

JSW Steel

Estimate changes	↔
TP change	↔
Rating change	↔

Bloomberg	JSTL IN
Equity Shares (m)	2445
M.Cap.(INRb)/(USDb)	2466.2 / 28.9
52-Week Range (INR)	1075 / 824
1, 6, 12 Rel. Per (%)	-5/-1/2
12M Avg Val (INR M)	2111

Financials Snapshot (INR b)			
Y/E MARCH	FY25	FY26E	FY27E
Net Sales	1,688	2,053	2,389
EBITDA	229	351	456
Adj.PAT	38	121	190
EPS (Gr %)	-57.7	217.5	57.9
BV/Sh (INR)	326	372	446
Ratios			
ROE (%)	4.8	14.2	19.1
RoCE (%)	5.4	9.5	12.6
Valuations			
P/E (X)	70.5	20.4	12.9
P/BV (X)	3.1	2.7	2.3
EV/EBITDA (X)	14.4	9.3	7.1
Div Yield (%)	0.3	0.3	0.3

Shareholding pattern (%)			
As On	Mar-25	Dec-24	Mar-24
Promoter	44.8	44.9	44.8
DII	11.0	11.1	10.3
FII	26.0	25.8	26.4
Others	18.2	18.2	18.4

FII Includes depository receipts

CMP: INR1,009 TP: INR1,190 (+18%)

Buy

In-line operating performance

- JSTL posted consolidated revenue of INR448b (-3% YoY and +8% QoQ) in 4QFY25, in line with our estimate of INR447b.
- EBITDA came in at INR63b (+4% YoY and +14% QoQ), largely in line with our estimate. EBITDA was supported by higher sales volumes and lower coking coal costs.
- EBITDA/t stood at INR8,515/t in 4QFY25, down 6% YoY but improved by 2% QoQ (vs. our est. of INR9,158/t).
- APAT stood at INR15b (+18% YoY and +96% QoQ), aided by a lower tax outgo during the quarter (vs. our estimate of INR17.2b).
- Combined crude steel production stood at 7.63mt (+12% YoY and +9% QoQ). Capacity utilization of India operation was 93% during the quarter and 91% in FY25.
- In 4QFY25, sales volumes stood at 7.49mt (+11% YoY and +12% QoQ) and ASP stood at INR59,800/t (-13% YoY and -3% QoQ).
- Domestic sales at 6.72mt rose 30% YoY and 12% QoQ, whereas institutional sales volumes increased 33% YoY and 11% QoQ and Retail sales grew 25% YoY and 15% QoQ. Exports remained stable QoQ at 8% of sales from the Indian operations.
- During FY25, JSTL revenue fell 4% YoY to INR1,688b and EBITDA declined by 19% YoY to INR229b. Adj. PAT for FY25 declined by 58% YoY to INR38.2b. Consolidated annual production stood at 27.79mt (+5% YoY) and sales at 26.45mt (+7% YoY).
- Dividend: INR2.8 per share.

Highlights from the management commentary

- Realization/t is expected to go up by INR3,200-3,250/t for 1QFY26.
- Coking coal costs declined USD15/t QoQ (guided USD10-15/t) in 4QFY25. In 1QFY26, management expects coking coal costs to further decline by USD10-15/t sequentially.
- Volume guidance for FY26: Indian operations' production/sales to be 29.5mt/28.2mt. USA-Ohio production/sales to be 1/1mt.
- Management targets VAP to be 60%+ in FY26. After the capacities come on stream, the VAP share is likely to fluctuate as the downstream capacities will come with a delay as compared to crude steel capacity.
- Capex Guidance: INR200b for FY26 and INR210b for FY27. Out of this, ~96% of the total capex will be spent on Indian operations, and the remaining for overseas operations.
- Captive iron ore sourcing is expected at 40% for FY26. It produced 34 million tons in FY25, which should be within a similar range in FY26.

Alok Deora - Research analyst (Alok.Deora@MotilalOswal.com)

Sonu Upadhyay - Research analyst (Sonu.Upadhyay@MotilalOswal.com)

Investors are advised to refer through important disclosures made at the last page of the Research Report.

Motilal Oswal research is available on www.motilaloswal.com/Institutional-Equities, Bloomberg, Thomson Reuters, Factset and S&P Capital.

Valuation and view

- JSTL reported a decent performance in 4QFY25, supported by strong volume and deflated costs, offsetting the subdued realizations. We believe JSTL is well placed with new capacities coming on-stream, strong domestic demand, and a rising share of value-added proportion in the sales mix. Its focus on increasing the captive share of iron ore and improving coal linkages will support earnings.
- Going forward, we expect strong revenue/EBITDA/APAT performance, driven by healthy volume, improving realization and muted costs. This will generate CFO of +INR600b over FY26-27E, which will help JSTL to fund its proposed capex of INR650b during FY25-27E.
- **At CMP, JSTL trades at 7x FY27E EV/EBITDA and we largely maintain our FY26/FY27 EBITDA estimates. We reiterate our BUY rating on the stock with a TP of INR1,190 (premised on 8x EV/EBITDA on FY27 estimate).**

Consolidated financial performance (INR b)

Y/E March	FY24				FY25				FY24	FY25	FY25	Vs Est
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q			4QE	(%)
Sales (kt)	5,710	6,340	6,000	6,730	6,120	6,130	6,710	7,490	24,780	26,450	7,187	4%
Change (YoY %)	27.2	10.5	6.6	3.1	7.2	(3.3)	11.8	11.3	10.7	6.7		
Change (QoQ %)	(12.6)	11.0	(5.4)	12.2	(9.1)	0.2	9.5	11.6	-	-		
Net Realization/t	73,928	70,322	69,900	68,750	70,168	64,737	61,666	59,838	70,624	63,828	62,187	-4%
Net Sales	422.1	445.8	419.4	462.7	429.4	396.8	413.8	448.2	1,750.1	1,688.2	447	0%
Change (YoY %)	10.8	6.7	7.2	(1.5)	1.7	(11.0)	(1.3)	(3.1)	5.5	(3.5)		
Change (QoQ %)	(10.1)	5.6	(5.9)	10.3	(7.2)	(7.6)	4.3	8.3				
EBITDA	70.5	78.9	71.8	61.2	55.1	54.4	55.8	63.8	282.4	229.0	66	-3%
Change (YoY %)	63.5	350.1	57.9	(22.9)	(21.8)	(31.1)	(22.3)	4.1	52.2	(18.9)		
Change (QoQ %)	(11.2)	11.9	(9.0)	(14.7)	(10.0)	(1.3)	2.6	14.3				
EBITDA (INR per ton)	12,340	12,438	11,967	9,100	9,003	8,869	8,314	8,515	11,395	8,659	9,158	-7%
Interest	19.6	20.8	20.0	20.6	20.7	21.3	21.2	20.9	81.1	84.1		
Depreciation	19.0	20.2	20.6	21.9	22.1	22.7	23.4	25.0	81.7	93.1		
Other Income	3.3	2.4	1.9	2.4	1.6	1.5	1.5	2.3	10.0	6.9		
PBT (before EO Item)	35.1	40.2	33.2	21.1	13.9	11.9	12.8	20.2	129.6	58.8	27	-25%
Share of P/(L) of Ass.	(0.3)	(0.2)	(0.2)	(1.0)	(0.1)	(0.6)	0.1	(2.4)	(1.7)	(3.1)		
EO Items	-	(5.9)	-	-	-	3.4	1.0	0.4	(5.9)	4.9		
PBT (after EO Item)	34.8	45.9	33.0	20.1	13.8	7.9	11.8	17.3	133.8	50.8		
Total Tax	10.5	18.1	8.5	6.9	5.1	3.9	4.6	2.3	44.1	15.9		
% Tax	30.2	39.5	25.8	34.3	37.2	48.8	39.0	13.2	32.9	31.2		
PAT before MI and Asso.	24.3	27.7	24.5	13.2	8.7	4.0	7.2	15.0	89.7	34.9		
MI (Profit)/Loss	0.9	0.1	0.4	0.2	0.2	(0.4)	0.0	(0.0)	1.6	(0.1)		
Reported PAT after MI/Asso.	23.4	27.6	24.2	13.0	8.5	4.4	7.2	15.0	88.1	35.0		
Adj. PAT after MI and Asso.	23.4	30.7	22.8	13.0	8.5	6.4	7.8	15.3	89.8	38.0	17.2	-11%
Change (YoY %)	179.0	NA	365.3	(64.5)	(63.9)	(79.0)	(65.8)	17.7	152.8	(57.7)		
Change (QoQ %)	(36.2)	31.1	(25.6)	(43.0)	(34.9)	(23.8)	20.9	96.4				

Source: MOFSL, Company



Highlights from the management interaction

Guidance:

- Realization/t is expected to go up by INR3,200-3,250/t for 1QFY26.
- Coking coal costs declined USD15/t QoQ (guided USD10-15/t) in 4QFY25. In 1QFY26, management expects the coking coal costs to further decline by USD10-15/t sequentially.
- Volume guidance for FY26: Indian operations Production/Sales to be 29.5/28.2mt; USA-Ohio Production/Sales to be 1/1mt.
- Management targets VAP to be 60%+ in FY26. After the capacities come on stream, the VAP share is likely to fluctuate as the downstream capacities will come with a delay as compared to crude steel capacities.
- Coated coloured sheets and CRGO are seeing downstream capacity expansions over the next 2-2.5 years.

Capex:

- Capex Guidance: INR200b for FY26 and INR210b for FY27. Out of this, ~96% of the total capex will be spent on Indian operations, and the remaining for overseas operations.
- **JVML Project:** The new blast furnaces at JVML are operating at over 90% capacity utilization as of Mar'25. One of two converters and both casters are operational, with the second converter expected by 2QFY26. This expansion is expected to contribute 3.5mt of incremental production in FY26.
- **Vijayanagar Blast Furnace 3 (BF3):** A shutdown is planned for Jul'25 to upgrade capacity by 1.5mt.
- Dolvi Phase – III expansion: Long lead-time ordered and letter of credit established. This expansion will increase the steel-making capacity by 5MTPA, taking total capacity to 15MTPA, and is expected to be completed by Sep'27.
- BPSL phase II (from 3.5MTPA to 5MTPA) expansion is completed and ramped up to 4.5MTPA in 3QFY25 and the balance 0.5MTPA expansion will be achieved by debottlenecking till FY27.
- The 0.12MTPA color-coating line in Jammu & Kashmir is commissioned and the operations started in 3QFY25 and is under a trial run.

Iron ore linkages:

- Captive sourcing is expected at 40% for FY26. It produced 34 million tonnes in FY25, which should be within a similar range in FY26.
- JSTL has nine mines in Karnataka, with an existing EC of ~7mt, and it recently added 4mt, taking the total capacity to 11mt. The company also allotted three new mines with an EC of ~4.5mt, taking the total production capacity to 15.5mt by 2QFY26, and it targets to produce ~15mt during FY26.
- The mining operations at Cudnem are expected to start by 3QFY26, and Surla and Codli mines by 2HFY27E. Together, JSTL will operate three mines in Goa with cumulative production capacity of 3.5mt, which will support Dolvi operations.
- From the Orissa mines, the company is targeting to generate 30mt of iron ore by enhancing ECs. BPSL mine is expected to start operations in 1QFY26.
- Production from **Moitra mine** is expected to start in Jun'26.

- JSW Steel won a bid to operate Dugda Washery of 2mt in Jharkhand for 25 years, with the commissioning planned by Dec'26.

Demand outlook:

- Steel demand in India is expected to grow by 8-10%, with JSW Steel projecting consolidated production of 30.5mt and sales of 29.2mt (10% volume growth).
- Improved pricing is expected to enhance EBITDA at the Baytown mill (Texas) and reduce losses at Ohio operations. Italian operations are expected to improve with better rail order visibility.
- Imports are expected to moderate, and exports (8% of sales) will face headwinds, but reduced dependence on international markets will mitigate impacts.

Other highlights:

- The Supreme Court rejected JSW Steel's resolution plan for BPSL in May'25, directing refunds of amounts paid to creditors.
- JSW Steel, in consultation with legal advisors, believes it has strong grounds for legal remedies. The matter is sub-judice, and no further details on cash flows, capex, or timelines provided. Production and sales at BPSL continue unabated, with no additional equity infusion or loans extended by JSW Steel.
- There is no tax benefits that JSW Steel received owing to the BPSL acquisition.

Story in charts

Exhibit 1: Share of VAP stood at 60% in 4QFY25

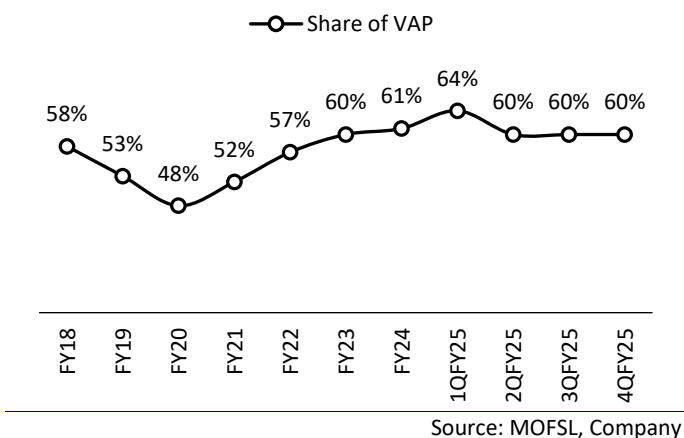


Exhibit 2: Quarterly consol. volumes (MT)

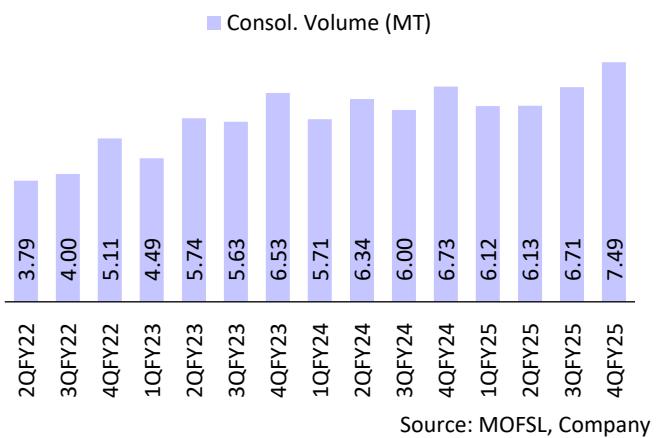


Exhibit 3: Consol. ASP and EBITDA/t trends

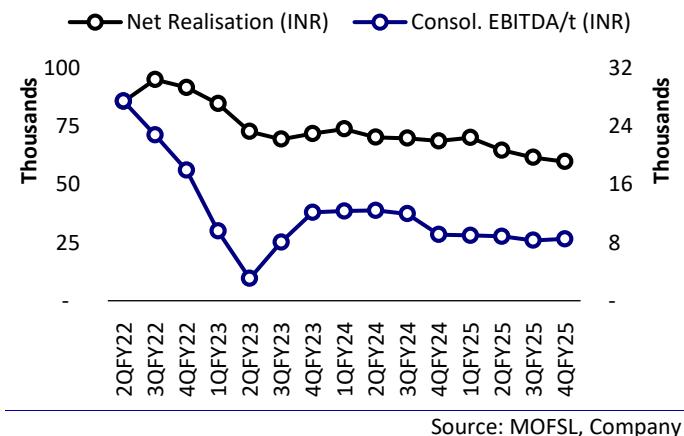


Exhibit 4: Sales volume expected to hit ~30mt by FY27

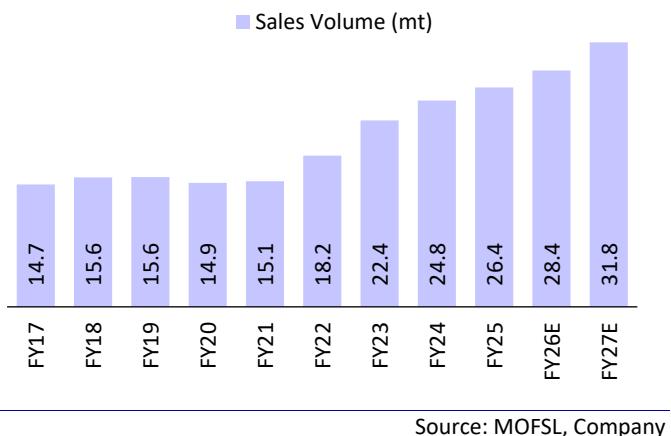


Exhibit 5: Consol. EBITDA (INR/t) set to improve

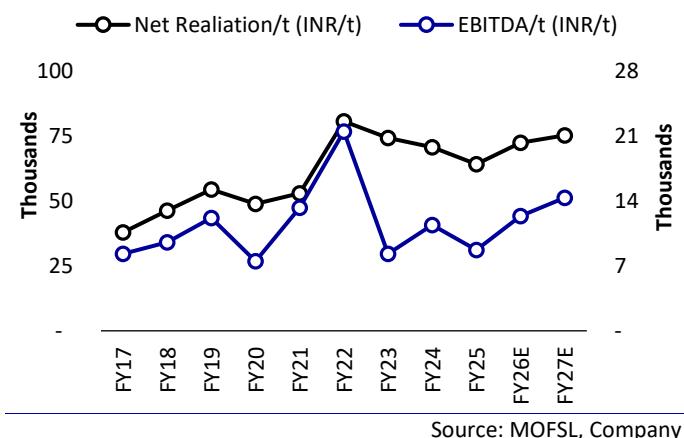


Exhibit 6: Net debt/EBITDA likely to fall below LTA

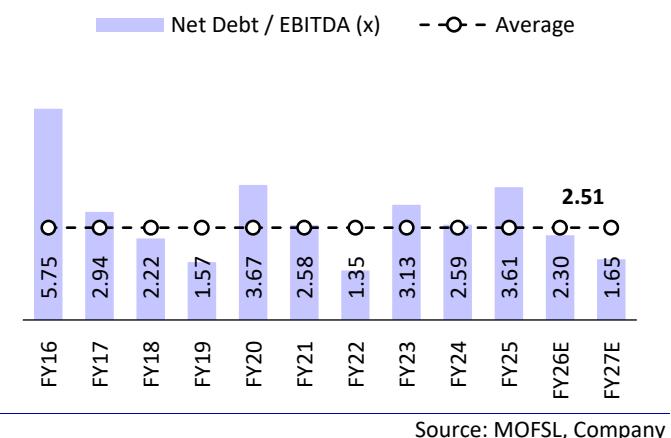


Exhibit 7: Operational Estimates

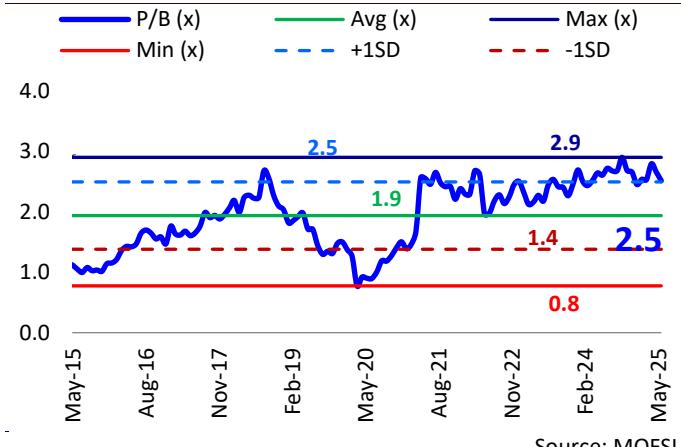
Particular	UoM	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26E	FY27E
Volumes	(mt)	15.6	14.9	15.1	18.2	22.4	24.8	26.4	28.4	31.8
Growth	%	0.3	(4.5)	1.2	20.6	23.2	10.7	6.3	7.8	12.0
Net Realization	(INR/t)	54,331	48,732	52,792	80,512	74,122	70,624	64,070	72,282	75,114
Growth	%	17.5	(10.3)	8.3	52.5	(7.9)	(4.7)	(9.3)	12.8	3.9
EBITDA/t	(INR/t)	12,149	7,488	13,249	21,456	8,284	11,395	8,692	12,359	14,332
Growth	%	27.7	(38.4)	76.9	61.9	(61.4)	37.6	(23.7)	42.2	16.0

Source: MOFSL, Company

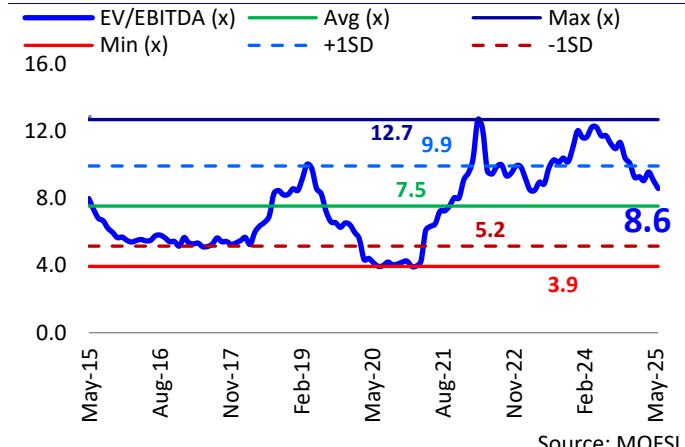
Exhibit 8: Changes to our key assumptions and estimates (consolidated)

Particulars (INR b)	FY26E			FY27E		
	New	Old	% Change	New	Old	% Change
Revenue	2,053	2,053	0.0%	2,389	2,389	0.0%
EBITDA	351	350	0.2%	456	455	0.2%
Adj PAT	121	132	-8.5%	190	202	-5.9%

Source: MOFSL, Company

Exhibit 9: JSTL slipped from peak P/B


Source: MOFSL

Exhibit 10: EV/EBITDA trend


Source: MOFSL

Exhibit 11: Target Price calculations

Particular	UoM	FY27E
Target EV/EBITDA	x	8.0
Target EV	(INR b)	3,646
Net debt	(INR b)	752
Equity value	(INR b)	2,894
No. of Shares	(Nos. b)	2.44
TP		1,190
UPSIDE %		18%

Source: MOFSL, Company

Financials and Valuation

Income statement (Consolidated) - INR b

Y/E March	FY20	FY21	FY22	FY23	FY24	FY25	FY26E	FY27E
Net sales	726	796	1,464	1,660	1,750	1,688	2,053	2,389
Change (%)	(14.3)	9.6	83.9	13.4	5.5	(3.5)	21.6	16.3
Total Expenses	615	596	1,074	1,474	1,468	1,459	1,702	1,933
EBITDA	112	200	390	185	282	229	351	456
% of Net Sales	15.4	25.1	26.6	11.2	16.1	13.6	17.1	19.1
Depn. & Amortization	42	47	60	75	82	93	98	102
EBIT	69	153	330	111	201	136	253	354
Net Interest	43	40	50	69	81	84	89	92
Other income	5	6	15	10	10	7	8	10
PBT before EO	32	119	296	52	130	59	172	272
EO income	(21)	(1)	7	(6)	(6)	5	-	-
PBT after EO	53	120	288	58	136	54	172	272
Tax	12	41	88	15	44	16	52	82
Rate (%)	23.7	34.5	30.6	26.2	32.5	29.4	30.0	30.0
PAT before MI and Asso.	40	79	200	43	91	38	121	190
Minority interests	(1)	(0)	3	(0)	2	(0)	-	-
Share of Associates	(1)	0	9	(1)	(2)	(3)	-	-
Reported PAT after MI and Asso.	40	79	207	41	88	35	121	190
Adj. PAT (after MI & Asso)	20	78	214	36	90	38	121	190
Change (%)	(74.2)	297.8	173.3	(83.4)	152.8	(57.7)	217.5	57.9

Balance sheet (Consolidated) - INR b

Y/E March	FY20	FY21	FY22	FY23	FY24	FY25	FY26E	FY27E
Share Capital	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1
Reserves	363	453	670	654	774	792	904	1,086
Net Worth	366	456	673	657	777	795	907	1,089
Minority Interest	(6)	(6)	12	13	21	22	22	22
Total Loans	530	644	700	788	856	960	940	874
Deferred Tax Liability	17	35	76	79	97	95	95	95
Capital Employed	907	1,129	1,461	1,538	1,750	1,871	1,964	2,079
Gross Block	764	828	1,231	1,338	1,483	1,693	1,843	1,993
Less: Accum. Deprn.	184	223	282	343	411	505	602	704
Net Fixed Assets	580	605	949	995	1,072	1,188	1,241	1,289
Capital WIP	313	370	219	271	349	267	292	317
Investments	61	138	143	163	215	245	245	245
Curr. Assets	365	359	654	682	645	707	753	819
Inventory	138	142	338	331	378	350	394	453
Account Receivables	45	45	75	71	75	84	87	103
Cash and Bank Balance	120	128	174	207	123	133	131	121
Others	62	43	67	72	68	141	141	141
Curr. Liability & Prov.	411	343	504	573	532	536	567	590
Account Payables	179	152	309	125	157	120	151	174
Provisions & Others	232	190	195	448	375	416	416	416
Net Current Assets	(46)	16	150	109	113	171	186	229
Appl. of Funds	907	1,129	1,461	1,538	1,750	1,871	1,964	2,079

Financials and Valuation

Ratios								
Y/E March	FY20	FY21	FY22	FY23	FY24	FY25	FY26E	FY27E
Basic (INR)								
EPS	8.2	32.5	89.2	14.8	36.8	15.6	49.4	78.0
Cash EPS	34.0	52.1	112.2	48.4	70.3	52.5	89.4	119.6
BV/Share	152.5	189.3	280.4	273.7	318.3	325.8	371.7	446.3
DPS	2.0	6.5	17.4	3.4	7.3	2.8	3.5	3.5
Payout (%)	11.9	19.8	20.2	19.7	20.2	19.5	7.1	4.5
Valuation (x)								
P/E	18.1	6.9	3.2	37.5	17.8	70.5	20.4	12.9
Cash P/E	8.7	4.3	2.5	13.4	9.3	19.2	11.3	8.4
P/BV	1.9	1.2	1.0	2.4	2.1	3.1	2.7	2.3
EV/Sales	1.5	1.3	0.8	1.3	1.3	1.9	1.6	1.3
EV/EBITDA	10.0	5.3	3.1	11.5	8.3	14.4	9.3	7.1
Dividend Yield (%)	0.7	2.9	6.1	0.5	1.1	0.3	0.3	0.3
Return Ratios (%)								
EBITDA Margins (%)	15.4	25.1	26.6	11.2	16.1	13.6	17.1	19.1
Net Profit Margins (%)	2.7	9.8	14.6	2.1	5.1	2.2	5.9	8.0
RoE	5.5	19.0	38.0	5.3	12.4	4.8	14.2	19.1
RoCE (pre-tax)	6.9	10.2	18.8	5.9	8.6	5.4	9.5	12.6
RoIC (pre-tax)	11.1	12.6	19.8	7.2	10.4	6.4	10.5	13.5
Working Capital Ratios								
Fixed Asset Turnover (x)	0.8	0.8	1.3	1.3	1.2	1.2	1.3	1.5
Asset Turnover (x)	0.6	0.5	0.7	0.8	0.8	0.7	0.8	0.9
Debtor (Days)	27	22	19	17	16	17	17	17
Inventory (Days)	81	84	105	96	88	91	91	91
Creditors(Days)	101	101	76	53	34	35	35	35
Working Capital (Days)	8	5	48	60	69	73	73	73
Leverage Ratio (x)								
Current Ratio	0.9	1.0	1.3	1.2	1.2	1.3	1.3	1.4
Interest Cover Ratio	1.6	3.9	6.6	1.6	2.5	1.6	2.8	3.9
Debt/Equity	1.1	1.1	0.8	0.9	0.9	1.0	0.9	0.7
Cash flow statement (consolidated) - INR b								
Y/E March	FY20	FY21	FY22	FY23	FY24	FY25	FY26E	FY27E
EBITDA	112	200	390	185	282	229	351	456
Non cash exp. (income)	16	13	(73)	31	(136)	(7)	(17)	(52)
(Inc)/Dec in Wkg. Cap.	(12)	(19)	(54)	(6)	(28)	(20)	(52)	(82)
Tax Paid	11	(5)	(1)	23	2	6	-	-
CF from Op. Activity	128	188	263	233	121	209	283	322
(Inc)/Dec in FA + CWIP	(127)	(176)	(106)	(151)	(202)	(266)	(175)	(175)
(Pur)/sale of Invest.	1	(3)	(1)	0	36	63	-	-
Acquisition in subs.	-	-	-	-	-	-	-	-
Int. & Dividend Income	5	6	6	11	9	7	8	10
Others	(75)	74	(59)	33	10	26	-	-
CF from Inv. Activity	(196)	(98)	(160)	(107)	(146)	(170)	(167)	(165)
Equity raised/(repaid)	0	0	-	-	-	-	-	-
Debt raised/(repaid)	111	33	(80)	51	39	91	(20)	(66)
Dividend (incl. tax)	(47)	(43)	(51)	(69)	(81)	(88)	(89)	(92)
Interest paid	(12)	(5)	(16)	(42)	(8)	(5)	(9)	(9)
Other financing	-	-	-	-	-	-	-	-
CF from Fin. Activity	52	(14)	(147)	(60)	(50)	(3)	(117)	(167)
(Inc)/Dec in Cash	(16)	76	(44)	66	(76)	36	(1)	(10)
Add: opening Balance	56	40	119	88	154	80	117	115
Regrouping / transaction Adj.	(0)	4	12	(0)	2	(0)	-	-
Closing cash balance	40	119	88	154	80	117	115	105
Bank Balance	80	9	86	53	43	16	16	16
Closing Balance (incl. bank balance)	120	128	174	207	123	133	131	121

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.

Disclosures

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 website at <https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx>

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

Regional Disclosures (outside India)

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

For Hong Kong:

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

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

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

For Singapore

In Singapore, this report is being distributed by Motilal Oswal Capital Markets (Singapore) Pte. Ltd. ("MOCMSPL") (UEN 201129401Z), which is a holder of a capital markets services license and an exempt financial adviser in Singapore. This report is distributed solely to persons who (a) qualify as "institutional investors" as defined in section 4A(1)(c) of the Securities and Futures Act of Singapore ("SFA") or (b) are considered "accredited investors" as defined in section 2(1) of the Financial Advisers Regulations of Singapore read with section 4A(1)(a) of the SFA.

Accordingly, if a recipient is neither an "institutional investor" nor an "accredited investor", they must immediately discontinue any use of this Report and inform MOCMSPL .

In respect of any matter arising from or in connection with the research you could contact the following representatives of MOCMSPL. In case of grievances for any of the services rendered by MOCMSPL write to grievances@motilaloswal.com.

Nainesh Rajani

Email: nainesh.rajani@motilaloswal.com

Contact: (+65) 8328 0276

Specific Disclosures

1. Research Analyst and/or his/her relatives do not have a financial interest in the subject company(ies), as they do not have equity holdings in the subject company(ies). MOFSL has financial interest in the subject company(ies) at the end of the week immediately preceding the date of publication of the Research Report: Yes. Nature of Financial interest is holding equity shares or derivatives of the subject company
2. Research Analyst and/or his/her relatives do not have actual/beneficial ownership of 1% or more securities in the subject company(ies) at the end of the month immediately preceding the date of publication of Research Report. MOFSL has actual/beneficial ownership of 1% or more securities of the subject company(ies) at the end of the month immediately preceding the date of publication of Research Report:No
3. Research Analyst and/or his/her relatives have not received compensation/other benefits from the subject company(ies) in the past 12 months. MOFSL may have received compensation from the subject company(ies) in the past 12 months.
4. Research Analyst and/or his/her relatives do not have material conflict of interest in the subject company at the time of publication of research report. MOFSL does not have material conflict of interest in the subject company at the time of publication of research report.
5. Research Analyst has not served as an officer, director or employee of subject company(ies).
6. MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months.
7. MOFSL has not received compensation for investment banking /merchant banking/brokerage services from the subject company(ies) in the past 12 months.

8. MOFSL may have received any compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company(ies) in the past 12 months.
 9. MOFSL may have received compensation or other benefits from the subject company(ies) or third party in connection with the research report.
 10. 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 warranty, 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 alterations 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, nor 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.

This report is meant for the clients of Motilal Oswal only.

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.