

Tube Investments of India

Estimate changes	1
TP change	←
Rating change	←→

Bloomberg	TIINDIA IN
Equity Shares (m)	193
M.Cap.(INRb)/(USDb)	515.1 / 6.2
52-Week Range (INR)	3046 / 1440
1, 6, 12 Rel. Per (%)	-1/14/47
12M Avg Val (INR M)	938

Consol. Financials & Valuations (INR b)

FY23E	FY24E	FY25E
151.4	173.9	200.7
19.9	23.3	28.1
12.9	15.8	19.6
66.8	82.1	101.8
32.2	23.0	24.0
204	260	331
0.2	0.2	0.1
36.7	35.3	34.5
40.9	40.9	41.1
9.3	10.2	10.9
40.0	32.5	26.2
13.1	10.2	8.1
0.2	0.3	0.4
1.6	3.1	3.9
	151.4 19.9 12.9 66.8 32.2 204 0.2 36.7 40.9 9.3 40.0 13.1 0.2	151.4 173.9 19.9 23.3 12.9 15.8 66.8 82.1 32.2 23.0 204 260 0.2 0.2 36.7 35.3 40.9 40.9 9.3 10.2 40.0 32.5 13.1 10.2 0.2 0.3

Shareholding pattern (%)

As On	Dec-22	Sep-22	Dec-21
Promoter	46.4	46.5	46.5
DII	12.2	14.5	15.0
FII	28.8	26.3	26.1
Others	12.5	12.7	12.5

FII Includes depository receipts

CMP: INR2,668 TP: INR3,215 (+21%)

Buy

Result below estimate led by pressure in all businesses

EVs in three segments to see commercial launch in CY23E

- Tube Investments of India (TIINDIA)'s 3QFY23 performance was hit by tepid revenue growth across all businesses as well as operating deleverage that hurt margins. Traction in revenue is likely to revive, though, driven by recovery in the underlying auto volumes. However, exports might be subdued in the near term. Launches in the EV segment (3Ws, CVs and tractors) are lined-up over the next six months.
- We have raised our FY23E/FY24E EPS by 10%/5%, respectively, driven by upgrades in our estimates for CG Power despite downgrades in the S/A business by 8% each. Maintain BUY with a TP of INR3,215 (Dec-24E).

Margin contracts due to operating deleverage

- S/A business revenue/EBITDA/Adj. PAT was flat/+15%/+14% YoY at INR17.1b/INR2.1b/INR1.4b, respectively. The 9MFY23 revenue/EBITDA/ adj. PAT grew 20%/25%/27% YoY, respectively.
- Gross margin improved 3.5pp YoY (+10bp QoQ) to 36.9% during the quarter. EBITDA rose 15% YoY to INR2.1b (v/s est. INR2.5b). EBITDA margin improved 1.5pp YoY (-70bp QoQ) to 12.5% (v/s est. 12.8%). Sequential decline in margins was led by operating deleverage in 3QFY23 and benefit of cost pass through in 2Q.
- Adj. PAT grew 14% YoY (-14% QoQ) to INR1.4b (v/s est. INR1.6b).
- Mobility business revenue declined 38% YoY to INR1.74b, hit by severe pressure on cycle volumes. PBIT margin for this business was at 1.4% (v/s 5.5% in 3QFY22 and est. 4.5%), adversely impacted by losses in e-3W business. The company suffered a loss of INR390m on e-3Ws.
- Engineering business revenue rose 8.5% YoY to INR10.8b, impacted by cost pass through (5-7%) and weakness in exports. PBIT margin for the business was at 12.4% (v/s 8.8% in 3QFY22 and est. 13.0%).
- Metal Formed Product business' revenue grew 12% YoY to INR3.7b. Its PBIT margin stood at 11.4% (v/s 9.7% in 3QFY22 and est. 13.0%).
- Revenue from Others business vertical grew 4% YoY to INR1.7b. Its PBIT margin stood at 6.9% (v/s 6.6% in 3QFY22 and est. 4.5%).
- FCF during the quarter was at INR1.15b (v/s INR1.19b in 2QFY23 v/s INR1.7b in 3QFY22).
- Consol. business revenue/EBITDA/Adj. PAT was at +8%/+7%/-23% YoY to INR36.7b/INR4.7b/INR2.9b, respectively.
- The Board declared an interim dividend of INR2/share for FY23.

Highlights from the management commentary

 TIINDIA is undertaking a capacity expansion of 44% to 5,950MT/month at its large diameter precision steel tube plant with an estimated capex of INR1.4b. This capex could generate a revenue of INR4b.

Jinesh Gandhi – Research Analyst (Jinesh@MotilalOswal.com)

Research Analyst: Amber Shukla (Amber.Shukla@motilaloswal.com) | Aniket Desai (Aniket.Desai@MotilalOswal.com)

MOTILAL OSWAL Tube Investments of India

■ There is a slowdown in the US/EU export markets but there are initial signs of recovery as the stocks have started getting liquidated.

- Montra e-3Ws manufacturing would commence in Mar'23 and sales will start by Apr'23. There has been a delay in launch due to new battery safety standards introduced by the government. TIINDIA would be initially launching it in the southern states where it has appointed 42 dealers (the plan is to ramp it up to 75 dealers by the end of the year).
- The **Optics lens** business has received its first set of orders from Korean and Chinese customers. Its production will start from 4QFY23.

Valuation and view

- TIINDIA offers diversified revenue streams with strong growth in the core business (~31% S/A PAT CAGR over FY23E-25E), ramp-up in CG Power and optionality of new businesses incubated under TI-2 strategy.
- The stock trades at 32.5x/26.2x FY24E/FY25E consol. EPS. We maintain our **BUY** rating with a TP of ~INR3,215 (premised on Dec'24E SOTP; based on 35x for the standalone business and valuing listed subsidiaries at 20% HoldCo discount).

Quarterly performance (S/A)										(INR m)	
Y/E March		FY2	22			FY2	3E		FY22	FY23E	
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4QE			3QE
Net Sales	12,567	16,667	17,014	17,345	19,570	19,059	17,097	18,994	63,495	74,720	19,217
YoY Change (%)	231.8	53.3	29.9	17.2	55.7	14.4	0.5	9.5	49.2	17.7	12.9
RM Cost (% of sales)	61.5	65.0	66.6	66.3	68.0	63.2	63.1	-190.4	62.5	0.0	0.0
Staff Cost (% of sales)	9.4	7.7	7.4	7.7	7.0	7.6	8.2	-22.1	8.0	0.0	0.0
Other Expenses (% of sales)	16.6	15.7	15.0	15.9	14.6	16.0	16.2	0.0	15.8	87.7	0.0
Total Expenditure	10,991	14,738	15,150	15,602	17,530	16,547	14,953	-40,366	54,753	65,566	0
EBITDA	1,576	1,928	1,865	1,744	2,040	2,512	2,144	2,457	8,743	9,154	2,458
Margins (%)	12.5	11.6	11.0	10.1	10.4	13.2	12.5	12.9	13.8	12.3	12.8
Depreciation	354	360	369	367	325	346	337	343	1,450	1,351	355
Interest	30	29	38	22	36	52	60	59	118	207	32
Other Income	109	97	153	377	120	145	171	144	736	580	175
PBT before EO expense	1,302	1,637	1,611	1,731	1,800	2,258	1,919	2,200	7,911	8,176	2,246
Tax	332	423	406	368	457	599	542	570	1,472	2,167	580
Tax Rate (%)	25.5	25.8	25.2	21.2	25.4	29.6	28.2	25.9	18.6	27.3	25.8
Adj PAT	970	1,214	1,204	1,364	1,343	1,595	1,377	1,630	4,710	5,946	1,665
YoY Change (%)	-284.3	26.6	12.5	-2.1	38.5	31.4	14.3	19.6	62.6	26.2	38.3

Segmental Mix (INR m)

	FY22			FY23E FY22				FY23E			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4QE			3QE
Mobility business	1,723	2,623	2,802	2,485	2,456	2,261	1,737	1,916	9,633	8,370	2,241
Growth (%)	71.7	23.8	19.8	(17.3)	42.5	(13.8)	(38.0)	(22.9)	13.8	(13.1)	(20.0)
PBIT margin (%)	4.0	7.6	5.5	5.1	3.9	4.4	1.4	2.5	5.7	3.2	4.5
Contribution (%)	13.7	15.7	16.5	14.3	12.6	11.9	10.2	10.1	15.1	11.2	11.7
Engineering business	8,146	10,266	9,964	10,303	12,437	11,924	10,812	12,123	38,680	47,296	11,957
Growth (%)	397.1	81.6	35.9	20.6	52.7	16.1	8.5	17.7	67.0	22.3	20.0
PBIT margin (%)	10.2	10.0	8.8	10.0	9.5	13.8	12.4	12.8	9.7	12.1	13.0
Contribution (%)	64.8	61.6	58.5	59.4	63.5	62.6	63.2	63.8	60.8	63.3	62.2
Metal formed business	2,452	3,283	3,304	3,365	3,348	3,710	3,707	3,910	12,403	14,676	3,634
Growth (%)	152.6	15.2	5.0	0.3	36.6	13.0	12.2	16.2	20.2	18.3	10.0
PBIT margin (%)	10.7	11.9	9.7	11.5	11.5	12.9	11.4	11.6	11.0	11.9	13.0
Contribution (%)	19.5	19.7	19.4	19.4	17.1	19.5	21.7	20.6	19.5	19.6	18.9
Other business	879	1,192	1,601	1,944	2,226	1,879	1,662	1,854	5,624	7,621	2,082
Growth (%)	192.0	74.2	102.8	136.8	153.2	57.6	3.8	(4.6)	116.6	35.5	30.0
PBIT margin (%)	11.4	10.0	6.6	2.0	7.6	4.3	6.9	6.5	6.5	6.4	4.5
Contribution (%)	7.0	7.2	9.4	11.2	11.4	9.9	9.7	9.8	8.8	10.2	10.8
Total Revenue (post inter segment)	12,567	16,667	17,024	17,345	19,570	19,059	17,097	18,994	63,593	74,720	19,217
Growth (%)	231.8	53.3	29.9	17.2	55.7	14.4	0.4	9.5	49.3	17.5	12.9

E:MOFSL Estimates



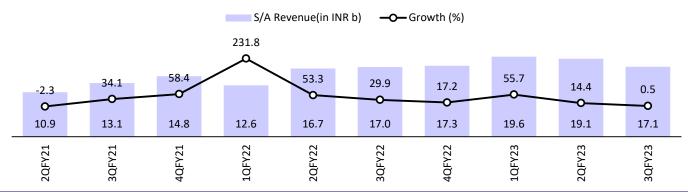
Highlights from the management commentary

- Engineering business volume growth was hit mainly by seasonality in demand due to 2Ws partly offset by growth in PVs/CVs. The company is undertaking capacity expansion at one of its factories near Chennai.
- Capacity for precision steel tube manufacturing plant would increase to
 5,950MT/month from 4,125MT/month with an estimated capex of INR1.4b.
- There is a slowdown in the US/EU export markets but there are initial signs of recovery as the stocks have started getting liquidated.
- Metal Formed business: TIINDIA has been actively participating in railway tenders but there is a delay in getting the contracts. Industrial chain business is seeing slowdown in the EU while other geographies including domestic markets are stable.
- Mobility business: There has been a huge contraction in the demand for cycles post-Covid but the company has been able to maintain its market share.
- The EV business to invest INR5b in three businesses.
- Montra e-3Ws had a marketing launch in Sep'22 wherein manufacturing would commence from Mar'23 and sales from Apr'23. There has been a delay in launch due to new battery safety standards introduced by the government. It would be initially launched in the southern states where it has appointed 42 dealers (the plan is to ramp it up to 75 dealers by the end of the year).
- **e-HCV (IPLTech)** launch timeline would be similar to e-3Ws. The company would be indigenizing parts such as battery, motor controller, etc. from 1HFY24.
- e-Tractor business (Celestial) would be homologated by Mar'23E and commercialization would be done by Jun/Jul'23E.
- It would be focusing on controlling software and associate hardware for all of its EV-related businesses.

MOTILAL OSWAL Tube Investments of India

- Optic lens business: Samples have been approved by the customers and the first set of orders from Chinese and Korean customers would be ready to dispatch by 4QFY23.
- Other financial highlights-
- > S/A exports in 3QFY23 declined 1pp in contribution but absolute revenue has remained constant.
- > There has been a 5-7% impact of soft commodity prices on the revenue.
- Net debt: S/A net debt stood at INR1.7b and consol. net cash was at INR6.5b (incl. CG Power and Shanthi Gears).
- **Shanthi Gears:** It is focusing on diversifying in newer markets beyond South India with a major focus on renewable energy and gears.

Exhibit 1: Trends in S/A revenue and revenue growth



Source: Company, MOFSL

Exhibit 2: Trend in consolidated EBITDA margin

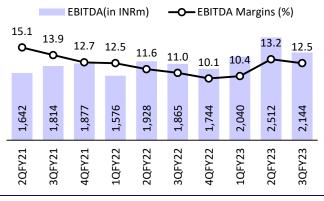
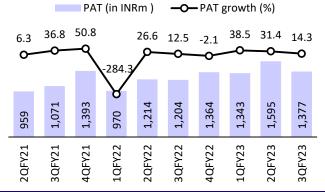


Exhibit 3: Trends in PAT and PAT growth



Source: Company, MOFSL Source: Company, MOFSL

MOTILAL OSWAL

Valuation and view

- TIINDIA offers a robust growth story driven by: a) reasonable growth in the core business and b) leveraging of strong cashflows of the core business (TI-1) to systematically incubate future growth platforms (TI-2) and accomplish opportunistic acquisition of stressed assets (TI-3) at attractive prices.
- Since Mr Vellayan Subbiah was appointed as the Managing Director in Mar'17 (promoted to Executive Vice Chairman in Mar'22), TIINDIA has delivered strong operating performance (~300bp EBIT margin expansion, ~24% PAT CAGR FY17-22 and Core RoCE improvement of over 9pp to ~47%) despite operating in a challenging environment over the last three years. After delivering on the core businesses (TI-1), Mr Subbiah is now focused on the new businesses (TI-2 and TI-3) whereas Mr Mukesh Ahuja (MD from Apr'22, earlier President of Tube Products of India) will take care of the core businesses. New acquisitions such as IPL Tech and Moshine are part of its strategy to ramp up in the TI-2 front of the business.
- For the standalone business, we estimate 16% revenue CAGR and 23% EBITDA CAGR over FY23-25, fueled by EBITDA margin expansion of 150bp to 14.3% (v/s peak of 12.8% in FY20) due to improving mix, operating leverage and 'Lean' project initiatives. Hence, we estimate PAT to clock 31% CAGR over FY23-25.
- At consolidated level, we estimate revenue/EBITDA/PAT CAGR of ~15%/19%/23% over FY23-25, respectively. We estimate consolidated RoCE to improve by 20bp to 41.1% by FY25. We are not building in any benefit from new ventures under TI-2 (except for the Lens business, which is part of Others) in our consolidated performance. Based on our DCF-based estimates, we see potential value of ~INR235 per share from e-3Ws and tractors businesses
- Valuation and view: We have raised our FY23E/FY24E EPS by 10%/5%, respectively, driven by upgrades in our estimates for CG Power despite downgrades in the S/A business by 8% each. TIINDIA offers diversified revenue streams with strong growth in the core business (~31% S/A PAT CAGR over FY23E-25E), ramp-up in CG Power and optionality of new businesses incubated under TI-2 strategy. The stock trades at 32.5x/26.2x FY24E/FY25E consol. EPS. We maintain our BUY rating with a TP of ~INR3,215 (premised on Dec'24E SOTP; based on 35x for the standalone business and valuing listed subsidiaries at 20% HoldCo discount).

Exhibit 4: Revised estimates (consolidated)

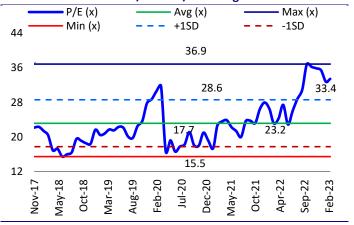
(INR b)		FY23E			FY24E	
	Rev	Old	Chg (%)	Rev	Old	Chg (%)
Net Sales	151.4	149.8	1.0	173.9	171.4	1.5
EBITDA Margin (%)	13.2	12.5	70bp	13.4	13.0	50bp
PAT	12.9	11.7	9.7	15.8	15.0	5.3
EPS (INR)	66.8	60.8	9.7	82.1	78.0	5.3

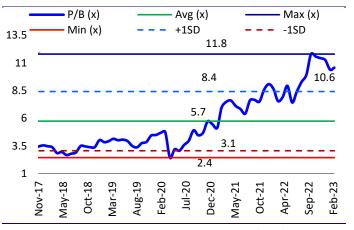
MOTILAL OSWAL Tube Investments of India

Exhibit 5: TIINDIA - Our SoTP-based TP

SOTP (INR/Share)		FY23E	FY24E	FY25E
Value of S/A Business @ 35x EPS	PE @ 35x	1,090	1,450	1,883
Value for e-3W business			122	136
Value for e-Tractor business			93	105
Value of listed subs post hold-co discount (20%)	20			
Shanthi Gears	334	75	75	75
CG Power	307	1,131	1,131	1,131
Fair value (INR/Share)		2,296	2,871	3,330
TP @ Dec-24			3,215	
Upside (%)			20.5	

Exhibit 6: Valuations – P/E and P/B trading bands





Source: Bloomberg, MOFSL

Source: Bloomberg, MOFSL

 $Motilal\ Oswal$ Tube Investments of India

Story in charts

Exhibit 7: Trend in consolidated sales

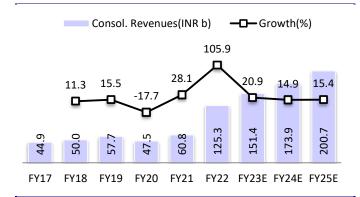


Exhibit 8: Trend in consolidated EBITDA

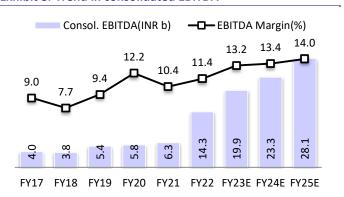


Exhibit 9: Trend in consolidated PAT

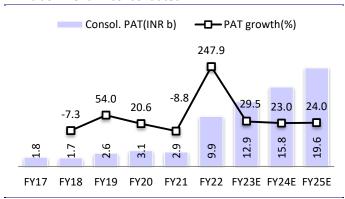


Exhibit 10: Trend in consolidated capital efficiency

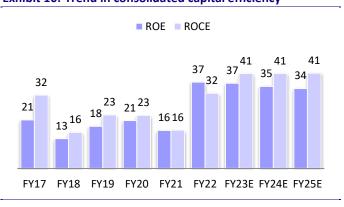


Exhibit 11: Trend in FCF

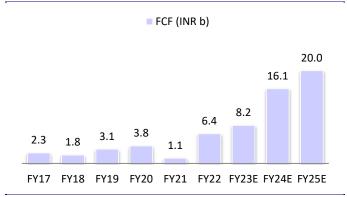
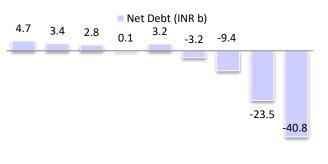


Exhibit 12: Trend in net debt



FY17 FY18 FY19 FY20 FY21 FY22 FY23E FY24E FY25E

 $Motilal\ Oswal$

Financials and valuations

Y/E March	FY19	FY20	FY21	FY22	FY23E	FY24E	FY25E
Net Op. Revenues	57,748	47,504	60,833	125,253	1,51,387	1,73,939	2,00,708
Change (%)	15.5	-17.7	28.1	105.9	20.9	14.9	15.4
EBITDA	5,447	5,785	6,347	14,338	19,914	23,323	28,136
Margin (%)	9.4	12.2	10.4	11.4	13.2	13.4	14.0
Depreciation	1,616	1,853	2,506	3,492	3,594	3,841	4,054
EBIT	3,831	3,932	3,841	10,846	16,320	19,482	24,082
Interest charges	528	304	459	583	453	491	530
Other Income	532	623	681	1,086	1,303	2,134	2,635
PBT bef. EO Exp.	3,835	4,252	4,064	11,349	17,169	21,125	26,187
EO Income/(Exp)	30	-220	-419	202	0	0	0
PBT after EO Exp.	3,865	4,032	3,645	11,551	17,169	21,125	26,187
Current Tax	1,228	1,144	1,074	1,731	4,292	5,281	6,547
Deferred Tax	40	-244	-286	-123	0	0	0
Tax Rate (%)	32.8	22.3	21.6	13.9	25.0	25.0	25.0
Reported PAT	2,508	3,133	2,858	9,914	12,877	15,844	19,640
Adjusted PAT	2,488	3,303	3,186	9,740	12,877	15,844	19,640
Change (%)	57.5	32.8	-3.6	205.7	32.2	23.0	24.0
Margin (%)	4.3	7.0	5.2	7.8	8.5	9.1	9.8
Consolidated - Balance Sheet Y/E March	FY19	FY20	FY21	FY22	FY23E	FY24E	FY25E
Equity Share Capital	188	188	193	193	193	193	193
Net Worth	14,754	17,337	21,718	30,711	39,430	50,239	63,771
Total Loans	5,079	2,694	13,262	8,038	8,038	8,038	8,038
Capital Employed	19,833	20,031	34,979	38,748	47,468	58,277	71,809
Gross Block	17,126	19,753	39,006	40,078	43,990	47,620	51,250
Less: Accum. Deprn.	6,049	7,820	10,353	13,584	17,178	21,019	25,073
Net Fixed Assets	11,077	11,933	28,654	26,494	26,813	26,602	26,177
Goodwill on Consolidation	3,091	3,092	5,998	6,631	6,631	6,631	6,631
Capital WIP	689	585	1,353	1,283	1,000	1,000	1,000
Total Investments	1,762	2,266	4,267	5,537	5,537	5,537	5,537
Curr. Assets, Loans&Adv.	16,989	12,927	37,592	43,722	60,982	82,314	1,08,277
Inventory	8,148	5,586	11,094	13,271	18,664	21,444	24,745
Account Receivables	6,806	5,246	12,785	17,853	22,812	26,210	30,244
Cash and Bank Balance	560	378	5,755	5,727	11,936	25,963	43,253
Loans and Advances	1,474	1,716	7,958	6,871	7,569	8,697	10,035
Curr. Liability & Prov.	13,024	9,970	51,914	43,432	49,125	56,021	64,067
Account Payables	9,614	6,959	22,570	23,432	24,133	27,647	31,677
Other Current Liabilities	2,675	2,371	26,312	17,717	22,708	26,091	30,106
Provisions	735	640	3,032	2,283	2,283	2,283	2,283
			44.000	200	44.057	25.202	
Net Current Assets	3,965	2,957	-14,322	289	11,857	26,293	44,210

E: MOFSL Estimates

Appl. of Funds

6 February 2023 8

20,939

38,447

45,363

56,965

71,191

88,683

20,795

 $Motilal\ Oswal$

Financials and valuations

Ratios							
Y/E March	FY19	FY20	FY21	FY22	FY23E	FY24E	FY25E
Basic (INR)							
EPS	13.2	17.6	16.5	50.5	66.8	82.1	101.8
Cash EPS	21.9	27.4	29.5	68.6	85.4	102.0	122.8
BV/Share	78.6	92.3	112.6	159.2	204.4	260.4	330.6
DPS	2	4	4	4	6	8	11
Payout (%)	19.9	21.0	23.6	6.8	9.3	10.2	10.9
Valuation (x)							
P/E	201.4	151.7	161.4	52.8	40.0	32.5	26.2
Cash P/E	122.1	97.2	90.4	38.9	31.2	26.1	21.7
P/BV	34.0	28.9	23.7	16.8	13.1	10.2	8.1
EV/Sales	8.8	10.6	8.6	4.1	3.4	2.9	2.4
EV/EBITDA	92.8	87.0	82.2	36.1	25.6	21.3	17.0
Dividend Yield (%)	0.1	0.1	0.1	0.1	0.2	0.3	0.4
FCF per share	16.5	20.1	5.8	33.2	42.6	83.5	103.7
Return Ratios (%)							
RoIC	21.5	27.2	20.4	42.7	49.5	49.9	49.6
RoE	18.1	20.6	16.3	37.2	36.7	35.3	34.5
RoCE	23.0	22.9	16.4	32.4	40.9	40.9	41.1
Working Capital Ratios							
Fixed Asset Turnover (x)	3.4	2.4	1.6	3.1	3.4	3.7	3.9
Asset Turnover (x)	2.8	2.3	1.6	2.8	2.7	2.4	2.3
Inventory (Days)	51	43	67	39	45	45	45
Debtor (Days)	43	40	77	52	55	55	55
Creditor (Days)	61	53	135	68	58	58	58
Working Cap. Turnover (Days)	22	20	-120	-16	0	1	2
Consolidated - Cash Flow Statement							(INR m)
Y/E March	FY19	FY20	FY21	FY22	FY23E	FY24E	FY25E
OP/(Loss) before Tax	3,865	4,032	3,645	11,518	17,169	21,125	26,187
Depreciation	1,616	1,715	2,506	3,492	3,594	3,841	4,054
Interest & Finance Charges	528	304	459	583	453	491	530
Direct Taxes Paid	-1,182	-1,223	-990	-1,149	-4,292	-5,281	-6,547
(Inc)/Dec in WC	250	1,162	-3,157	-5,209	-5,430	-409	-627
Others	-146	-28	108	-462	352	-25	43
CF from Operating	4,930	5,961	2,572	8,773	11,847	19,741	23,640
(Inc)/Dec in FA	-1,835	-2,191	-1,449	-2,369	-3,630	-3,630	-3,630
Free Cash Flow	3,095	3,770	1,123	6,404	8,217	16,111	20,010
(Pur)/Sale of Investments	-275	-344	-2,169	-883	0	0	0
Others	158	76	170	2,459	1,303	2,134	2,635
CF from Investments	-1,953	-2,459	-3,448	-793	-2,327	-1,496	-995
Issue of Shares	26	40	3,472	33	0	0	0
Inc/(Dec) in Debt	-1,543	-1,744	439	-6,147	0	0	0
Interest Paid	-631	-281	-337	-591	-453	-491	-530
Dividend Paid	-657	-1,059	-423	-724	-1,202	-1,618	-2,147
Others	0	204	2,658	-1,565	0	0	0
CF from Fin. Activity	-2,804	-2,841	5,809	-8,993	-1,655	-2,109	-2,677
Inc/Dec of Cash	174	661	4,933	-1,014	7,865	16,136	19,968
Opening Balance	-485	-311	350	5,282	4,269	12,134	28,270
Closing Balance	-311	350	5,282	4,269	12,134	28,270	48,237
Inc/Dec of Cash Opening Balance	174 -485	661 -311	4,933 350	-1,014 5,282	7,865 4,269	16,136 12,134	19, 9 28,2

 $Motilal\ Oswal$

NOTES

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 Motilal Oswal Financial Services Limited available http://onlinereports.motilaloswal.com/Dormant/documents/List%20of%20Associate%20companies.pdf

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

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

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

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

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.

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

11 6 February 2023

 $\operatorname{Motilal}$ Oswal Tube Investments of India

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.

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022-3980 4263; 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::022-71881085.

Registration details of group entities.: Motilal Oswal Financial Services Ltd. (MOFSL): INZ000158836 (BSE/NSE/MCX/NCDEX); CDSL: IN-DP-16-2015; NSDL: IN-DP-NSDL-152-2000; 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.