



Estimate change	↓
TP change	←
Rating change	←

Bloomberg	UPLL IN
Equity Shares (m)	765
M.Cap.(INRb)/(USDb)	536.5 / 6.6
52-Week Range (INR)	827 / 608
1, 6, 12 Rel. Per (%)	-5/-5/-20
12M Avg Val (INR M)	1594

Financials & Valuations (INR b)

i ilialiciais & vai	iuations (i	INIT D)	
Y/E Mar	2023	2024E	2025E
Sales	535.8	580.1	618.1
EBITDA	111.6	121.8	131.7
PAT	44.7	49.8	58.8
EBITDA (%)	20.8	21.0	21.3
EPS (INR)	58.5	65.1	76.9
EPS Gr. (%)	(7.8)	11.4	18.0
BV/Sh. (INR)	532	650	745
Ratios			
Net D/E	0.7	0.5	0.3
RoE (%)	18.4	16.7	16.7
RoCE (%)	15.0	14.7	15.1
Payout (%)	21.4	21.5	18.2
Valuations			
P/E (x)	12.2	11.0	9.3
EV/EBITDA (x)	6.7	5.8	5.0
Div Yield (%)	1.4	2.0	2.0
FCF Yield (%)	4.5	10.2	15.1

Shareholding pattern (%)

	Mar-23	Dec-22	Mar-22
Promoter	32.4	30.7	28.5
DII	14.4	16.2	17.8
FII	42.6	42.7	35.3
Others	10.6	10.4	18.5

Note: FII includes depository receipts

CMP: INR715 TP: INR750 (+5%) Neutral

Higher agrochemical inventory to create near-term challenge **Earnings below our expectations**

- UPLL reported muted 4QFY23 revenue growth of 4% YoY, primarily led by decline in post-patented product prices with ramp-up of supply from China as well as lower sales in North America (down 14% YoY). Operating performance deteriorated (down 16% YoY) due to liquidation of high-cost inventory, idle capacity costs (INR2.0-2.5b) to achieve competitive inventory position and unfavorable region mix (rise in share of LATAM).
- Gross debt/net debt reduced to INR230b/INR169b in FY23 from INR258.7b/ INR189b in FY22 (i.e. net debt reduced by USD440m v/s guidance of USD500m in 3QFY23).
- Factoring in UPLL's weak 4QFY23 performance, we cut our FY24E/FY25E earnings by 13%/9%. We reiterate our Neutral rating with a TP of INR750.

High-cost inventory and unfavorable region mix drag margins

- UPLL posted revenue of INR165.7b (est. INR168.4b) in 4QFY23, up 4% YoY (volume growth: 1%, price decline: 3%, FX: +6%). EBITDA stood at INR30.2b (est. INR38.6b), down 16% YoY. EBITDA margin was at 18.2% v/s 22.6% in 4QFY22. Adj. PAT stood at INR10.5b (est. INR19.4b), down 45% YoY. Effective tax rate came in at 24.5% in 4QFY23.
- Revenue from North America declined 14% YoY to INR30.1b due to delayed spring that impacted herbicides and insecticides adversely coupled with fall in glufosinate prices. Conversely, LATAM's revenue was up 12% YoY to INR64.4b, aided by strong growth in insecticide volume.
- India's revenue grew 15% YoY to INR15.9b, driven by growth in herbicides (Sweep Power®, Ferio®) and biosolutions. **Europe's** revenue rose 7% YoY despite macroeconomic challenges, unfavorable weather and product ban (Mancozeb). Revenue from the **RoW** increased 6% YoY, driven by herbicides.
- Net working capital (NWC) days in FY23 fell to 64 from 69 in FY22 due to lower receivable days (102 v/s 114) and improved inventory days (95 v/s 104).
- For FY23, UPLL's revenue/EBITDA grew 16%/10% YoY while Adj. PAT declined 8% YoY. CFO/FCFF stood at ~INR77.5b/INR24.8b.

Highlights from the management commentary

- Group guidance: Management has guided for revenue/EBITDA growth of 6-10%/8-12% for FY24; while ROCE is likely to increase by ~125-175bp.
- Differentiated & sustainable portfolio grew 12% YoY in FY23, led by growth in volumes. UPLL is on the path to achieve 50% of the revenue from differentiated portfolio by FY27E v/s 28% in FY23. Pipeline peak sales are expected to be at ~USD8.5b (78% of this is from differentiated portfolio).
- Currently, China has an overcapacity that it is trying to liquidate. Therefore, management expects 1QFY24 to be a challenging quarter as the pricing pressure will be intense in the global crop protection segment.
- Capex guidance for FY24 is USD350m with ~USD160m for specialty chemical and manufacturing division, ~USD20m for Advanta and rest for intangibles in the crop protection global business.

Sumant Kumar - Research Analyst (Sumant.Kumar@MotilalOswal.com)

Valuation and view

- Post re-opening of China, global agrochemical inventory level in channel surged thereby driving the prices lower for UPLL's key post-patented molecule.
- Considering the short-term challenges, the cash flow generation and debt repayments remain the key monitorables.
- We expect a revenue/EBITDA/Adj. PAT CAGR of 5%/6%/10% over FY23-25.
- Factoring in UPLL's weak 4QFY23 performance, we cut our FY24E/FY25E earnings by 13%/9%. We reiterate our Neutral rating with a TP of INR750 (premised on 10x FY25 P/E; ~10% discount to its three-year average, and one-year forward P/E of 11x).

Cons.: Quarterly Earnings Model												(INR b)
Y/E March		FY	22			FY23			FY22	FY23	FY23E	Var
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q			4Q	%
Net Sales	85.2	105.7	113.0	158.6	108.2	125.1	136.8	165.7	462.4	535.8	168.4	- 2 %
YoY Change (%)	8.7	18.2	23.8	24.0	27.1	18.4	21.1	4.5	19.5	15.9	6.2	
Total Expenditure	66.5	85.2	86.3	122.7	84.8	97.4	106.5	135.5	360.8	424.2	129.8	
EBITDA	18.6	20.5	26.7	35.9	23.4	27.7	30.3	30.2	101.7	111.6	38.6	-22%
Margins (%)	21.9	19.4	23.6	22.6	21.7	22.1	22.2	18.2	22.0	20.8	22.9	
Depreciation	5.5	5.7	6.0	6.4	5.9	6.1	6.2	7.3	23.6	25.5	6.5	
Interest	6.1	3.6	5.3	8.0	5.2	6.4	8.9	9.1	23.0	29.6	6.5	
Other Income	0.5	0.5	0.7	1.2	0.7	0.8	1.2	2.1	2.8	4.8	0.7	
Exch. difference on trade rec./payable	0.9	1.1	2.2	2.1	2.0	3.2	1.5	2.9	6.4	9.6	0.0	
PBT before EO expense	6.6	10.5	13.9	20.5	11.1	12.7	14.8	13.0	51.6	51.6	26.3	
Extra-Ord expense	0.6	0.4	0.5	1.7	0.8	0.4	0.2	0.3	3.2	1.7	0.0	
PBT	6.0	10.1	13.3	18.9	10.3	12.3	14.6	12.7	48.3	49.9	26.3	
Tax	-1.5	2.5	1.7	2.7	0.6	2.3	1.4	3.1	5.3	7.4	4.3	
Rate (%)	-25.3	24.6	12.5	14.1	5.7	18.8	9.2	24.5	10.9	14.7	16.5	
MI & P/L of Asso. Cos.	0.8	1.3	2.3	2.4	1.0	1.8	2.4	1.7	6.8	6.9	2.5	
Reported PAT	6.8	6.3	9.4	13.8	8.8	8.1	10.9	7.9	36.3	35.7	19.4	
Adj PAT	10.2	7.5	12.0	18.9	10.4	10.5	13.4	10.5	48.5	44.7	19.4	-46%
YoY Change (%)	50.4	12.0	28.1	58.7	2.9	40.3	11.1	-44.6	39.9	-7.8	2.9	
Margins (%)	11.9	7.1	10.7	11.9	9.7	8.4	9.8	6.3	10.5	8.4	11.5	

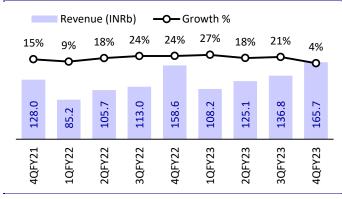
Note: Adjusted PAT = Reported PAT + forex adjustment + exceptional item

	_			
Kev	Perfo	rmanc	e Indica	ators

Y/E March		FY22				FY23				FY23
Consolidated	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q		
Sales Growth Split										
Volume (%)	6.0	15.0	11.0	3.0	6.0	-7.0	1.0	1.0	8.0	0.2
Price (%)	2.0	3.0	13.0	19.0	18.0	21.0	13.0	-3.0	10.0	10.0
Exchange Impact (%)	1.0	0.0	0.0	2.0	3.0	4.0	7.0	6.0	1.0	5.0
Cost Break-up										
RM Cost (% of sales)	43.5	49.4	45.6	50.4	43.1	46.2	48.4	59.3	47.7	50.2
Staff Cost (% of sales)	12.1	10.2	10.3	8.5	11.5	9.9	9.7	7.6	10.0	9.4
Other Cost (% of sales)	22.5	21.0	20.5	18.5	23.8	21.8	19.8	14.9	20.3	19.5
Gross Margins (%)	56.5	50.6	54.4	49.6	56.9	53.8	51.6	40.7	52.3	49.8
EBITDA Margins (%)	21.9	19.4	23.6	22.6	21.7	22.1	22.2	18.2	22.0	20.8
EBIT Margins (%)	15.4	14.0	18.3	18.6	16.2	17.3	17.6	13.8	16.9	16.1

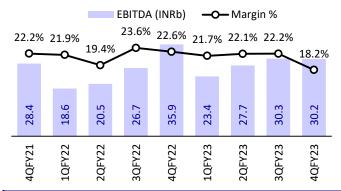
Key exhibits

Exhibit 1: Quarterly revenue trend



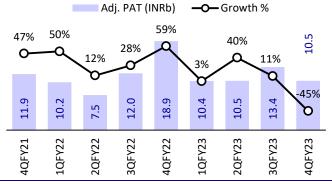
Source: Company, MOFSL

Exhibit 2: Quarterly EBITDA trend



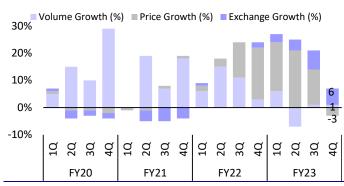
Source: Company, MOFSL

Exhibit 3: Quarterly adjusted PAT trend



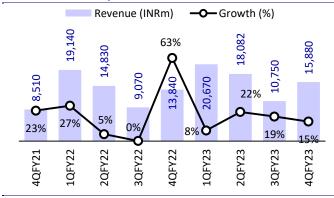
Source: Company, MOFSL

Exhibit 4: Quarterly and annual growth breakup



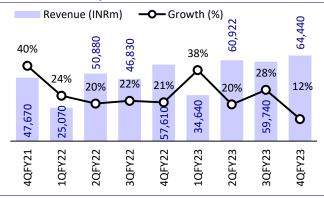
Source: Company, MOFSL

Exhibit 5: Quarterly revenue trend - India



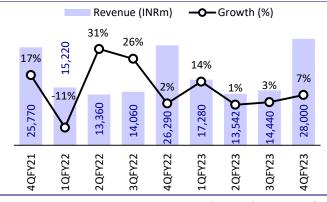
Source: Company, MOFSL

Exhibit 6: Quarterly revenue trend - LATAM



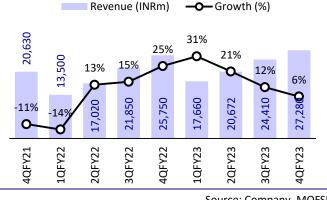
Source: Company, MOFSL

Exhibit 7: Quarterly revenue trend - Europe



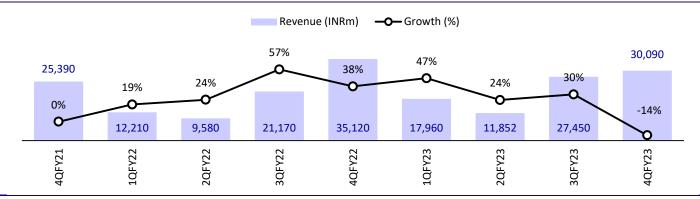
Source: Company, MOFSL

Exhibit 8: Quarterly revenue trend - RoW



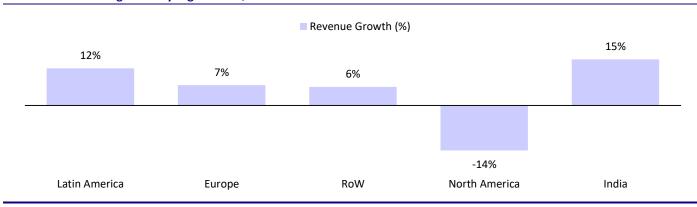
Source: Company, MOFSL

Exhibit 9: Quarterly revenue trend - North America



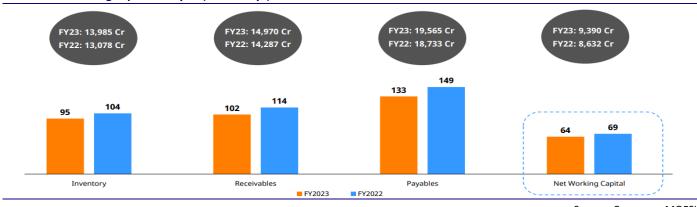
Source: Company, MOFSL

Exhibit 10: Revenue growth by region in 4QFY23



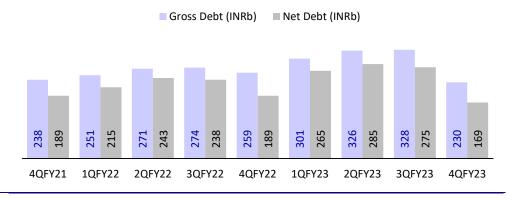
Source: Company, MOFSL

Exhibit 11: Working capital analysis (no. of days)



Source: Company, MOFSL

Exhibit 12: Gross and net debt trends (excluding perpetual bond of INR29.86b)



Source: Company, MOFSL

4



Highlights from the conference call

UPL Corporation

- Revenue grew 4% YoY (+1% volume; -3% price, +6% FX). Sales innovation accounted for ~14% of sales in FY23.
- Differentiated & sustainable portfolio grew 12% YoY in FY23, led by growth in volumes. The company is on the path to achieve 50% of the revenue from differentiated portfolio by FY27 v/s 28% in FY23.
- UPLL has launched Feroce (insecticide) and Evolution (fungicide) during the year, which has contributed to ~INR4.0b/INR7.1b of revenue in FY23.
- Management expects the momentum of new blockbuster product launches to continue in FY24.
- Contribution margin was lower by ~660bp as compared to last year due to rapid decline in post-patent prices and clearance of higher-cost inventory (~INR3-3.5b).
- Conscious decision was taken to conserve cash and improve working capital, resulting in idle capacity cost (~INR2-2.5b) during the quarter.
- The company has strong pipeline with risk-adjusted peak sales of ~USD8.5b. Peak pipeline value grew ~16% YoY. Differentiated and Sustainable solution formed 78% of the pipeline while balance is Post Patent Solutions
- UPL Corporation has much improved inventory position than its peers due to its strategic decisions.

UPL SAS

- UPL SAS has a highly penetrated pan-India presence. Herbicide segment is the biggest segment with ~36% revenue share.
- The company has ~600 Unimarts (experience store) and ~340 business partners. UPL SAS is covering ~90% of farmers and ~90% of geographical locations in India
- 'Nuture.farm' offers agri services to the farmers and is currently servicing ~3m farmers across India. Company also has a retail variant of 'Nuture.farm' with ~9,000 SKUs and 85,000+ retailers.
- Management plans to reduce the EBITDA loss by ~50% for Nuture platform by FY24 and then break even by FY25
- Sperto is the biggest selling product in Brazil and the company is launching it in India in the current year.
- Differentiated and sustainable solutions revenue share stood at 35% during FY23
- The company has a range of bio fertilizer, bio stimulant, silica based product, etc.

Advanta Enterprise

- Field Corn/Grain and Forage sorghum/Sunflower and canola accounted for ~45%/23%/14% of revenue share for FY23.
- Globally, sorghum covers ~45-50m hectares. Management expects sorghum land cover to increase to ~70m hectares going ahead as it required significantly less water than other crops.
- The company witnessed strong traction in Grain Sorghum in Argentina, Australia and the US driven by proprietary technologies 'Igrowth' and 'Aphix'

- Accordingly, it has been able to increase its market share in sorghum crops of Argentina to ~67% from ~14-15% four years ago
- The company is working on various R&D products such as increasing the protein content of the Sorghum
- It has presence in ~84 countries, out of which ~15-20 are key countries. It has capability to increase its presence in other countries as well.
- Vegetable and fresh corn segment is muted across the world. The company expects the acreages to come back in a years' time.
- UPL is partnering with the Middle East for doing R&D in growing agriculture in that region.
- The company has decided to go from B2B to B2C model as B2B distribution model has max out its efficiency. It started with the new model from Indonesia.

Specialty chemical and manufacturing

- The company supplies chemicals to 600+ external B2B clients (~15% of platform revenue) including large MNC and domestic companies operating in high-growth sectors (Agchem, Pharma, Paints, etc.)
- Major Chemistries include Grignard Reaction, Nitration, Phosphorus and Sulphur Derivatives, Chlorination, Hydrogenation, Phosgenation, Cynatio, etc.
- Going forward, the company is looking to enter new chemistries and expand capacities for existing molecules.
- The company is looking to enter into more external B2B collaborations
- The company has completed baseline audit for all its warehouses and has appointed consultant for safety aspects.
- It has commenced tracking scope 3 emissions and has targeted to reduce it by ~42% per ton of production by FY35

Geographical performance

- LATAM: Revenue grew 13% YoY during the quarter, driven by strong growth in the volumes of insecticide segment. Growth in Brazil was driven by volume growth in products such as 'Perito', 'Feroce' and 'Evolution'.
- **Europe:** Revenue grew 7% YoY despite the unfavorable weather and macroeconomic challenges in the region. Volume was flat on YoY basis despite the product ban (Mancozeb) in the region.
- India: Revenue grew 16% YoY during the quarter, led by herbicides and bio solutions segment. Herbicides such as 'Sweep power' and 'Ferio' led the growth during the quarter.
- **North America:** Revenue declined ~13% YoY during the quarter on account of rapid decline in glufosinate prices. Low on-ground movement due to delayed spring hit the herbicides and insecticides segments in the region.
- **RoW:** Revenue grew 8% YoY aided by growth in the herbicide segment. However, the same was partially offset by the insecticide segment.

Guidance

 Management has guided for revenue/EBITDA growth of 6-10%/8-12% for FY24 on group level; while ROCE is expected to increase by ~125-175bp

■ **UPL Corporation** has guided for revenue/EBITDA growth of 4-8%/6-10% for FY24. It has long-term ambition to grow its revenue by ~7-10% p.a. and aims to achieve over 50% of revenues from high-margin differentiated and sustainable solutions by FY27.

- UPL SAS has guided for revenue/EBITDA growth of 12-16%/14-18% for FY24. It expects to increase its reach to ~5m farmers/120,000 retailers and 800+ experience centers.
- Advanta Enterprise has guided for revenue/EBITDA growth of 11-15%/14-18% for FY24
- **Specialty Chemicals manufacturing** revenue/EBITDA is expected to grow at 10-14%/12-16% for FY24.

Working Capital and Debt

- The company's focus on expediting cash collections and better inventory management drove lower inventory (~95 days v/s 104 days LY) & receivable days (~102 days v/s 114 days LY).
- Accordingly, its net working capital days reduced to ~64 in FY23 from ~69 in FY22.
- The company has sold receivables of ~INR115b as of Mar'23 v/s INR121b as of Mar'22.
- As on FY23, gross debt stood at INR230b while net debt stood at INR169b. UPLL
 has cumulatively reduced net debt by ~INR96b and has returned over ~INR40b
 of cash to shareholders over FY19-23.
- The company is comfortable with the Net debt: EBITDA guidance of 1.5x but will strive for 1x going ahead.

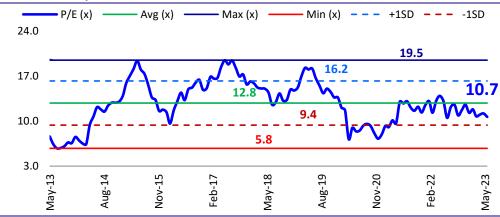
Other highlights

- Currently, China has an overcapacity. These capacities came online after the pandemic-related restrictions were lifted. Further, China is trying to liquidate certain AI. Therefore, management expects a challenging 1QFY24 due to continuing pricing intensity.
- Management has guided for USD350m capex in FY24 with ~USD160m for specialty chemical and manufacturing division, ~USD20m for Advanta and rest for intangibles for the crop protection global business.
- UPLL's EBITDA grew 10% YoY during FY23 against guidance of ~15-18% due to subdued profitability in 4QFY23. Accordingly, ROCE came in at ~15.3% (down 30bp YoY) v/s guidance of ~17-17.5%.
- The company has robust R&D pipeline focused on delivering its 2027 target, by leveraging its Best-in-Class technology. UPLL's OpenAg makes it efficient in bringing new Als, technologies and concepts to market
- Management aims to grow faster than the market in Bio solutions for the next five years with 14 new molecules in the development pipeline (Bio solutions is expected to register over 11% CAGR in FY22-27)
- Going ahead, the company expect to grow at faster pace in LATAM and Africa as compared to mature markets like North America and Europe,

Valuation and view

- Post re-opening of China, global agrochemical inventory level in channel surged thereby driving the prices lower for UPLL's key post-patented molecule.
- Considering the short-term challenges, the cash flow generation and debt repayments remain the key monitorables.
- We expect a revenue/EBITDA/Adj. PAT CAGR of 5%/6%/10% over FY23-25.
- Factoring in UPLL's weak 4QFY23 performance, we cut our FY24E/FY25E earnings by 13%/9%. We reiterate our Neutral rating with a TP of INR750 (premised on 10x FY25 P/E; ~10% discount to its three-year average, and one-year forward P/E of 11x).

Exhibit 13: One year forward P/E



Source: MOFSL

Exhibit 14: Changes to our estimates

Particulars	Old		No	ew	Change		
(INR b)	FY24E	FY25E	FY24E	FY25E	FY24E	FY25E	
Revenue	583	621	580	618	-1%	-1%	
EBITDA	130	139	122	132	-6%	-5%	
Adj. PAT	57	65	50	59	-13%	-9%	

Source: MOFSL

Financials and valuations

V/E Manch PYA PSA 00 10 10 20 20 30 30 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20	Consolidated - Income Statement									(INR b)
Change (%)	Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
BBITDA 19.8 20.2 20.8 20.8 22.3 22.0 20.8 21.0 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2 21.2	Total Income from Operations	163	174	218	358	387	462	536	580	618
Margin (%)	Change (%)	16.1	6.5	25.7	63.7	8.2	19.5	15.9	8.3	6.6
Depreciation	EBITDA	32	35	46	74	86	102	112	122	132
EBIT 26 28 37 54 65 78 86 93 101 Int. and Finance Charges 7 8 10 15 21 23 30 27 22 Cher Income 4 4 2 1 3 3 5 3 3 Exchange diff on trade rec. & payables 2 0 3 3 2 6 10 0 0 DET bef. EO Exp. 20 25 27 37 45 52 26 82 EO Hem 1 1 9 10 3 3 2 0 0 DET after EO Exp. 19 24 18 28 41 48 50 69 82 EO Hem 2 2 2 2 6 7 5 7 12 15 Tax Rate (%) 9.7 11.5 11.3 21.2 16.6 10.9 14.7 17.0 18.0 Tax Rate (%) 9.7 11.5 11.3 21.2 16.6 10.9 14.7 17.0 18.0 Tax Rate (%) 9.7 11.5 11.3 21.2 16.6 10.9 14.7 17.0 18.0 Tax Rate (%) 9.7 11.5 11.3 21.2 16.6 10.9 14.7 17.0 18.0 Tax Rate (%) 9.7 11.5 11.3 21.2 16.6 10.9 14.7 17.0 18.0 Tax Rate (%) 9.7 11.5 11.3 21.2 16.6 10.9 14.7 17.0 18.0 Share of (profit)/loss of ass. & IV 0 1 0 0 0 0 0 0 0 0	Margin (%)	19.8	20.2	20.8	20.8	22.3	22.0	20.8	21.0	21.3
Int. and Finance Charges	Depreciation	7	7	9	20	22	24	25	28	31
Other Income 4 4 2 1 3 3 5 3 3 Exchange diff on trade rec. & payables 2 0 3 3 3 2 5 10 0 0 PBT Effe CD Exp. 20 25 27 37 45 52 52 50 0 0 PBT affer EO Exp. 19 24 18 28 41 48 50 69 82 Total Tax 2 3 2 6 7 5 7 12 15 Tax Rate (%) 97 11.5 11.3 21.2 16 19 17 17 18 Prior Period Items - Income / (Expenses) - Net 0 0 1 1 6 0 1 1 6 18 8 9 10 Share (Ignofit)/Joss of ass & IV 0 0 1 4 6 8 8 9 10 Reported PAT	EBIT	26	28	37	54	65	78	86	93	101
Exchange diff on trade rec. & payables 2	Int. and Finance Charges	7	8	10	15	21	23	30	27	22
PRT bef. EO Exp. 20 25 27 37 45 52 52 69 82 EO I terms 1 1 9 10 3 3 2 0 0 PST after EO Exp. 19 24 18 28 41 48 50 69 82 Total Tax 2 3 2 6 7 5 7 12 15 Tax Rate (%) 97 11.5 11.3 21.2 16.6 10 14.7 0 10 0 0 17.7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 </td <td>Other Income</td> <td>4</td> <td>4</td> <td>2</td> <td>1</td> <td>3</td> <td>3</td> <td>5</td> <td>3</td> <td>3</td>	Other Income	4	4	2	1	3	3	5	3	3
EO Items	Exchange diff on trade rec. & payables	2	0	3	3	2	6	10	0	0
PBT after EO Exp. 19 24 18 28 41 48 50 69 82 Total Tax 2 3 2 6 7 5 7 12 15 Tax Rate (%) 9.7 11.5 11.3 21.2 16.6 10.9 1.7 10 18.0 Prior Period Items - Income / (Expenses) - Net 0 0 0 0 1.2 2.2 2.2 Minority Interest 0 0 0 1.2 4 6 8 8 9 10 Reported PAT 17 20 15 18 29 36 36 50 59 Adjusted PAT 21 22 25 27 35 49 45 50 59 Change (%) 57.7 6.2 11.2 8.4 29.9 30 10.5 8.4 8.6 9.5 Change (%) 57.7 6.2 11.2 11.2 27 21 <td>PBT bef. EO Exp.</td> <td>20</td> <td>25</td> <td>27</td> <td>37</td> <td>45</td> <td>52</td> <td>52</td> <td>69</td> <td>82</td>	PBT bef. EO Exp.	20	25	27	37	45	52	52	69	82
Total Tax	EO Items	1	1	9	10	3	3	2	0	0
Tax Rate (%) 9.7 11.5 11.3 21.2 16.6 10.9 14.7 17.0 18.0 Prior Period Items - Income / (Expenses) - Net 0 0 0 0 0 0 0 0 0	PBT after EO Exp.	19	24	18	28	41	48	50	69	82
Prior Period Items - Income / (Expenses) - Net 0	Total Tax	2	3	2	6	7	5	7	12	15
Share of (profit)/loss of ass. & JV 0 1 0 0 0 1 1 2 2 2 2 Minority Interest 0 0 1 4 6 8 8 9 10 10 10 10 10 10 10	Tax Rate (%)	9.7	11.5	11.3	21.2	16.6	10.9	14.7	17.0	18.0
Minority Interest 0	Prior Period Items - Income / (Expenses) - Net	0	0	0	0	0	0	0	0	0
Reported PAT 17 20 15 18 29 36 36 50 59 Adjusted PAT 21 22 25 27 35 49 45 50 59 Change (%) 57,7 6,2 11,2 8,4 29,9 39,9 -7,8 11,4 18,0 Margin (%) 12,8 12,8 11,3 7,5 9,0 10,5 8,4 8,6 9,5 Consolidated - Balance Sheet	Share of (profit)/loss of ass. & JV	0	1	0	0	0	-1	-2	-2	-2
Adjusted PAT 21 22 25 27 35 49 45 50 59 Change (%) 57.7 6.2 11.2 8.4 29.9 39.9 7.8 11.4 18.0 Margin (%) 12.8 12.8 11.3 7.5 9.0 10.5 8.4 8.9 Consolidated - Balance Sheet " (INR b) Y/E March F117 FY18 FY19 FY20 FY21 FY22 FY23 FY24E FY25E Equity Share Capital 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Minority Interest	0	0	1	4	6	8	8	9	10
Change (%) 57.7 6.2 11.2 8.4 29.9 39.9 -7.8 11.4 18.0 Margin (%) 12.8 12.8 11.3 7.5 9.0 10.5 8.4 8.6 9.5 Consolidated - Balance Sheet FY17 FY18 FY19 FY20 FY21 FY22 FY23 FY24E FY25E Equity Share Capital 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Reported PAT	17	20	15	18	29	36	36	50	59
Margin (%) 12.8 12.8 11.3 7.5 9.0 10.5 8.4 8.6 9.5	Adjusted PAT	21	22	25	27	35	49	45	50	59
Consolidated - Balance Sheet FV17 FV18 FV19 FV20 FV21 FV22 FV23 FV24 FV25 FV25	Change (%)	57.7	6.2	11.2	8.4	29.9	39.9	-7.8	11.4	18.0
Y/E March FY17 FY18 FY19 FY20 FY21 FY22 FY23 FY24E FY25E Equity Share Capital 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Margin (%)	12.8	12.8	11.3	7.5	9.0	10.5	8.4	8.6	9.5
Equity Share Capital 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 7 46 56 327 375 Net Worth 74 92 147 163 179 217 269 328 376 Net Worth 74 92 147 163 179 217 269 328 375 Net Worth 74 92 147 163 179 217 269 328 375 Net Minority Interest 0 0 35 33 37 46 56 65 75 75 74 22 28 238 259 230 205 155 155 164 266 291 318 268 289 260 235 185 165 165 175 25 25 25 25 25 25	Consolidated - Balance Sheet									(INR b)
Total Reserves 72 91 146 161 177 215 267 327 375 Net Worth 74 92 147 163 179 217 269 328 376 Minority Interest 0	Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Net Worth 74 92 147 163 179 217 269 328 376 Minority Interest 0 0 35 33 37 46 56 65 75 Total Loans 64 66 291 288 238 259 230 205 155 Perpetual bonds 0 0 0 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30	Equity Share Capital	1	1	1	2	2	2	2	2	2
Minority Interest 0 0 35 33 37 46 56 65 75 Total Loans 64 66 291 288 238 259 230 205 155 Perpetual bonds 0 0 0 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 <td></td> <td>72</td> <td>91</td> <td>146</td> <td>161</td> <td>177</td> <td>215</td> <td>267</td> <td>327</td> <td>375</td>		72	91	146	161	177	215	267	327	375
Total Loans 64 66 291 288 238 259 230 205 155 Perpetual bonds 0 0 0 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 <t< td=""><td>Net Worth</td><td>74</td><td>92</td><td>147</td><td>163</td><td>179</td><td>217</td><td>269</td><td>328</td><td>376</td></t<>	Net Worth	74	92	147	163	179	217	269	328	376
Perpetual bonds 0 0 0 30 30 30 30 30	Minority Interest	0	0	35	33	37	46	56	65	75
Total Loans (Including Perpetual bond) 64 66 291 318 268 289 260 235 185 Deferred Tax Liabilities -5 -4 22 28 27 25 25 25 25 Capital Employed 133 154 495 542 510 576 609 653 661 Gross Block 96 106 230 260 281 311 345 382 412 Less: Accum. Deprn. 60 66 75 95 117 141 166 194 225 Net Fixed Assets 37 40 155 164 164 170 179 188 187 Roodwill on Consolidation 4 4 166 182 177 184 199 199 199 199 199 199 199 160 16 182 177 184 199 19 19 16 16 16 16 16 </td <td>Total Loans</td> <td>64</td> <td>66</td> <td>291</td> <td>288</td> <td>238</td> <td>259</td> <td>230</td> <td>205</td> <td>155</td>	Total Loans	64	66	291	288	238	259	230	205	155
Deferred Tax Liabilities -5 -4 22 28 27 25 25 25 Capital Employed 133 154 495 542 510 576 609 653 661 Gross Block 96 106 230 260 281 311 345 382 412 Less: Accum. Deprn. 60 66 75 95 117 141 166 194 225 Net Fixed Assets 37 40 155 164 164 170 179 188 187 Goodwill on Consolidation 4 4 166 182 177 184 199 199 199 Capital WIP 8 13 19 21 21 25 28 20 18 Total Investments 4 10 7 6 6 19 16 16 16 Curr. Assets, Loans&Adv. 145 157 285 328 337	Perpetual bonds	0	0	0	30	30	30	30	30	30
Capital Employed 133 154 495 542 510 576 609 653 661 Gross Block 96 106 230 260 281 311 345 382 412 Less: Accum. Deprn. 60 66 75 95 117 141 166 194 225 Net Fixed Assets 37 40 155 164 164 170 179 188 187 Goodwill on Consolidation 4 4 166 182 177 184 199 199 199 Capital WiP 8 13 19 21 21 25 28 20 18 Total Investments 4 10 7 6 6 19 16 16 16 Curr. Assets, Loans&Adv. 145 157 285 328 337 429 463 522 546 Inventory 42 45 91 79 94<	Total Loans (Including Perpetual bond)	64	66	291	318	268	289	260	235	185
Gross Block 96 106 230 260 281 311 345 382 412 Less: Accum. Deprn. 60 66 75 95 117 141 166 194 225 Net Fixed Assets 37 40 155 164 164 170 179 188 187 Goodwill on Consolidation 4 4 166 182 177 184 199 199 199 199 Capital WIP 8 13 19 21 21 25 28 20 18 Total Investments 4 10 7 6 6 19 16 16 16 Curr. Assets, Loans&Adv. 145 157 285 328 337 429 463 522 546 Inventory 42 45 91 79 94 131 140 159 166 Account Receivables 57 61 117 119	Deferred Tax Liabilities	-5	-4	22	28	27	25	25	25	25
Less: Accum. Deprn. 60 66 75 95 117 141 166 194 225 Net Fixed Assets 37 40 155 164 164 170 179 188 187 Goodwill on Consolidation 4 4 166 182 177 184 199 199 199 Capital WIP 8 13 19 21 21 25 28 20 18 Total Investments 4 10 7 6 6 19 16 16 16 Curr. Assets, Loans&Adv. 145 157 285 328 337 429 463 522 546 Inventory 42 45 91 79 94 131 140 159 166 Account Receivables 57 61 117 119 126 153 183 197 208 Cash and Bank Balance 29 29 29 68	Capital Employed	133	154	495	542	510	576	609	653	661
Net Fixed Assets 37 40 155 164 164 170 179 188 187 Goodwill on Consolidation 4 4 166 182 177 184 199 199 199 Capital WIP 8 13 19 21 21 25 28 20 18 Total Investments 4 10 7 6 6 19 16 16 16 Curr. Assets, Loans&Adv. 145 157 285 328 337 429 463 522 546 Inventory 42 45 91 79 94 131 140 159 166 Account Receivables 57 61 117 119 126 153 183 197 208 Cash and Bank Balance 29 29 29 68 49 61 61 74 74 Loans and Advances 18 22 48 63 68	Gross Block	96	106	230	260	281	311	345	382	412
Goodwill on Consolidation 4 4 166 182 177 184 199 199 199 Capital WIP 8 13 19 21 21 25 28 20 18 Total Investments 4 10 7 6 6 19 16 16 16 Curr. Assets, Loans&Adv. 145 157 285 328 337 429 463 522 546 Inventory 42 45 91 79 94 131 140 159 166 Account Receivables 57 61 117 119 126 153 183 197 208 Cash and Bank Balance 29 29 29 68 49 61 61 74 74 Loans and Advances 18 22 48 63 68 83 80 92 98 Curr. Liability & Prov. 64 71 137 159	Less: Accum. Deprn.	60	66	75	95	117	141	166	194	225
Capital WIP 8 13 19 21 21 25 28 20 18 Total Investments 4 10 7 6 6 19 16 16 16 Curr. Assets, Loans&Adv. 145 157 285 328 337 429 463 522 546 Inventory 42 45 91 79 94 131 140 159 166 Account Receivables 57 61 117 119 126 153 183 197 208 Cash and Bank Balance 29 29 29 68 49 61 61 74 74 Loans and Advances 18 22 48 63 68 83 80 92 98 Curr. Liability & Prov. 64 71 137 159 194 250 277 292 305 Account Payables 49 57 94 102 125	Net Fixed Assets	37	40	155	164	164	170	179	188	187
Total Investments 4 10 7 6 6 19 16 16 16 Curr. Assets, Loans&Adv. 145 157 285 328 337 429 463 522 546 Inventory 42 45 91 79 94 131 140 159 166 Account Receivables 57 61 117 119 126 153 183 197 208 Cash and Bank Balance 29 29 29 68 49 61 61 74 74 Loans and Advances 18 22 48 63 68 83 80 92 98 Curr. Liability & Prov. 64 71 137 159 194 250 277 292 305 Account Payables 49 57 94 102 125 166 176 191 199 Other Current Liabilities 14 13 34 55	Goodwill on Consolidation	4	4	166	182	177	184	199	199	199
Curr. Assets, Loans&Adv. 145 157 285 328 337 429 463 522 546 Inventory 42 45 91 79 94 131 140 159 166 Account Receivables 57 61 117 119 126 153 183 197 208 Cash and Bank Balance 29 29 29 68 49 61 61 74 74 Loans and Advances 18 22 48 63 68 83 80 92 98 Curr. Liability & Prov. 64 71 137 159 194 250 277 292 305 Account Payables 49 57 94 102 125 166 176 191 199 Other Current Liabilities 14 13 34 55 60 77 94 94 98 Provisions 1 1 9 1	Capital WIP	8	13	19	21	21	25	28	20	18
Inventory 42 45 91 79 94 131 140 159 166 Account Receivables 57 61 117 119 126 153 183 197 208 Cash and Bank Balance 29 29 29 68 49 61 61 74 74 Loans and Advances 18 22 48 63 68 83 80 92 98 Curr. Liability & Prov. 64 71 137 159 194 250 277 292 305 Account Payables 49 57 94 102 125 166 176 191 199 Other Current Liabilities 14 13 34 55 60 77 94 94 98 Provisions 1 1 9 1 9 8 7 8 8 Net Current Assets 80 86 148 169 142	Total Investments	4	10	7	6	6	19	16	16	16
Account Receivables 57 61 117 119 126 153 183 197 208 Cash and Bank Balance 29 29 29 68 49 61 61 74 74 Loans and Advances 18 22 48 63 68 83 80 92 98 Curr. Liability & Prov. 64 71 137 159 194 250 277 292 305 Account Payables 49 57 94 102 125 166 176 191 199 Other Current Liabilities 14 13 34 55 60 77 94 94 98 Provisions 1 1 9 1 9 8 7 8 8 Net Current Assets 80 86 148 169 142 178 186 230 241	Curr. Assets, Loans&Adv.	145	157	285	328	337	429	463	522	546
Cash and Bank Balance 29 29 29 29 68 49 61 61 74 74 Loans and Advances 18 22 48 63 68 83 80 92 98 Curr. Liability & Prov. 64 71 137 159 194 250 277 292 305 Account Payables 49 57 94 102 125 166 176 191 199 Other Current Liabilities 14 13 34 55 60 77 94 94 98 Provisions 1 1 9 1 9 8 7 8 8 Net Current Assets 80 86 148 169 142 178 186 230 241	Inventory	42	45	91	79	94	131	140	159	166
Loans and Advances 18 22 48 63 68 83 80 92 98 Curr. Liability & Prov. 64 71 137 159 194 250 277 292 305 Account Payables 49 57 94 102 125 166 176 191 199 Other Current Liabilities 14 13 34 55 60 77 94 94 98 Provisions 1 1 9 1 9 8 7 8 8 Net Current Assets 80 86 148 169 142 178 186 230 241	Account Receivables	57	61	117	119	126	153	183	197	208
Curr. Liability & Prov. 64 71 137 159 194 250 277 292 305 Account Payables 49 57 94 102 125 166 176 191 199 Other Current Liabilities 14 13 34 55 60 77 94 94 98 Provisions 1 1 9 1 9 8 7 8 8 Net Current Assets 80 86 148 169 142 178 186 230 241	Cash and Bank Balance	29	29	29	68	49	61	61	74	74
Account Payables 49 57 94 102 125 166 176 191 199 Other Current Liabilities 14 13 34 55 60 77 94 94 98 Provisions 1 1 9 1 9 8 7 8 8 Net Current Assets 80 86 148 169 142 178 186 230 241	Loans and Advances	18	22	48	63	68	83	80	92	98
Other Current Liabilities 14 13 34 55 60 77 94 94 98 Provisions 1 1 9 1 9 8 7 8 8 Net Current Assets 80 86 148 169 142 178 186 230 241	Curr. Liability & Prov.	64	71	137	159	194	250	277	292	305
Provisions 1 1 9 1 9 8 7 8 8 Net Current Assets 80 86 148 169 142 178 186 230 241	Account Payables	49	57	94	102	125	166	176	191	199
Provisions 1 1 9 1 9 8 7 8 8 Net Current Assets 80 86 148 169 142 178 186 230 241	Other Current Liabilities	14		34	55		77	94	94	98
	Provisions		1	9			8	7		
	Net Current Assets	80		148	169		178	186		241
	Appl. of Funds	133	154		542	510		609	653	661

MOTILAL OSWAL

Financials and valuations

Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
Basic (INR)									
EPS	27.3	29.0	32.2	34.9	45.4	63.5	58.5	65.1	76.9
Cash EPS	36.1	37.8	43.7	61.2	73.8	142.8	139.0	154.8	177.8
BV/Share	96.7	119.9	192.4	213.0	234.0	429.2	531.8	650.2	745.4
DPS	7.0	5.3	5.3	6.0	10.0	10.0	10.0	14.0	14.0
Payout (%)	31.0	20.0	27.1	25.8	26.6	21.1	21.4	21.5	18.2
Valuation (x)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P/E	26.2	24.7	22.2	20.5	15.8	11.3	12.2	11.0	9.3
Cash P/E	19.8	18.9	16.3	11.7	9.7	5.0	5.1	4.6	4.0
P/BV	7.4	6.0	3.7	3.4	3.1	1.7	1.3	1.1	1.0
EV/Sales	3.6	3.4	3.7	2.2	2.0	1.7	1.4	1.2	1.1
EV/EBITDA	18.0	16.6	17.8	10.7	8.9	7.6	6.7	5.8	5.0
Dividend Yield (%)	1.0	0.7	0.7	0.8	1.4	1.4	1.4	2.0	2.0
FCF per share	24.1	19.2	-350.0	88.9	67.3	31.7	32.4	72.8	108.0
Return Ratios (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RoE	31.4	26.8	20.6	17.2	20.3	24.5	18.4	16.7	16.7
RoCE	21.7	19.5	11.6	9.5	12.1	15.1	15.0	14.7	15.1
RoIC	25.7	26.1	12.0	9.6	12.2	15.4	15.1	14.8	15.1
Working Capital Ratios	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fixed Asset Turnover (x)	1.7	1.6	0.9	1.4	1.4	1.5	1.6	1.5	1.5
Inventory (Days)	194	204	319	156	180	216	190	200	200
Debtor (Days)	127	127	195	121	119	121	125	124	123
Creditor (Days)	228	255	329	203	239	274	239	240	240
Leverage Ratio (x)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net Debt (incl perpetual bonds)/Equity	0.5	0.4	1.8	1.5	1.2	1.0	0.7	0.5	0.3

Consolidated - Cash Flow Statement									(INR b)
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24E	FY25E
OP/(Loss) before Tax	20	25	27	28	42	50	52	69	82
Depreciation	7	7	9	20	22	24	25	28	31
Interest & Finance Charges	6	8	10	15	21	23	30	27	22
Direct Taxes Paid	-4	-3	-2	-8	-7	-10	-13	-12	-15
(Inc)/Dec in WC	-1	-5	-10	31	-2	-18	-14	-30	-11
CF from Operations	28	31	32	85	75	68	81	83	109
Others	-1	-1	-9	3	-3	-4	-3	2	2
CF from Operating incl EO	27	30	24	87	72	65	78	85	111
(Inc)/Dec in FA	-8	-16	-291	-19	-21	-41	-53	-29	-28
Free Cash Flow	18	15	-268	68	51	24	25	56	83
(Pur)/Sale of Investments	0	-7	3	2	0	-13	3	0	0
Others	-2	3	-21	-9	0	16	35	21	0
CF from Investments	-10	-19	-309	-26	-21	-38	-15	-8	-28
Issue of Shares	0	-1	0	0	0	0	0	0	0
Inc/(Dec) in Debt	11	3	225	-29	-42	13	-46	-25	-50
Interest Paid	-8	-8	-10	-16	-17	-19	-23	-27	-22
Dividend Paid	-2	-4	-4	-5	-5	-8	-8	-11	-11
Others	0	-1	74	28	-4	-5	15	0	0
CF from Fin. Activity	1	-11	285	-22	-67	-19	-62	-63	-83
Inc/Dec of Cash	17	0	0	39	-19	10	2	13	0
Opening Balance	12	29	29	29	68	51	59	61	74
Closing Balance	29	29	29	68	49	61	61	74	74

Investment in securities market are subject to market risks. Read all the related documents carefully before investing

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 be 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, Depository participant services & distribution of various financial products. 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

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 galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx

A graph of daily closing prices of securities is available at www.nseindia.com, www.nseindi 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.

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

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company at the end of the month immediately preceding the date of publication of the Research Report or date of the public appearance.
- received compensation/other benefits from the subject company in the past 12 months
- 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.
- 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.
- Served subject company as its clients during twelve months preceding the date of distribution of the research report.

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.

Investment in securities market are subject to market risks. Read all the related documents carefully before investing.

Registration granted by SEBI and certification from NISM in no way guarantee performance of the intermediary or provide any assurance of returns to investors. Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022 - 71934200 / 71934263; www.motilaloswal.com. Correspondence Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad (West), Mumbai-400 064. Tel No: 022 71881000. Details of Compliance Officer: Neeraj Agarwal, Email Id: na@motilaloswal.com, Contact No::022-40548085. Grievance Redressal Cell:

Contact Person	Contact No.	Email ID
Ms. Hemangi Date	022 40548000 / 022 67490600	query@motilaloswal.com
Ms. Kumud Upadhyay	022 40548082	servicehead@motilaloswal.com
Mr. Ajay Menon	022 40548083	am@motilaloswal.com

Registration details of group entities.: Motilal Oswal Financial Services Ltd. (MOFSL): INZ000158836 (BSE/NSE/MCX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412. AMFI: ARN .: 146822. IRDA Corporate Agent – CA0579. Motilal Oswal Financial Services Ltd. is a distributor of Mutual Funds, PMS, Fixed Deposit, Insurance, Bond, NCDs and IPO products.

Customer having any query/feedback/ clarification may write to query@motilaloswal.com. In case of grievances for any of the services rendered by Motilal Oswal Financial Services Limited (MOFSL) write to grievances@motilaloswal.com, for DP to dpgrievances@motilaloswal.com.