

Estimate change	↔
TP change	↑
Rating change	↔

CMP: INR356 TP: INR393 (+10%) Neutral

NGEL commissioning; profitability key drivers in FY27

Bloomberg	NTPC IN
Equity Shares (m)	9697
M.Cap.(INRb)/(USDb)	3452 / 37.5
52-Week Range (INR)	371 / 293
1, 6, 12 Rel. Per (%)	12/3/1
12M Avg Val (INR M)	4131

Financials & Valuations (INR b)

Y/E March	FY26E	FY27E	FY28E
Sales	1,896	2,155	2,278
EBITDA	533	615	693
Adj. PAT	219	259	283
Adj. EPS (INR)	23	27	29
EPS Gr. (%)	8	19	9
BV/Sh.(INR)	208	226	246

Ratios

Net D:E	1.2	1.2	1.1
RoE (%)	11.4	12.3	12.4
RoCE (%)	6.8	7.2	7.3
Payout (%)	38.7	31.9	31.4

Valuations

P/E (x)	15.8	13.3	12.2
P/BV (x)	1.7	1.6	1.4
EV/EBITDA (x)	11.3	10.1	9.1
Div. Yield (%)	2.5	2.4	2.6
FCF Yield (%)	-0.2	0.4	2.6

Shareholding pattern (%)

As On	Dec-25	Sep-25	Dec-24
Promoter	51.1	51.1	51.1
DII	29.3	29.1	26.9
FII	16.2	16.4	18.2
Others	3.3	3.4	3.8

FII Includes depository receipts

- Standalone reported PAT in 3Q was in line with our estimates, favored by lower-than-expected finance costs and higher-than-expected other income. However, Adj. PAT came in 6% below our estimates. EBITDA missed our estimates mainly due to weak power demand leading to soft generation trends.
- Key factors we liked about the result: 1) Thermal capacity target for FY26 has been achieved, while targets for FY27 and FY28 are maintained, 2) strong recovery in power demand in Dec'25 and Jan'26 should support strong PLFs in 4QFY26, 3) NGEL curtailment is expected to reduce to nearly zero following the commissioning of the Narela Khetri line, and 4) the company has declared a total interim dividend of INR5.5/share in FY26.
- Key investor concerns: 1) Standalone regulated equity growth remains weak with only 6.5GW of commissioning slated for FY26-FY28, 2) NGEL commissioned only ~2.1GW in 9MFY26 vs. the target of 5GW for FY26, and 3) profitability at NGEL was down sharply by 73% YoY, mainly due to PAT loss at the JV level.
- Valuation and view: We have a Neutral rating on NTPC with a TP of INR393. Our TP is based on a valuation of INR213 for the standalone, coal, and other businesses at Dec'27E P/B of 2x; INR21 for other subsidiaries, and INR45 for JV/associates at Dec'27E P/B of 2x; and the stake in NGEL is valued at a 25% discount to the current market price.

EBITDA miss on weak generation

3QFY26 performance:

- NTPC reported a standalone revenue of INR406b (-2% YoY, +4% QoQ) in 3QFY26, missing our estimate by 9% on account of lower generation due to low power demand.
- EBITDA came in 7% below our estimate at INR120b (flat YoY, +20% QoQ).
- Reported PAT of INR50b (+6% YoY, +7% QoQ) was in line with our estimates, favored by lower-than-expected finance costs and higher-than-expected other income. Adj. PAT came in at INR46.5b (+1% YoY, +3% QoQ).
- NTPC Green reported a consolidated revenue and EBITDA of INR6.5b and INR5.7b, respectively, in 3QFY26, reflecting a 29% and 35% YoY growth, respectively. Reported adjusted profit after tax (APAT) declined 74% YoY to INR0.1b.

Operational and other highlights:

- NTPC Group's total installed capacity now stands at 85.6GW (Standalone: 60.8GW).
- The company's gross power generation for the quarter came at 87BUs, down 4.4% YoY.
- NTPC Group added a capacity of 1,744MW in 3QFY26 (800MW added via Patrattu Thermal project, 694MW Renewable, 250MW THDC PSP).
- NGEL added 2,108MW of RE capacity in 9MFY26 (vs. the target of 5GW for FY26).
- NTPC's standalone 9MFY26 generation was 261Bus vs 277Bus in 9MFY25.
- Plant availability for coal plants stood at 90.8% in 3QFY26 (3QFY25: 89.58%).

Abhishek Nigam – Research Analyst (Abhishek.Nigam@MotilalOswal.com)

Preksha Daga - Research Analyst (Preksha.Daga@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.

- Coal plant PLF declined to 71.03% in 3QFY26, down by 495bp YoY, primarily due to poor demand during the quarter.
- Hydro plant PLF improved to 27.21% (vs. 22.1% in 3QFY25), while gas plant PLF was reported at 4.5%.
- Average tariff was INR4.89/unit in 9MFY26 vs INR4.68/unit in 9MFY25.
- The company has declared the second interim dividend of INR2.75/share for FY26.

Highlights of 3QFY26 performance

■ Generation & Operating Performance

- NTPC Group generation increased 8.82% YoY in Dec'25 and ~4% YoY in Jan'26.
- 9MFY26 Group generation: 320 BUs vs 327 BUs YoY; Standalone: 261 BUs vs 277 BUs YoY.
- Coal PLF for NTPC stations stood at 70.69%, above the national average of 60.79%.
- Captive coal mine dispatch rose 4.34% YoY.
- RE curtailment impact in 9MFY26 was ~420 MUs (including 212 MUs at NREL).

■ Capacity Addition & Expansion Pipeline

- NTPC Group added 1,744 MW in 3QFY26.
- An additional 468 MW RE capacity was commissioned in Jan'26, taking 10MFY26 total additions to 6,615 MW.
- Thermal additions: 2,780 MW commissioned in FY26 to date; no further additions expected in FY26. Targets stand at 1,600 MW (FY27) and 2,120 MW (FY28).
- NGEL added 2,108 MW RE capacity in FY26YTD, with a total operational RE capacity at 8,010 MW as of Dec'25.
- FY26 RE addition target of 5 GW, with ~2.6 GW already added; 2.3–2.4 GW expected over the next two months across Khavda, Bhadla, Kalasar, Gujarat wind, and Ayana projects.
- Forward RE capacity targets remain 8 GW each in FY27 and FY28.

■ Capex, Fuel, and Cost Recovery

- Group CapEx (9MFY26): INR334b. Standalone CapEx (9MFY26): INR194b.
- Coal stock stood at 15mt, sufficient for ~18 days at 85% PLF.
- Fixed cost under-recovery till Dec'25 was INR4.5b.

■ PPA Tie-ups & Nuclear Outlook

- PPA tie-ups: FY26 – 82%, FY27 – 83%, FY28 – 60%; ~74% PPA secured for the ~20 GW three-year pipeline.
- The Shanti Nuclear Act positions nuclear as a core long-term baseload source aligned with Viksit Bharat 2047 and Net Zero 2070 goals, providing NTPC a clearer pathway for future nuclear capacity additions.

Valuation and view

Our TP of INR393 for NTPC is based on:

- Value of INR213 for the standalone, coal, and other businesses at Dec'27E P/B of 2x.
- Value of INR21 for other subsidiaries and INR45 for JV/associates at Dec'27E P/B of 2x.
- The stake in NGEL is valued at a 25% discount to the current market price.

Standalone performance

(INR b)

Y/E March	FY25				FY26E				FY25	FY26E	FY26E 3QE	Var. %	YoY %	QoQ %
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4QE						
Net Sales	444	403	414	439	426	392	406	439	1,700	1,663	448	-9%	-2%	4%
YoY Change (%)	13.5	-1.3	4.8	3.2	-4.2	-2.9	-1.7	0.0	5.0	-2.2	8			
EBITDA	124	97	120	113	103	100	120	110	458	433	130	-7%	0%	20%
Margin (%)	28.0	24.0	28.9	25.6	24.2	25.6	29.5	25.2	26.9	26.1	29			
Depreciation	37	36	37	40	39	40	41	39	151	159	41	1%	11%	3%
Interest	26	31	22	31	28	27	23	24	111	102	29	-23%	3%	-15%
Other Income	6	9	10	19	8	15	10	17	44	50	9	20%	8%	-32%
PBT incl. Regulatory items	62	61	66	81	63	63	71	64	274	261	68			
Extra-Ord inc/(exp)	-	-	-	-	-	-	-	-	-	-	-			
PBT	62	61	66	81	63	63	71	64	269	261	68	4%	7%	13%
Tax	17	14	19	23	15	16	21	13	73	65	18	15%	10%	28%
Rate (%)	26.9	23.2	28.9	28.7	23.7	26.1	29.7	20.0	27.1	25.0	27.0			
Reported PAT	45	46	47	58	48	47	50	52	196	196	50	0%	6%	7%
Adj PAT	42	42	46	50	44	45	47	52	180	187	50	-6%	1%	3%
YoY Change (%)	13.9	28.9	6.0	0.4	5.2	7.5	0.7	3.1	9.8	4.0	7			
Margin (%)	9.4	10.4	11.2	11.4	10.4	11.5	11.4	11.7	10.6	11.3	11			

NTPC SoTP valuation

Segment	Regulated Equity (Dec-27E)	P/B	Value/Sh. (INR)
Standalone + Coal + Others	1,086,502	2	213
Other subsidiaries	100,953	2	21
JV & Associates	291,688	2	45
NGEL Stake*			55
Cash and equivalents			59
Target price			393
CMP			356
Upside/(Downside)			10%

*At 25% Discount

Source: MOFSL



Highlights from the management commentary

Capacity Additions

- NTPC Group added 1,744MW during 3QFY26, comprising 800MW Patraru TPP, 694MW renewable, and 250MW THDC PSP.
- In January 2026, an additional 468 MW of RE capacity was commissioned, taking the total capacity addition in 10MFY26 to 6,615 MW.
- Thermal capacity additions: 2,780 MW commissioned in FY26 to date; no further additions expected in FY26. Targets: 1,600MW in FY27 and 2,120MW in FY28.
- Thermal expansion strategy remains focused on brownfield projects; currently not bidding for greenfield Sec-62 projects but may evaluate selectively.
- Expected thermal project awards of ~4GW in FY27.

■ Demand and Generation Trends

- Power demand grew 6.3% YoY in December and 5.9% YoY in January 2026 (to date). Peak demand reached 245 GW on 9th January, 2026.
- Non-solar peak demand increased to 237.4 GW in FY26 vs 234.4 GW in FY25 and 218.4 GW in FY24.
- NTPC Group generation grew 8.82%YoY in Dec'25 and ~4%YoY in Jan'26.
- 9MFY26 Group generation stood at 320 BUs vs 327 BUs in 9MFY25.
- Standalone generation in 9MFY26 was 261 BUs vs 277 BUs in 9MFY25.

■ Sinner Thermal Power Plant

- Shareholders' agreement signed on 9th Jan'26 following NCLT approval of the NTPC–MAHAGENCO resolution plan.
- Transfer process is at an advanced stage and will add 1,350 MW capacity.

■ Operating Performance

- Coal PLF for NTPC stations in 9MFY26 was 70.69%, higher than the national average of 60.79%.
- Coal stock stood at 15 million tons, sufficient for ~18 days of generation at 85% PLF.
- Captive coal mines reported 4.34%YoY dispatch growth.
- Fixed cost under-recovery till Dec'25 stood at INR4.5b.

■ Receivables & Discom Health

- Outstanding receivable days improved to 26 days as of 31 December 2025 vs 34 days a year earlier.
- Discoms reported profit of ~INR27b in FY25 vs loss of INR255b in FY24, driven by lower AT&C losses and improved payment discipline — strengthening payment security for generators.

■ Financial Performance

- Standalone Q3FY26 total income: INR416b. Standalone 9MFY26 total income: INR1,256b.
- Group 9MFY26 total income: INR1,393b.
- Dividend income from subsidiaries/JVs in 9MFY26 increased to INR19b vs INR13b YoY.
- Regulated equity as of 31st Dec'25: Standalone INR944b; Consolidated INR1,189b.

■ CapEx and Balance Sheet

- Group CapEx (9MFY26): INR334b vs INR307b YoY.
- Standalone CapEx (9MFY26): INR194b vs INR178b YoY.
- Group gross PP&E increased by INR670b YoY to INR4,542b.

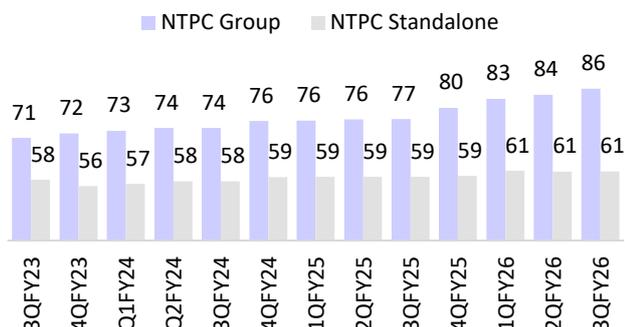
■ Funding & Cost of Debt

- Executed INR50b unsecured term loans (INR35b SBI; INR15b J&K Bank) with 15-year tenure and floating rate linkage.

- Weighted average borrowing cost declined to 6.05% in 9MFY26 vs 6.64% in 9MFY25 due to refinancing and portfolio restructuring.
- **Battery Energy Storage Systems (BESS) & PSP**
- CERC draft regulations allow BESS installation at thermal stations, enabling peak support and improved plant utilization under a cost-plus framework.
- NTPC finalized a 320 MWh BESS project in Kerala.
- Evaluation is underway for 5,000 MWh BESS across 16 NTPC stations under Sec-62, with commissioning expected within ~18 months.
- Third unit of Tehri PSP commissioned; final 250 MW unit expected before FY-end.
- **NGEL (NTPC Green Energy Ltd.)**
- NGEL added 2,108 MW RE capacity in FY26 to date, taking the total operational capacity to 8,010 MW as of 31 December 2025.
- 9MFY26 generation rose 206% YoY to 9,959 MUs, supported by the Ayana acquisition.
- 9MFY26 consolidated revenue increased 23% YoY to INR19b; EBITDA rose 25% to INR17b with 87% margin.
- NGEL CapEx in 9MFY26 stood at INR116b.
- Contracted and awarded capacity increased 11.54% YoY to 15,527 MW.
- Raised INR15b NCDs at 7.01% which was oversubscribed ~8x.
- **NGEL Capacity Pipeline & PPAs**
- FY26 addition target: 5GW; ~2.6 GW already added (including post-9M additions).
- Expected next ~2 months additions of 2.3–2.4 GW across Khavda, Bhadla, Kalasar, Gujarat wind, and Ayana projects.
- Capacity addition targets: 8 GW each in FY27 and FY28.
- PPA tie-up levels: FY26 – 82%, FY27 – 83%, FY28 – 60%.
- Total ~74% PPA secured for 3 years ~20 GW pipeline.
- Firm connectivity currently available for 865MW, with additional connectivity expected from February onward.
- **Curtailement**
- RE curtailement impact in 9MFY26: ~420 MUs lost (NGEL + NREL), including 212 MUs at NREL.
- NGEL curtailement expected to reduce to near zero following commissioning of the Narela Khetri line.
- Residual NREL curtailement linked to Khavda line constraints, expected to ease by October.
- **Policy & Nuclear**
- The Shanti Nuclear Act positions nuclear as a core long-term baseload source aligned with Viksit Bharat 2047 and Net Zero 2070 goals.
- Provides NTPC with a clearer pathway for new nuclear capacity additions and participation in advanced nuclear technologies, supporting long-term portfolio diversification and shareholder value.

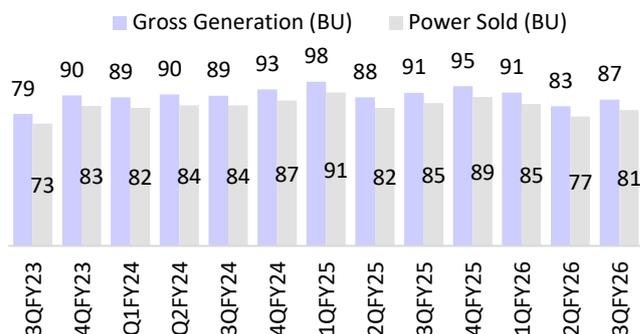
Story in charts – 3QFY26

Exhibit 1: Installed capacity (GW)



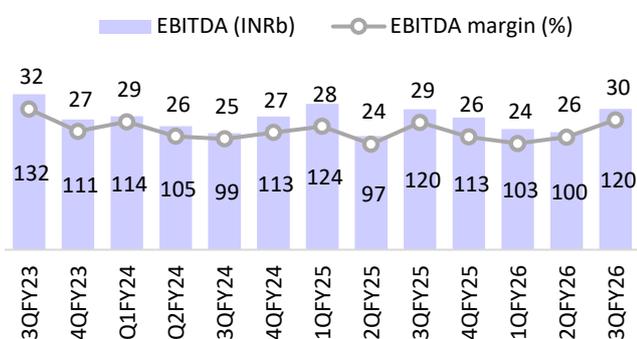
Source: Company, MOFSL

Exhibit 2: Gross generation and power sold



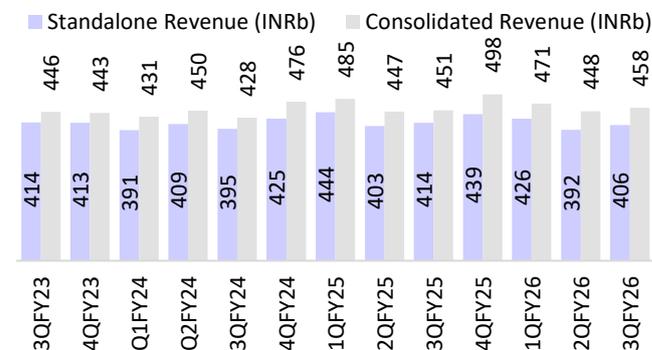
Source: Company, MOFSL

Exhibit 3: Standalone EBITDA & EBITDA margin



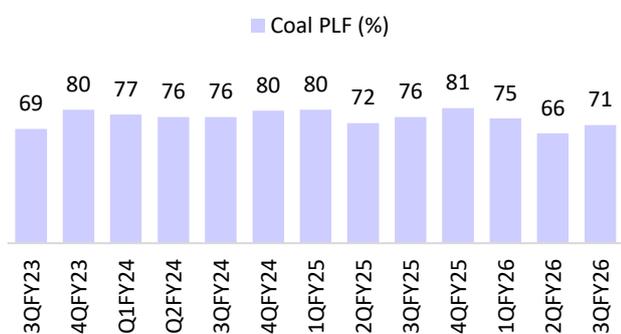
Source: Company, MOFSL

Exhibit 4: Standalone and consolidated revenue



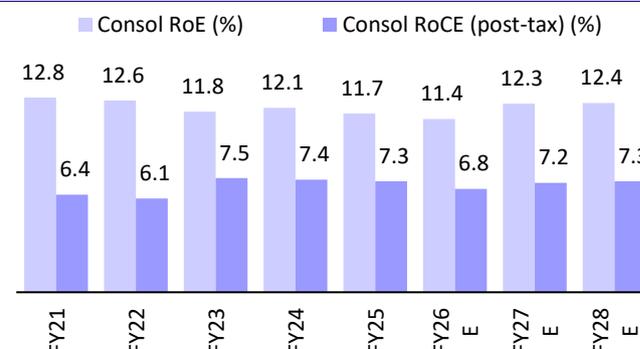
Source: Company, MOFSL

Exhibit 5: Coal PLF (%)



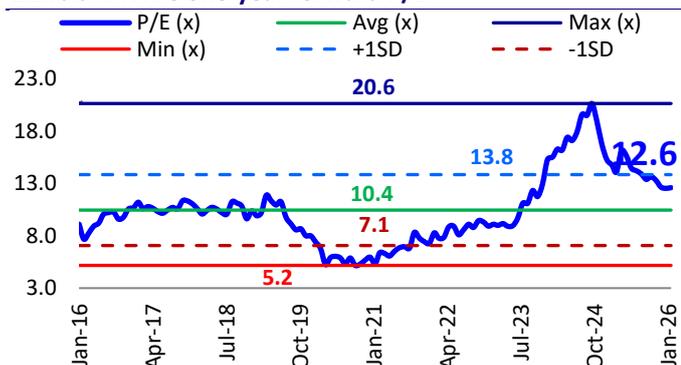
Source: Company, MOFSL

Exhibit 6: Consolidated RoE and RoCE (post-tax)



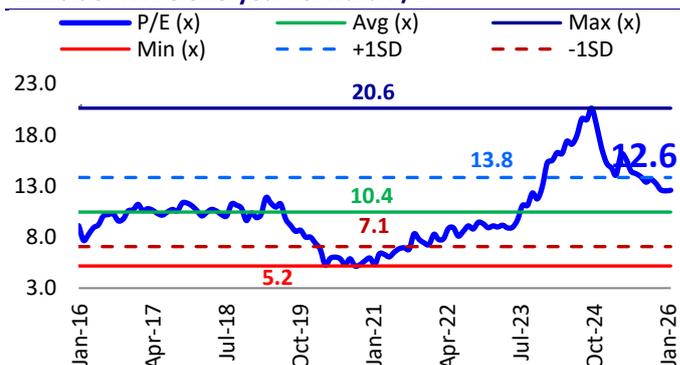
Source: Company, MOFSL

Exhibit 7: NTPC one-year forward P/E



Source: Company, MOFSL

Exhibit 8: NTPC one-year forward P/B



Source: Company, MOFSL

Financials and valuations

Consolidated Income Statement						(INR m)
Y/E March	FY23	FY24	FY25	FY26E	FY27E	FY28E
Net Sales	1,762,072	1,785,009	1,881,381	1,896,375	2,154,519	2,277,873
Change (%)	32.8	1.3	5.4	0.8	13.6	5.7
Total Expenses	1,277,283	1,287,537	1,335,725	1,363,023	1,539,026	1,584,400
EBITDA	484,789	497,472	545,655	533,352	615,493	693,474
Depn. & Amortization	147,923	162,036	174,012	186,568	206,576	233,590
EBIT	336,866	335,436	371,643	346,784	408,918	459,884
Net Interest	105,835	119,407	131,681	122,951	137,301	157,009
Other income	17,692	26,650	27,244	54,847	47,897	47,988
PBT before EO	248,723	242,679	267,207	278,680	319,513	350,863
Regulatory inc./ (exp)	-4,131	10,002	37,019	37,964	0	0
EO expense/ (inc.)	0	0	0	0	0	0
PBT after EO	231,377	265,061	299,846	316,644	319,513	350,863
Tax	67,961	68,092	82,452	76,532	77,493	85,512
Rate (%)	29.4	25.7	27.5	24.2	24.3	24.4
JV	7,798	16,356	22,137	22,137	24,937	27,437
Reported PAT	169,126	208,119	234,225	256,668	259,243	283,186
Minority	2,088	5,206	5,307	5,581	7,714	9,601
Adjusted PAT	167,038	185,737	201,585	218,704	259,243	283,186
Change (%)	1.9	11.2	8.5	8.5	18.5	9.2

Consolidated Balance Sheet						(INR m)
Y/E March	FY23	FY24	FY25	FY26E	FY27E	FY28E
Share Capital	96,967	96,967	96,967	96,967	96,967	96,967
Reserves	1,373,265	1,510,126	1,743,745	1,915,720	2,092,237	2,286,624
Net Worth	1,470,232	1,607,093	1,840,712	2,012,687	2,189,203	2,383,591
Minority Interest	39,305	44,130	70,515	76,097	83,811	93,412
Total Loans	2,210,924	2,350,403	2,475,751	2,771,263	3,095,233	3,415,279
Deferred Tax Liability	117,522	140,619	180,546	180,546	180,546	180,546
Capital Employed	3,837,981	4,142,245	4,567,524	5,040,592	5,548,793	6,072,828
Gross Block	3,392,828	3,745,108	4,050,958	4,597,674	5,077,840	5,718,367
Less: Accum. Deprn.	988,584	1,155,772	1,336,592	1,523,160	1,729,736	1,963,326
Net Fixed Assets	2,404,244	2,589,336	2,714,366	3,074,513	3,348,104	3,755,041
Capital WIP	891,790	876,645	1,008,593	1,016,839	1,023,382	888,138
Goodwill	0	0	0	0	0	0
Investments	139,348	158,846	197,036	229,173	264,110	301,547
Curr. Assets	1,034,372	1,165,440	1,312,208	1,386,295	1,589,675	1,806,199
Inventories	142,404	180,191	187,223	143,204	156,987	159,937
Account Receivables	327,511	346,372	347,507	290,290	315,676	318,811
Cash and Bank Balance	49,485	68,473	114,571	251,929	416,141	626,579
Others	514,972	570,404	662,908	700,872	700,872	700,872
Curr. Liability & Prov.	631,773	648,022	664,679	666,228	676,479	678,098
Account Payables	113,562	113,380	111,600	113,149	123,399	125,018
Provisions & Others	518,211	534,642	553,080	553,080	553,080	553,080
Net Curr. Assets	402,599	517,419	647,529	720,066	913,196	1,128,101
Appl. of Funds	3,837,981	4,142,245	4,567,524	5,040,592	5,548,793	6,072,828

Financials and valuations

Ratios

Y/E March	FY23	FY24	FY25	FY26E	FY27E	FY28E
Basic (INR)						
EPS	17.2	19.2	20.8	22.6	26.7	29.2
Cash EPS	32.5	35.9	38.7	41.8	48.0	53.3
BV/Share	151.6	165.7	189.8	207.6	225.8	245.8
DPS	7.3	7.8	8.2	8.7	8.5	9.2
Payout (%)	42.1	40.5	39.7	38.7	31.9	31.4
Dividend yield (%)	2.0	2.2	2.3	2.5	2.4	2.6
Valuation (x)						
P/E	20.7	18.6	17.1	15.8	13.3	12.2
Cash P/E	11.0	9.9	9.2	8.5	7.4	6.7
P/BV	2.3	2.1	1.9	1.7	1.6	1.4
EV/EBITDA	11.7	11.6	10.8	11.3	10.1	9.1
Dividend Yield (%)	2.0	2.2	2.3	2.5	2.4	2.6
Return Ratios (%)						
RoE	11.8	12.1	11.7	11.4	12.3	12.4
RoCE (post-tax)	7.5	7.4	7.3	6.8	7.2	7.3
RoC (post-tax)	8.7	8.6	8.6	7.7	8.4	8.6
Working Capital Ratios						
Fixed Asset Turnover (x)	0.7	0.7	0.7	0.6	0.6	0.6
Asset Turnover (x)	0.5	0.4	0.4	0.4	0.4	0.4
Debtor (Days)	68	71	67	56	53	51
Inventory (Days)	29	37	36	28	27	26
Leverage Ratio (x)						
Net Debt/EBITDA	4.5	4.6	4.3	4.7	4.4	4.0
Debt/Equity	1.4	1.4	1.2	1.2	1.2	1.1

Consolidated Cash Flow Statement

Y/E March	FY23	FY24	FY25	FY26E	FY27E	FY28E
(INR m)						
EBITDA	484,789	497,472	545,655	533,352	615,493	693,474
WC	178,362	-84,854	-37,783	102,784	-28,918	-4,466
Others	-81,176	-55,712	-86,831	-76,532	-77,493	-85,512
Deferred taxes (net)	19,400	25,131	41,740	0	0	0
CF from Op. Activity	601,374	382,037	462,781	559,605	509,083	603,495
Capex	-218,332	-340,276	-453,852	-564,962	-496,710	-515,282
FCF	383,042	41,761	8,929	-5,357	12,373	88,213
Int & div income	17,692	26,650	27,244	54,847	47,897	47,988
Investments(subs/JVs)	-500	0	0	0	0	0
CF from Inv. Activity	17,192	26,650	27,244	54,847	47,897	47,988
Share capital	0	0	0	0	0	0
Borrowings	-109,745	139,479	125,348	295,511	323,971	320,046
Finance cost	-105,835	-119,407	-131,681	-122,951	-137,301	-157,009
Dividend	-70,301	-75,149	-79,997	-84,693	-82,727	-88,799
Others	-67,055	6,438	92,988	0	0	0
CF from Fin. Activity	-352,936	-48,639	6,658	87,867	103,942	74,237
(Inc)/Dec in Cash	36,253	22,895	42,831	137,358	164,212	210,438
Opening balance	44,581	49,485	68,473	114,571	251,929	416,141
Closing balance	49,485	68,473	114,571	251,929	416,141	626,579

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 and BSE enlistment no. 5028. 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 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 and is a member of Association of Portfolio Managers in India (APMI) for distribution of PMS products. Details of associate entities of Motilal Oswal Financial Services Ltd. are available on the website at <http://onlinereports.motilaloswal.com/Dormant/documents/Associate%20Details.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>. As per Regulatory requirements, Research Audit Report is uploaded on www.motilaloswal.com > MOFSL-Important Links > MOFSL Research Analyst Compliance Audit Report.

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

- 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
- 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
- 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.
- 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.
- 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 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.

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, enlistment as RA with Exchange 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
Mr. Neeraj Agarwal	022 40548085	na@motilaloswal.com
Mr. Siddhartha Khemka	022 50362452	po.research@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, BSE enlistment no. 5028, AMFI registered Mutual Fund Distributor and SIF Distributor: ARN : 146822. IRDA Corporate Agent – CA0579, APMI: APRN00233. 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.