635         26,536         28,041         30,603           Gross Block         6,417         12,139         14,109         15,185         21,246         23,120         25,420           Less: Accum. Deprn.         975         564         1,329         2,214         3,196         4,681         6,234           Net Fixed Assets         5,443         11,575         12,779         12,971         18,050         18,438         19,186           Goodwill on Consolidation         0         1,949         1,949         1,949         2,649         2,649         2,649           Capital WIP         1,380         638         504	Equity Share Capital	926	926	1,851	1,920	1,920	1,920	1,920
Minority Interest         0         2,323         2,541         2,693         4,010         4,195         4,413           Total Loans         6,848         13,757         6,641         4,098         3,950         3,700         3,450           Deferred Tax Liabilities         565         1,458         1,663         1,730         2,086         2,086         2,086           Capital Employed         13,818         25,369         20,933         22,635         26,536         28,041         30,603           Gross Block         6,417         12,139         14,109         15,185         21,246         23,120         25,420           Less: Accum. Deprn.         975         564         1,329         2,214         3,196         4,681         6,234           Net Fixed Assets         5,443         11,575         12,779         12,971         18,050         18,438         19,186           Goodwill on Consolidation         0         1,949         1,949         1,949         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649	Total Reserves	5,478	6,906	8,237	12,193	14,570	16,139	18,734
Total Loans         6,848         13,757         6,641         4,098         3,950         3,700         3,450           Deferred Tax Liabilities         565         1,458         1,663         1,730         2,086         2,086         2,086           Capital Employed         13,818         25,369         20,933         22,635         26,536         28,041         30,603           Gross Block         6,417         12,139         14,109         15,185         21,246         23,120         25,420           Less: Accum. Deprn.         975         564         1,329         2,214         3,196         4,681         6,234           Net Fixed Assets         5,443         11,575         12,779         12,971         18,050         18,438         19,186           Goodwill on Consolidation         0         1,949         1,949         1,949         2,649         2,649         2,649           Capital WIP         1,380         638         504         1,904         936         1,312         1,512           Total Investments         1,858         2,140         1,755         1,952         1,165         1,165           Liver. Assets, Loans&Adv.         8,847         14,930         15,157	Net Worth	6,404	7,832	10,088	14,114	16,490	18,059	20,654
Deferred Tax Liabilities         565         1,458         1,663         1,730         2,086         2,086         2,086           Capital Employed         13,818         25,369         20,933         22,635         26,536         28,041         30,603           Gross Block         6,417         12,139         14,109         15,185         21,246         23,120         25,420           Less: Accum. Deprn.         975         564         1,329         2,214         3,196         4,681         6,234           Net Fixed Assets         5,443         11,575         12,779         12,971         18,050         18,438         19,186           Goodwill on Consolidation         0         1,949         1,949         2,649         2,649         2,649           Capital WIP         1,380         638         504         1,904         936         1,312         1,512           Total Investments         1,858         2,140         1,755         1,952         1,165         1,165           Curr. Assets, Loans&Adv.         8,847         14,930         15,157         16,749         19,536         23,386         26,668           Inventory         3,888         6,665         7,381         7,629	Minority Interest	0	2,323	2,541	2,693	4,010	4,195	4,413
Capital Employed         13,818         25,369         20,933         22,635         26,536         28,041         30,603           Gross Block         6,417         12,139         14,109         15,185         21,246         23,120         25,420           Less: Accum. Deprn.         975         564         1,329         2,214         3,196         4,681         6,234           Net Fixed Assets         5,443         11,575         12,779         12,971         18,050         18,438         19,186           Goodwill on Consolidation         0         1,949         1,949         2,649         2,649         2,649           Capital WIP         1,380         638         504         1,904         936         1,312         1,512           Total Investments         1,858         2,140         1,755         1,952         1,165         1,165         1,165           Curr. Assets, Loans&Adv.         8,847         14,930         15,157         16,749         19,536         23,386         26,668           Inventory         3,888         6,665         7,381         7,629         9,517         11,364         12,876           Account Receivables         2,693         4,545         5,219         <	Total Loans	6,848	13,757	6,641	4,098	3,950	3,700	3,450
Gross Block         6,417         12,139         14,109         15,185         21,246         23,120         25,420           Less: Accum. Deprn.         975         564         1,329         2,214         3,196         4,681         6,234           Net Fixed Assets         5,443         11,575         12,779         12,971         18,050         18,438         19,186           Goodwill on Consolidation         0         1,949         1,949         1,949         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,	Deferred Tax Liabilities	565	1,458	1,663	1,730	2,086	2,086	2,086
Less: Accum. Deprn.         975         564         1,329         2,214         3,196         4,681         6,234           Net Fixed Assets         5,443         11,575         12,779         12,971         18,050         18,438         19,186           Goodwill on Consolidation         0         1,949         1,949         1,949         2,649         2,649         2,649           Capital WIP         1,380         638         504         1,904         936         1,312         1,512           Total Investments         1,858         2,140         1,755         1,952         1,165         1,165           Liventory         3,888         6,665         7,381         7,629         9,517         11,364         12,876           Account Receivables         2,693         4,545         5,219         6,315         7,349         8,578         9,731           Cash and Bank Balance         175         420         538         299         299         661         904           Loans and Advances         2,092         3,299         2,019         2,507         2,371         2,783         3,157           Curr. Liability & Prov.         3,711         5,862         11,212         12,890	Capital Employed	13,818	25,369	20,933	22,635	26,536	28,041	30,603
Less: Accum. Deprn.         975         564         1,329         2,214         3,196         4,681         6,234           Net Fixed Assets         5,443         11,575         12,779         12,971         18,050         18,438         19,186           Goodwill on Consolidation         0         1,949         1,949         1,949         2,649         2,649         2,649           Capital WIP         1,380         638         504         1,904         936         1,312         1,512           Total Investments         1,858         2,140         1,755         1,952         1,165         1,165           Liventory         3,888         6,665         7,381         7,629         9,517         11,364         12,876           Account Receivables         2,693         4,545         5,219         6,315         7,349         8,578         9,731           Cash and Bank Balance         175         420         538         299         299         661         904           Loans and Advances         2,092         3,299         2,019         2,507         2,371         2,783         3,157           Curr. Liability & Prov.         3,711         5,862         11,212         12,890								
Net Fixed Assets         5,443         11,575         12,779         12,971         18,050         18,438         19,186           Goodwill on Consolidation         0         1,949         1,949         1,949         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         2,649         1,512         1         1,65         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165         1,165 <t< td=""><td>Gross Block</td><td>6,417</td><td>12,139</td><td>14,109</td><td>15,185</td><td>21,246</td><td>23,120</td><td>25,420</td></t<>	Gross Block	6,417	12,139	14,109	15,185	21,246	23,120	25,420
Goodwill on Consolidation         0         1,949         1,949         1,949         2,649         2,649         2,649           Capital WIP         1,380         638         504         1,904         936         1,312         1,512           Total Investments         1,858         2,140         1,755         1,952         1,165         1,165         1,165           Curr. Assets, Loans&Adv.         8,847         14,930         15,157         16,749         19,536         23,386         26,668           Inventory         3,888         6,665         7,381         7,629         9,517         11,364         12,876           Account Receivables         2,693         4,545         5,219         6,315         7,349         8,578         9,731           Cash and Bank Balance         175         420         538         299         299         661         904           Loans and Advances         2,092         3,299         2,019         2,507         2,371         2,783         3,157           Curr. Liability & Prov.         3,711         5,862         11,212         12,890         15,800         18,909         20,577           Account Payables         2,141         3,349         8,408	Less: Accum. Deprn.	975	564	1,329	2,214	3,196	4,681	6,234
Capital WIP         1,380         638         504         1,904         936         1,312         1,512           Total Investments         1,858         2,140         1,755         1,952         1,165         1,165         1,165           Curr. Assets, Loans&Adv.         8,847         14,930         15,157         16,749         19,536         23,386         26,668           Inventory         3,888         6,665         7,381         7,629         9,517         11,364         12,876           Account Receivables         2,693         4,545         5,219         6,315         7,349         8,578         9,731           Cash and Bank Balance         175         420         538         299         299         661         904           Loans and Advances         2,092         3,299         2,019         2,507         2,371         2,783         3,157           Curr. Liability & Prov.         3,711         5,862         11,212         12,890         15,800         18,909         20,577           Account Payables         2,141         3,349         8,408         9,550         12,394         14,915         16,441           Other Current Liabilities         1,434         2,312 <t< td=""><td>Net Fixed Assets</td><td>5,443</td><td>11,575</td><td>12,779</td><td>12,971</td><td>18,050</td><td>18,438</td><td>19,186</td></t<>	Net Fixed Assets	5,443	11,575	12,779	12,971	18,050	18,438	19,186
Total Investments         1,858         2,140         1,755         1,952         1,165         1,165         1,165           Curr. Assets, Loans&Adv.         8,847         14,930         15,157         16,749         19,536         23,386         26,668           Inventory         3,888         6,665         7,381         7,629         9,517         11,364         12,876           Account Receivables         2,693         4,545         5,219         6,315         7,349         8,578         9,731           Cash and Bank Balance         175         420         538         299         299         661         904           Loans and Advances         2,092         3,299         2,019         2,507         2,371         2,783         3,157           Curr. Liability & Prov.         3,711         5,862         11,212         12,890         15,800         18,909         20,577           Account Payables         2,141         3,349         8,408         9,550         12,394         14,915         16,441           Other Current Liabilities         1,434         2,312         2,496         2,955         2,928         3,479         3,552           Provisions         136         202         <	Goodwill on Consolidation	0	1,949	1,949	1,949	2,649	2,649	2,649
Curr. Assets, Loans&Adv.         8,847         14,930         15,157         16,749         19,536         23,386         26,668           Inventory         3,888         6,665         7,381         7,629         9,517         11,364         12,876           Account Receivables         2,693         4,545         5,219         6,315         7,349         8,578         9,731           Cash and Bank Balance         175         420         538         299         299         661         904           Loans and Advances         2,092         3,299         2,019         2,507         2,371         2,783         3,157           Curr. Liability & Prov.         3,711         5,862         11,212         12,890         15,800         18,909         20,577           Account Payables         2,141         3,349         8,408         9,550         12,394         14,915         16,441           Other Current Liabilities         1,434         2,312         2,496         2,955         2,928         3,479         3,552           Provisions         136         202         308         385         478         515         584           Net Current Assets         5,136         9,067         3,946<	Capital WIP	1,380	638	504	1,904	936	1,312	1,512
Inventory         3,888         6,665         7,381         7,629         9,517         11,364         12,876           Account Receivables         2,693         4,545         5,219         6,315         7,349         8,578         9,731           Cash and Bank Balance         175         420         538         299         299         661         904           Loans and Advances         2,092         3,299         2,019         2,507         2,371         2,783         3,157           Curr. Liability & Prov.         3,711         5,862         11,212         12,890         15,800         18,909         20,577           Account Payables         2,141         3,349         8,408         9,550         12,394         14,915         16,441           Other Current Liabilities         1,434         2,312         2,496         2,955         2,928         3,479         3,552           Provisions         136         202         308         385         478         515         584           Net Current Assets         5,136         9,067         3,946         3,859         3,735         4,477         6,091	Total Investments	1,858	2,140	1,755	1,952	1,165	1,165	1,165
Inventory         3,888         6,665         7,381         7,629         9,517         11,364         12,876           Account Receivables         2,693         4,545         5,219         6,315         7,349         8,578         9,731           Cash and Bank Balance         175         420         538         299         299         661         904           Loans and Advances         2,092         3,299         2,019         2,507         2,371         2,783         3,157           Curr. Liability & Prov.         3,711         5,862         11,212         12,890         15,800         18,909         20,577           Account Payables         2,141         3,349         8,408         9,550         12,394         14,915         16,441           Other Current Liabilities         1,434         2,312         2,496         2,955         2,928         3,479         3,552           Provisions         136         202         308         385         478         515         584           Net Current Assets         5,136         9,067         3,946         3,859         3,735         4,477         6,091								
Account Receivables       2,693       4,545       5,219       6,315       7,349       8,578       9,731         Cash and Bank Balance       175       420       538       299       299       661       904         Loans and Advances       2,092       3,299       2,019       2,507       2,371       2,783       3,157         Curr. Liability & Prov.       3,711       5,862       11,212       12,890       15,800       18,909       20,577         Account Payables       2,141       3,349       8,408       9,550       12,394       14,915       16,441         Other Current Liabilities       1,434       2,312       2,496       2,955       2,928       3,479       3,552         Provisions       136       202       308       385       478       515       584         Net Current Assets       5,136       9,067       3,946       3,859       3,735       4,477       6,091	Curr. Assets, Loans&Adv.	8,847	14,930	15,157	16,749	19,536	23,386	26,668
Cash and Bank Balance         175         420         538         299         299         661         904           Loans and Advances         2,092         3,299         2,019         2,507         2,371         2,783         3,157           Curr. Liability & Prov.         3,711         5,862         11,212         12,890         15,800         18,909         20,577           Account Payables         2,141         3,349         8,408         9,550         12,394         14,915         16,441           Other Current Liabilities         1,434         2,312         2,496         2,955         2,928         3,479         3,552           Provisions         136         202         308         385         478         515         584           Net Current Assets         5,136         9,067         3,946         3,859         3,735         4,477         6,091	Inventory	3,888	6,665	7,381	7,629	9,517	11,364	12,876
Loans and Advances         2,092         3,299         2,019         2,507         2,371         2,783         3,157           Curr. Liability & Prov.         3,711         5,862         11,212         12,890         15,800         18,909         20,577           Account Payables         2,141         3,349         8,408         9,550         12,394         14,915         16,441           Other Current Liabilities         1,434         2,312         2,496         2,955         2,928         3,479         3,552           Provisions         136         202         308         385         478         515         584           Net Current Assets         5,136         9,067         3,946         3,859         3,735         4,477         6,091	Account Receivables	2,693	4,545	5,219	6,315	7,349	8,578	9,731
Curr. Liability & Prov.         3,711         5,862         11,212         12,890         15,800         18,909         20,577           Account Payables         2,141         3,349         8,408         9,550         12,394         14,915         16,441           Other Current Liabilities         1,434         2,312         2,496         2,955         2,928         3,479         3,552           Provisions         136         202         308         385         478         515         584           Net Current Assets         5,136         9,067         3,946         3,859         3,735         4,477         6,091	Cash and Bank Balance	175	420	538	299	299	661	904
Account Payables         2,141         3,349         8,408         9,550         12,394         14,915         16,441           Other Current Liabilities         1,434         2,312         2,496         2,955         2,928         3,479         3,552           Provisions         136         202         308         385         478         515         584           Net Current Assets         5,136         9,067         3,946         3,859         3,735         4,477         6,091	Loans and Advances	2,092	3,299	2,019	2,507	2,371	2,783	3,157
Account Payables         2,141         3,349         8,408         9,550         12,394         14,915         16,441           Other Current Liabilities         1,434         2,312         2,496         2,955         2,928         3,479         3,552           Provisions         136         202         308         385         478         515         584           Net Current Assets         5,136         9,067         3,946         3,859         3,735         4,477         6,091	Curr. Liability & Prov.							
Other Current Liabilities         1,434         2,312         2,496         2,955         2,928         3,479         3,552           Provisions         136         202         308         385         478         515         584           Net Current Assets         5,136         9,067         3,946         3,859         3,735         4,477         6,091	Account Payables							
Provisions         136         202         308         385         478         515         584           Net Current Assets         5,136         9,067         3,946         3,859         3,735         4,477         6,091	Other Current Liabilities							
Net Current Assets 5,136 9,067 3,946 3,859 3,735 4,477 6,091	Provisions	136						
	Net Current Assets	5,136	9,067	3,946	3,859	3,735	4,477	6,091
	Appl. of Funds							

## **Financials and Valuations**

Ratios							
Y/E March	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
Basic (INR)							
EPS	9.0	8.8	11.9	11.3	12.5	13.6	20.1
Cash EPS	11.0	11.5	15.8	15.8	17.6	21.3	28.2
BV/Share	33.4	40.8	52.5	73.5	85.9	94.0	107.6
DPS	3.7	2.1	4.5	4.5	4.5	4.5	5.5
Payout (%)	39.3	18.8	41.9	45.6	31.6	39.9	32.9
Valuation (x)							
P/E			40.8	43.0	38.8	35.8	24.1
Cash P/E			30.8	30.8	27.5	22.8	17.2
P/BV			9.3	6.6	5.7	5.2	4.5
EV/Sales			2.1	1.9	1.7	1.4	1.3
EV/EBITDA			23.3	22.5	22.2	21.1	15.1
Dividend Yield (%)			0.9	0.9	0.9	0.9	1.1
FCF per share			36.6	5.7	-11.4	8.9	8.5
Return Ratios (%)							
RoE	30.0	23.8	25.5	17.9	15.7	15.1	20.0
RoCE	17.5	13.2	15.7	14.7	15.4	14.5	18.4
RoIC	22.4	11.3	12.9	12.9	12.2	10.9	14.6
Working Capital Ratios							
Fixed Asset Turnover (x)	5.2	3.1	3.5	3.4	2.8	3.0	3.1
Asset Turnover (x)	2.4	1.5	2.4	2.3	2.2	2.5	2.6
Inventory (Days)	43	65	55	53	59	60	60
Debtor (Days)	30	44	39	44	46	45	45
Creditor (Days)	24	33	62	67	77	78	76
Leverage Ratio (x)							
Current Ratio	2.4	2.5	1.4	1.3	1.2	1.2	1.3
Interest Cover Ratio	4.1	2.5	4.2	7.9	10.6	7.4	16.1
Net Debt/Equity	1.0	1.6	0.6	0.3	0.2	0.2	0.1
Consolidated - Cash Flow Statement	=	E146	= 14=	E)/40	E)/40		Million)
Y/E March	FY15	FY16	FY17	FY18	FY19	FY20E	FY21E
OP/(Loss) before Tax	2,706	3,364	3,727	3,717	3,769	3,305	5,316
Depreciation	370	524	747	859	982	1,486	1,552
Interest & Finance Charges	620	885	715	453	-192	-22	-238
Direct Taxes Paid	-557	-456	-800	-837	-1,280	-605	-1,338
(Inc)/Dec in WC	-1,552	-1,024	5,145	-471	326	-195	-1,154
CF from Operations	1,587	3,293	9,534	3,721	3,605	3,968	4,139
Others Constitution in 150	-499	-1,610	-561	-183	0	0	0
CF from Operating incl EO	1,088	1,683	8,973	3,538	3,605	3,968	4,139
(Inc)/Dec in FA	-1,094	-1,223	-1,949	-2,448	-5,793	-2,250	-2,500
Free Cash Flow	-5	460	7,024	1,091	-2,188	1,718	1,639
(Pur)/Sale of Investments	-131	581	610	-131	787	0	0
Others	-44	-3,581	366	51	652	560	659
CF from Investments	-1,269	-4,223	-974	-2,528	-4,354	-1,690	-1,841
Issue of Shares	0	39	8	2	0	0	0
Inc/(Dec) in Debt	566	4,168	-7,027	-2,571	-148	-250	-250
Interest Paid	-650	-972	-861	-455	-339	-442	-315
Dividend Paid	-706	-452	0	-1,045	-1,041	-1,041	-1,272
Others	0	0	0	2,818	2,276	-186	-217
CF from Fin. Activity	-790	2,784	-7,881	-1,250	749	-1,918	-2,054
Inc/Dec of Cash	-970	244	119	-240	0	361	243
Opening Balance	1,146	175	419	538	299	300	661
Closing Balance	175	419	538	299	299	661	904

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. INH00000412. 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 - MOSL) 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

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>, <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.

### Regional Disclosures (outside India)

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.

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 broker-dealer, Motilal Oswal Securities International Private Limited. ("MOSIPL"). Any business interaction pursuant to this report will have to be executed within the provisions of this chaperoning agreement.

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

- 1 MOSL, 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.
- 2 MOSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company
- 3 MOSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- 4 MOSL, 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
- 5 Research Analyst has not served as director/officer/employee in the subject company
- 6 MOSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- 7 MOSL has not received compensation for investment banking/ merchant banking/brokerage services from the subject company in the past 12 months
- 8 MOSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- 9 MOSL has not received any compensation or other benefits from third party in connection with the research report
- 10 MOSL has not engaged in market making activity for the subject company

### 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 Öffice Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022 71934200/ 022-71934263; Website www.motilaloswal.com.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 Wealth Management Ltd. (MOWML): PMS (Registration No.: INP000004409) is offered through MOWML, which is a 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.

\* MOSL 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.