

Fujiyama Power Systems

BSE SENSEX 77,470 S&P CNX 24,188



Bloomberg	UTLSOLAR IN
Equity Shares (m)	306
M.Cap.(INRb)/(USDb)	115.3 / 1.2
52-Week Range (INR)	404 / 171
1, 6, 12 Rel. Per (%)	20/87/-
12M Avg Val (INR M)	193

Financials & Valuations (INR b)

Y/E March	FY26	FY27E	FY28E
Sales	26.5	42.3	58.8
EBITDA	4.9	8.2	11.4
PAT	3.0	4.9	7.2
EBITDA %	18.5	19.5	19.5
EPS (INR)	9.9	15.9	23.4
EPS Gr. (%)	94.8	59.8	47.1
BV/Sh.(INR)	41.6	57.4	80.8

Ratios

Net D:E	0.2	0.2	(0.0)
RoE (%)	36.5	32.1	33.8
RoCE (%)	27.2	24.8	28.3

Valuations

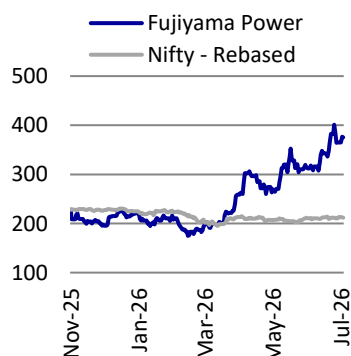
P/E (x)	37.8	23.7	16.1
P/BV (x)	9.1	6.5	4.7
EV/EBITDA (x)	24.1	14.4	10.1
FCF per share	(16.8)	0.2	13.6

Shareholding pattern (%)

As on	Mar-26	Dec-25
Promoter	86.8	86.8
DII	5.6	4.7
FII	1.9	2.5
Others	5.7	6.0

Note: FII includes depository receipts

Stock's performance (9-months)



CMP: INR376 TP: INR470 (+25%) Buy

ALMM compliance, rooftop solar tailwinds, and geographic expansion to fuel growth

- The implementation of the Approved List of Models and Manufacturers (ALMM) List-II has intensified India's structural shortage of domestically manufactured solar cells, with approved cell capacity (30GW) significantly lagging module capacity (174GW). UTLSOLAR is well-positioned to benefit through its captive 1GW Mono PERC (Passivated Emitter and Rear Cell) DCR cell facility, which ensures supply security, supports margins, and underpins the launch of its new 600W Mono PERC bifacial module (mitigating risk from TOPCon supply).
- Residential rooftop solar adoption under the PM Surya Ghar Muft Bijli Yojana (PMSGMBY) continues to accelerate, with over 4.5m installations and 7.5m applications, leaving a sizeable untapped opportunity of ~19GW (~5.4m households). Government-led initiatives, including digital outreach through the PMSGMBY platform, are expected to further improve consumer adoption, particularly in Tier-II and Tier-III markets. This expanding demand pipeline provides a strong growth runway for UTLSOLAR, supported by its integrated presence across the residential solar value chain.
- UTLSOLAR is strategically strengthening its presence across Assam, Karnataka, Telangana, and West Bengal, which collectively account for ~138GW of rooftop solar potential (22% of India's total) but currently contribute only ~6% of households covered under the PMSGMBY scheme. Rapid growth in household coverage, coupled with the Center's target of installing ~0.3m rooftop systems in West Bengal over the next two years, highlights the significant under-penetration and long-term growth opportunity in these markets.
- We expect UTLSOLAR to clock a CAGR of 49%/53%/53% in revenue/EBITDA/adj PAT during FY26-28. We reiterate our BUY rating with a TP of INR470 (based on 20x FY28E EPS).

Captive cell capacity positions UTLSOLAR to benefit from ALMM List-II

- India's solar manufacturing ecosystem is currently facing a structural imbalance between module capacity and domestic cell capacity, which has become more acute with the rollout of the ALMM List-II mandate effective 1st Jun'26. Under this rule, all government-backed, net-metered, and open-access solar projects must use panels built exclusively with domestically manufactured solar cells.
- India's approved module manufacturing capacity stands at ~174GW, while approved cell capacity is only ~30GW (~1/6th of module capacity). Domestic manufacturers produced ~11GW of DCR solar cells during Jan-Jun'26, implying ~76% capacity utilization. Assuming a similar run rate in 2HCY26, industry-wide DCR solar cell production is estimated at ~22GW for the full year.
- Even with aggressive capacity additions till CY28, domestic cell production is expected to support only ~55% of planned module capacity, with TOPCon remaining the tightest link because cell manufacturing is capital-intensive, technically complex, and takes 18-24 months to reach stable yields after commissioning.

Research Analyst: Sumant Kumar (Sumant.Kumar@MotilalOswal.com) | Yash Darak Yash.Darak@MotilalOswal.com

Research Analyst: Nirvik Saini Nirvik.saini@MotilalOswal.com) | Swapnil Upadhyay Swapnil.Upadhyayk@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.

- To resolve the shortcomings of ALMM – II, UTLSOLAR commissioned a 1 GW Mono PERC DCR solar cell manufacturing plant at Dadri, Uttar Pradesh (INR3b investment), built specifically to produce Mono PERC DCR cells for 100% captive consumption by its own panel lines.
- In line with this internal cell capability, the company plans to scale sales of Mono PERC bifacial modules, anchored by the launch of a new 600W Mono PERC bifacial solar panel. **This reflects a deliberate commercial strategy to route incremental client demand toward technologies backed by UTLSOLAR's secured in-house DCR cell supply rather than TOPCon, which would require reliance on a constrained open market or premium-priced imports.**
- Moreover, UTLSOLAR has announced an approved 1.2 GW TOPCon cell line at its Ratlam facility (expected to be set up by Jun'27), indicating that it is not overlooking the higher-efficiency TOPCon trend.
- **Overall, UTLSOLAR is well-positioned to benefit from ALMM List-II through its captive DCR cell manufacturing, ensuring supply security and supporting margins amid domestic cell shortages. The planned TOPCon cell expansion further aligns the company with the industry's shift toward higher-efficiency technologies, strengthening its long-term growth prospects.**

Robust rooftop solar demand pipeline drives growth outlook

- The Ministry of New and Renewable Energy (MNRE) underscores the accelerating adoption of residential rooftop solar in India under the PMSGMBY. Beneficiary households have already crossed 4.5m (45% of the target) within two years of the scheme's launch. The government now targets 7.5m (75%) households by Dec'26 and 10m households by Mar'27.
- **Under the PMSGMBY, the untapped opportunity translates into ~19 GW, representing ~5.4m households, with an average system size of 3.6kW per installation.**
- Further, the country's first 50 GW of solar panel capacity took 96 months to achieve, with the subsequent 50 GW added in just 36 months (led by PMSGMBY). **Moreover, solar panel capacity expanded from 100 GW to 150 GW in only 14 months, underscoring the increasing pace of renewable energy deployment.**
- The government is also strengthening the digital ecosystem around PMSGMBY through the launch of a dedicated WhatsApp bot. The WhatsApp-based interface is expected to simplify access to information, application tracking, subsidy-related queries, and customer support, thereby improving consumer awareness and reducing onboarding friction.
- These digital outreach initiatives are expected to further accelerate rooftop solar adoption, particularly in Tier-II and Tier-III markets, by making the scheme more accessible and user-friendly for households. Further, the center has stated a target of 100% solarization in India by CY47 (i.e. 250m households).
- **Overall, the sizeable untapped rooftop solar opportunity of ~19 GW and accelerating consumer adoption under PMSGMBY provide a strong growth runway for UTLSOLAR, given its integrated presence across the residential solar value chain.**

Expansion across special focus states to capture untapped demand

- UTLSOLAR is strategically expanding its presence across Assam, Karnataka, Telangana, and West Bengal, which have been identified as special focus states with substantial growth potential.
- The total rooftop solar potential in these states is 138GW (22% of the total potential of 638GW in the country), while the current contribution forms ~6% of the households covered under the scheme.
- The opportunity is supported by the growing number of households covered in these states. Karnataka/West Bengal/Telangana/Assam witnessed a growth of 62%/2.4x/2.3x/2.4x in the number of households covered since Oct'25 (source: PMSGMBY).
- **Despite this strong growth, these four states currently account for only ~6% of the total households covered under the scheme, while collectively representing ~138GW of rooftop solar potential—around 22% of India's total estimated rooftop solar potential of 638GW. This significant gap between current adoption and long-term potential presents a substantial growth opportunity for UTLSOLAR.**
- West Bengal is the third-largest state in terms of rooftop solar opportunity across India, accounting for a 9% share. However, its contribution remains negligible to the total households covered under the PMSGMBY.
- **However, West Bengal is set to emerge as a key growth market for residential rooftop solar, supported by the Union Power Ministry's target of installing approximately 0.3m rooftop solar systems over the next two years under the PMSGMBY.**
- On the other hand, large states like Uttar Pradesh/Maharashtra/Rajasthan/Odisha witnessed 2.8x/2.2x/3.1x/8.1x growth in households covered since Oct'25, which are already under covered/growth states for UTLSOLAR.
- **As rooftop solar adoption gains momentum, UTLSOLAR is well-positioned to strengthen its presence across these focus states, expanding its addressable rooftop solar opportunity by nearly 138GW.**

Valuation and view

- UTLSOLAR's growth is expected to be driven by three key levers: accelerating residential rooftop solar adoption under the PMSGMBY, strengthening backward integration through its captive 1GW DCR solar cell facility and planned 1.2GW TOPCon expansion, and channel expansion into high-potential states such as Assam, Karnataka, Telangana, and West Bengal (incremental opportunity of 638GW).
- Together, these initiatives provide the company with access to a sizeable untapped opportunity of ~19GW under PMSGMBY (till Mar'27), supporting sustained revenue growth, improved execution, and margin resilience over the medium term.
- **We expect UTLSOLAR to clock a CAGR of 49%/53%/53% in revenue/EBITDA/adj PAT during FY26-28. We reiterate our BUY rating with a TP of INR470 (based on 20x FY28E EPS).**

Exhibit 1: Cell capacity of key industry peers

Company Name	Existing cell capacity	Additions Planned	Cumulative Cell Capacity
Saatvik Green Energy	-	6	6
Waaree Energies (Domestic)	5.4	10	15.4
Premier Energies	3.6	7	10.6
Goldi Solar	-	16	16
Emmvee Solar	2.9	6	8.9
Vikram Solar	-	12	12
ReNew Photovoltaics	2.5	4	6.5
Reliance	-	20	20
Adani	4	6	10
Tata Power	4.9	-	4.9
Avaada Electro	6	6	12
Webosol	1.2	4.2	5.4
Insolation Energy	-	4.5	4.5
UTL Solar	1.0	1.2	2.2
Total	31.5	102.9	134.4

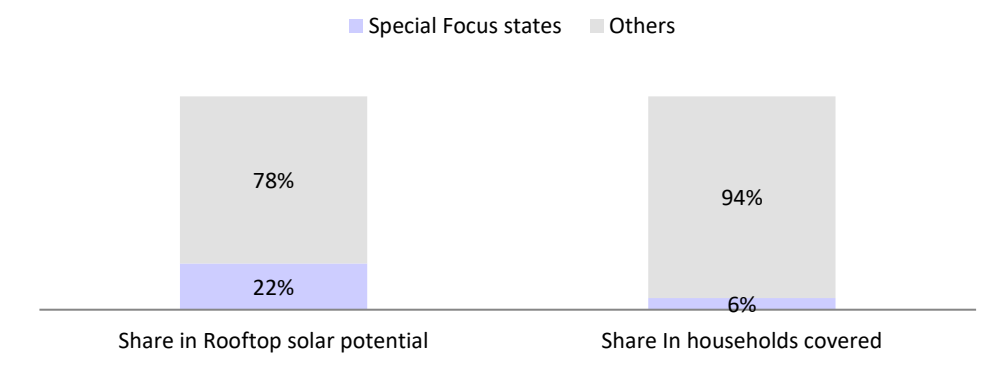
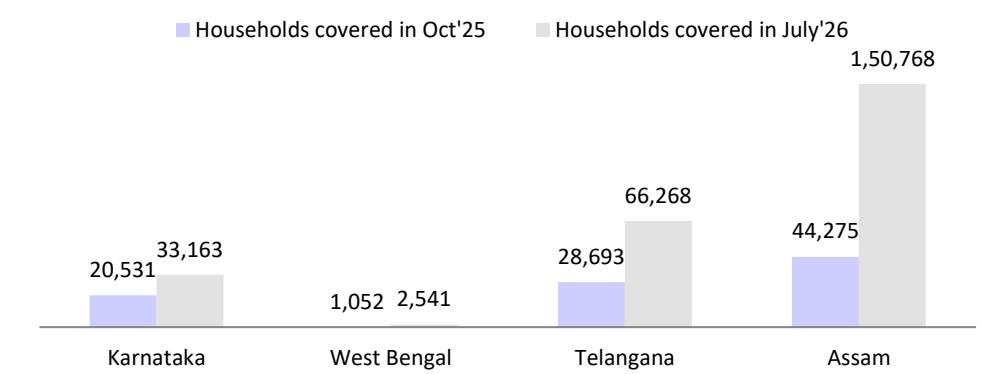
Exhibit 2: Significant growth headroom in special focus states

Exhibit 3: Households covered under special focus states have nearly doubled


Exhibit 4: Households covered under special focus states grew by 2.7x over Oct'25

Special focus states	Rooftop solar potential (GW)	Applications	Installations	Households covered	Installed capacity (MW)	Growth in Households covered
Karnataka	21	60,445	22,084	33,471	90	63%
West Bengal	56	43,566	2,577	2,680	8	155%
Telangana	28	84,750	52,014	66,896	192	133%
Assam	33	4,61,765	1,52,093	1,52,806	501	245%
Total	138	6,50,526	2,28,768	2,55,853	791	171%
% of total	22%	9%	6%	6%	6%	
share of West Bengal	9%	1%	0%	0%	0%	

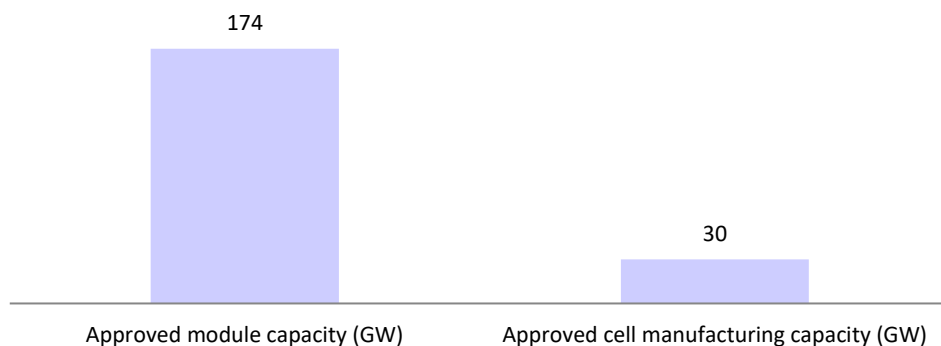
Exhibit 5: Other large states saw an increase of 2.5x in households covered over Oct'25

Other large states	Rooftop solar potential (GW)	Applications	Installations	Households covered	Installed capacity (MW)	Growth in Households covered
Uttar Pradesh	89	11,27,568	6,65,795	6,73,601	2,245	177%
Maharashtra	62	14,14,051	6,68,099	10,38,085	2,454	115%
Rajasthan	47	4,39,848	2,57,526	2,66,180	991	205%
Odisha	53	2,85,495	1,29,298	1,30,360	331	714%
Total	251	32,66,962	17,20,718	21,08,226	6,021	154%
% of total	39%	43%	45%	45%	44%	

Exhibit 6: Rooftop solar potential across states

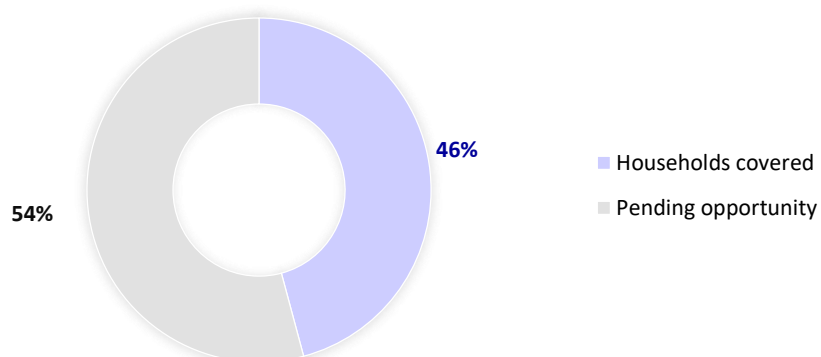
State	Rooftop solar potential	Share in total
Uttar Pradesh	89	14%
Maharashtra	62	10%
West Bengal	56	9%
Odisha	53	8%
Rajasthan	47	7%
Tamil Nadu	45	7%
Andhra Pradesh	41	6%
Bihar	38	6%
Assam	33	5%
Punjab	29	5%
Telangana	28	4%
Karnataka	21	3%
Kerala	19	3%
Delhi	16	3%
Madhya Pradesh	14	2%
Gujarat	13	2%
Haryana	11	2%
Jharkhand	8	1%
Uttarakhand	7	1%
Himachal Pradesh	6	1%
Chhattisgarh	2	0%
Total	638	100%

Exhibit 7: Gap in approved module and approved cell manufacturing capacity



Source: Company, MOFSL

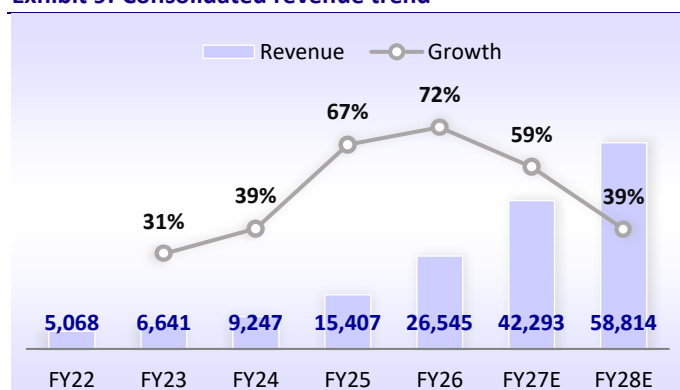
Exhibit 8: 46% of the target under PMSGMBY has been completed



Source: Company, MOFSL

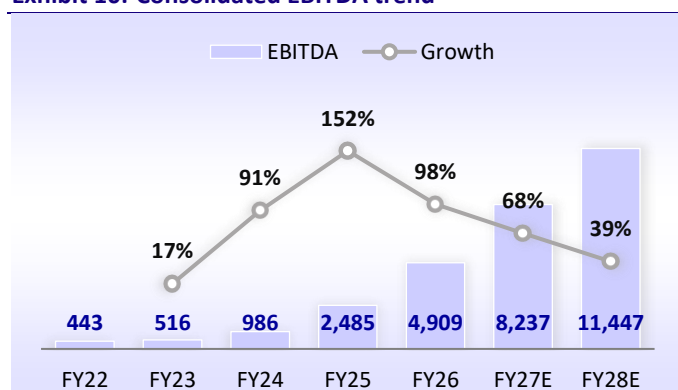
Story in charts

Exhibit 9: Consolidated revenue trend



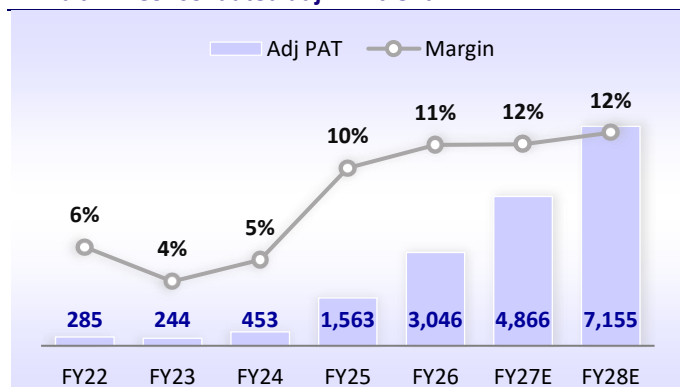
Source: Company, MOFSL

Exhibit 10: Consolidated EBITDA trend



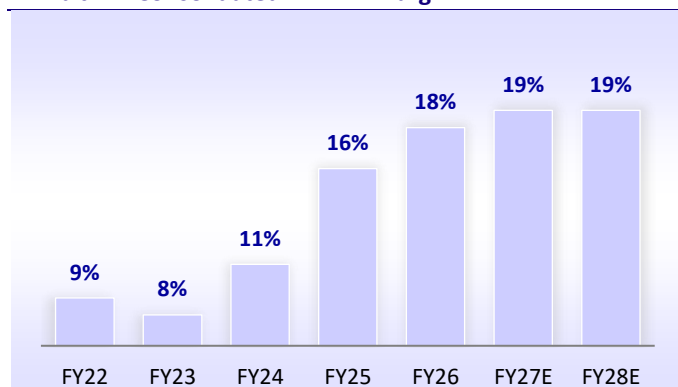
Source: Company, MOFSL

Exhibit 11: Consolidated adj PAT trend



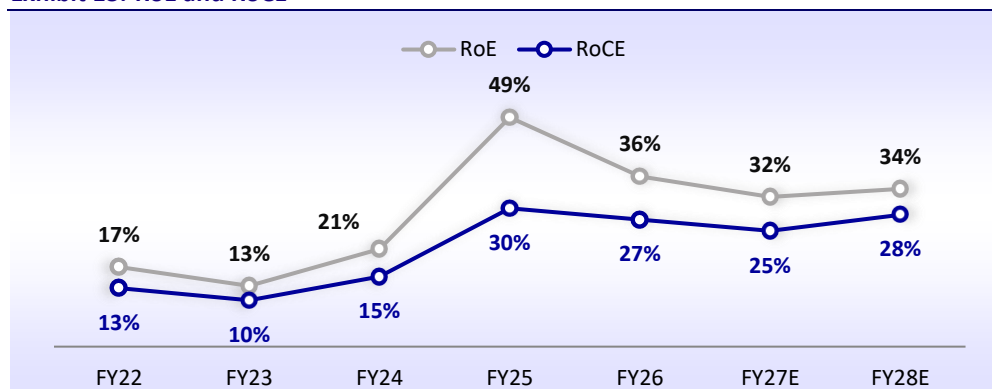
Source: Company, MOFSL

Exhibit 12: Consolidated EBITDA margin



Source: Company, MOFSL

Exhibit 13: RoE and RoCE



Source: Company, MOFSL

Financials and valuations

Consolidated - Income Statement							(INR M)
Y/E March	FY22	FY23	FY24	FY25	FY26	FY27E	FY28E
Total Income from Operations	5,068	6,641	9,247	15,407	26,545	42,293	58,814
Change (%)	25.1	31.0	39.2	66.6	72.3	59.3	39.1
COGS	3,826	5,178	7,175	11,419	19,247	30,036	41,378
Gross profit	1,242	1,463	2,072	3,988	7,298	12,257	17,436
Margin (%)	24.5	22.0	22.4	25.9	27.5	29.0	29.6
Employees Cost	328	436	506	699	1,118	1,886	2,518
Other Expenses	471	511	579	804	1,272	2,135	3,470
Total Expenditure	4,626	6,125	8,261	12,922	21,636	34,057	47,366
% of Sales	91.3	92.2	89.3	83.9	81.5	80.5	80.5
EBITDA	443	516	986	2,485	4,909	8,237	11,447
Margin (%)	8.7	7.8	10.7	16.1	18.5	19.5	19.5
Depreciation	14	59	128	180	442	1,158	1,382
EBIT	429	457	858	2,305	4,467	7,078	10,065
Int. and Finance Charges	46	154	257	268	436	636	561
Other Income	13	12	25	94	55	60	59
PBT bef. EO Exp.	396	315	626	2,131	4,086	6,502	9,562
EO Items	0	0	0	0	6	0	0
PBT after EO Exp.	396	315	626	2,131	4,080	6,502	9,562
Total Tax	110	71	173	568	1,039	1,637	2,407
Tax Rate (%)	27.8	22.6	27.6	26.6	25.5	25.2	25.2
Minority Interest	0	0	0	0	0	0	0
Reported PAT	285	244	453	1,563	3,041	4,866	7,155
Adjusted PAT	285	244	453	1,563	3,046	4,866	7,155
Change (%)	44.4	-14.6	85.9	245.1	94.8	59.8	47.1
Margin (%)	5.6	3.7	4.9	10.1	11.5	11.5	12.2

Consolidated - Balance Sheet							(INR M)
Y/E March	FY22	FY23	FY24	FY25	FY26	FY27E	FY28E
Equity Share Capital	136	136	245	280	306	306	306
Preference Capital	1,089	1,089	0	0	0	0	0
Total Reserves	585	706	2,150	3,688	12,427	17,293	24,448
Net Worth	1,811	1,931	2,395	3,968	12,733	17,599	24,755
Minority Interest	0	0	0	0	0	0	0
Total Loans	1,414	2,153	2,046	3,462	4,615	8,115	3,115
Deferred Tax Liabilities	-6	42	115	206	358	358	358
Capital Employed	3,219	4,126	4,556	7,637	17,707	26,072	28,228
Gross Block	462	1,796	2,383	3,987	6,978	10,538	14,598
Less: Accum. Deprn.	14	59	186	366	808	1,966	3,349
Net Fixed Assets	449	1,737	2,197	3,620	6,170	8,572	11,249
Goodwill on Consolidation	693	564	564	564	564	564	564
Capital WIP	0	80	0	0	2,013	3,500	4,000
Total Investments	0	21	0	0	0	0	0
Current Investments	0	0	0	0	0	0	0
Curr. Assets, Loans&Adv.	2,851	2,744	3,336	5,955	14,689	20,056	21,621
Inventory	1,781	1,872	2,321	3,826	9,098	11,587	12,977
Account Receivables	395	285	647	731	1,403	2,086	2,900
Cash and Bank Balance	0	1	149	206	1,608	4,586	3,244
Loans and Advances	675	585	219	1,192	2,579	1,797	2,500
Curr. Liability & Prov.	774	1,019	1,540	2,503	5,729	6,620	9,207
Account Payables	457	714	1,151	1,205	3,604	4,624	6,431
Other Current Liabilities	277	265	340	1,219	1,994	1,734	2,411
Provisions	40	41	49	80	131	262	365
Net Current Assets	2,077	1,724	1,796	3,452	8,960	13,437	12,414
Misc Expenditure	0	0	0	0	0	0	0
Appl. of Funds	3,219	4,126	4,556	7,637	17,707	26,072	28,228

Financials and valuations

Ratios

Y/E March	FY22	FY23	FY24	FY25	FY26	FY27E	FY28E
Basic (INR)							
EPS	0.9	0.8	1.5	5.1	9.9	15.9	23.4
Cash EPS	1.0	1.0	1.9	5.7	11.4	19.7	27.9
BV/Share	5.9	6.3	7.8	13.0	41.6	57.4	80.8
DPS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Payout (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Valuation (x)							
P/E	404	473	254	73.7	38	24	16
Cash P/E	385	380	198	66.1	33.1	19.1	13.5
P/BV	64	60	48	29.0	9.1	6.5	4.7
EV/Sales	23	18	13	7.7	4.5	2.8	2.0
EV/EBITDA	264	228	119	47.7	24.1	14.4	10.1
Dividend Yield (%)	0	0	0	0.0	0.0	0.0	0.0
FCF per share	-7	-4	2	-3.5	-16.8	0.2	13.6
Return Ratios (%)							
RoE	17.1	13.0	20.9	49.1	36.5	32.1	33.8
RoCE	12.6	9.9	15.0	29.7	27.2	24.8	28.3
RoIC	12.2	9.8	14.7	28.6	30.9	33.0	38.7
Working Capital Ratios							
Fixed Asset Turnover (x)	11.0	3.7	3.9	3.9	3.8	4.0	4.0
Asset Turnover (x)	1.6	1.6	2.0	2.0	1.5	1.6	2.1
Inventory (Days)	128	103	92	91	125	100	81
Debtor (Days)	28	16	26	17	19	18	18
Creditor (Days)	33	39	45	29	50	40	40
Leverage Ratio (x)							
Current Ratio	3.7	2.7	2.2	2.4	2.6	3.0	2.3
Interest Cover Ratio	9.2	3.0	3.3	8.6	10.2	11.1	17.9
Net Debt/Equity	0.8	1.1	0.8	0.8	0.2	0.2	0.0

Consolidated - Cash Flow Statement

(INR M)

Y/E March	FY22	FY23	FY24	FY25	FY26	FY27E	FY28E
OP/(Loss) before Tax	396	315	626	2,131	4,080	6,502	9,562
Depreciation	14	59	128	180	442	1,158	1,382
Interest & Finance Charges	46	154	257	268	402	576	503
Direct Taxes Paid	-147	-31	-75	-436	-1,125	-1,637	-2,407
(Inc)/Dec in WC	-892	282	-155	-1,987	-3,868	-1,499	-320
CF from Operations	-584	779	782	156	-69	5,101	8,720
Others	-1	0	72	25	40	0	0
CF from Operating incl EO	-585	779	855	181	-29	5,101	8,720
(Inc)/Dec in FA	-324	-1,371	-471	-1,148	-5,132	-5,047	-4,560
Free Cash Flow	-908	-593	384	-967	-5,161	54	4,160
(Pur)/Sale of Investments	-139	47	34	0	13	0	0
Others	5	2	-9	-33	-78	60	59
CF from Investments	-457	-1,323	-446	-1,181	-5,197	-4,987	-4,501
Issue of Shares	0	0	0	0	5,724	0	0
Inc/(Dec) in Debt	1,086	697	-110	1,460	1,153	3,500	-5,000
Interest Paid	-46	-145	-251	-256	-402	-636	-561
Dividend Paid	0	0	0	0	0	0	0
Others	0	-7	-7	-165	63	0	0
CF from Fin. Activity	1,040	545	-368	1,040	6,538	2,864	-5,561
Inc/Dec of Cash	-2	1	41	40	1,312	2,978	-1,342
Opening Balance	2	0	1	42	82	1,608	4,586
Other cash & cash equivalent	0		107	123	214	0	
Closing Balance	0	1	149	206	1,608	4,586	3,244

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

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.

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://online-reports.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).
- 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(ies) in the past 12 months.
- 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.
- MOFSL may have received compensation or other benefits from the subject company(ies) or third party in connection with the research report.
- MOFSL has not engaged in market making activity for the subject company.

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company at the end of the month immediately preceding the date of publication of the Research Report or date of the public appearance.

- received compensation/other benefits from the subject company in the past 12 months
- any other potential conflict of interests with respect to any recommendation and other related information and opinions.; however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.
- acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies)
- received compensation from the subject company in the past 12 months for investment banking / merchant banking / brokerage services or from other than said services.
- Served subject company as its clients during twelve months preceding the date of distribution of the research report.

The associates of MOFSL has not received any compensation or other benefits from third party in connection with the research report

Above disclosures include beneficial holdings lying in demat account of MOFSL which are opened for proprietary investments only. While calculating beneficial holdings, It does not consider demat accounts which are opened in name of MOFSL for other purposes (i.e holding client securities, collaterals, error trades etc.). MOFSL also earns DP income from clients which are not considered in above disclosures.

Analyst Certification

The views expressed in this research report accurately reflect the personal views of the analyst(s) about the subject securities or issues, and no part of the compensation of the research analyst(s) was, is, or will be directly or indirectly related to the specific recommendations and views expressed by research analyst(s) in this report.

Terms & Conditions:

This report has been prepared by MOFSL and is meant for sole use by the recipient and not for circulation. The report and information contained herein is strictly confidential and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent of MOFSL. The report is based on the facts, figures and information that are considered true, correct, reliable and accurate. The intent of this report is not recommendatory in nature. The information is obtained from publicly available media or other sources believed to be reliable. Such information has not been independently verified and no guaranty, representation of warranty, express or implied, is made as to its accuracy, completeness or correctness. All such information and opinions are subject to change without notice. The report is prepared solely for informational purpose and does not constitute an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments for the clients. Though disseminated to all the customers simultaneously, not all customers may receive this report at the same time. MOFSL will not treat recipients as customers by virtue of their receiving this report.

Disclaimer:

The report and information contained herein is strictly confidential and meant solely for the selected recipient and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent. This report and information herein is solely for informational purpose and may not be used or considered as an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments. Nothing in this report constitutes investment, legal, accounting and tax advice or a representation that any investment or strategy is suitable or appropriate to your specific circumstances. The securities discussed and opinions expressed in this report may not be suitable for all investors, who must make their own investment decisions, based on their own investment objectives, financial positions and needs of specific recipient. This may not be taken in substitution for the exercise of independent judgment by any recipient. Each recipient of this document should make such investigations as it deems necessary to arrive at an independent evaluation of an investment in the securities of companies referred to in this document (including the merits and risks involved), and should consult its own advisors to determine the merits and risks of such an investment. The investment discussed or views expressed may not be suitable for all investors. Certain transactions -including those involving futures, options, another derivative products as well as non-investment grade securities - involve substantial risk and are not suitable for all investors. No representation or warranty, express or implied, is made as to the accuracy, completeness or fairness of the information and opinions contained in this document. The Disclosures of Interest Statement incorporated in this document is provided solely to enhance the transparency and should not be treated as endorsement of the views expressed in the report. This information is subject to change without any prior notice. The Company reserves the right to make modifications and alternations to this statement as may be required from time to time without any prior approval. MOFSL, its associates, their directors and the employees may from time to time, effect or have effected an own account transaction in, or deal as principal or agent in or for the securities mentioned in this document. They may perform or seek to perform investment banking or other services for, or solicit investment banking or other business from, any company referred to in this report. Each of these entities functions as a separate, distinct and independent of each other. The recipient should take this into account before interpreting the document. This report has been prepared on the basis of information that is already available in publicly accessible media or developed through analysis of MOFSL. The views expressed are those of the analyst, and the Company may or may not subscribe to all the views expressed therein. This document is being supplied to you solely for your information and may not be reproduced, redistributed or passed on, directly or indirectly, to any other person or published, copied, in whole or in part, for any purpose. This report is not directed or intended for distribution to, or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MOFSL to any registration or licensing requirement within such jurisdiction. The securities described herein may or may not be eligible for sale in all jurisdictions or to certain category of investors. Persons in whose possession this document may come are required to inform themselves of and to observe such restriction. Neither the Firm, not its directors, employees, agents or representatives shall be liable for any damages whether direct or indirect, incidental, special or consequential including lost revenue or lost profits that may arise from or in connection with the use of the information. The person accessing this information specifically agrees to exempt MOFSL or any of its affiliates or employees from, any and all responsibility/liability arising from such misuse and agrees not to hold MOFSL or any of its affiliates or employees responsible for any such misuse and further agrees to hold MOFSL or any of its affiliates or employees free and harmless from all losses, costs, damages, expenses that may be suffered by the person accessing this information due to any errors and delays.

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/NCDX); 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.