

# India

# ADD (no change)

Sell 8 Buy 27 Hold 7 Consensus ratings\*: Current price: Rs4.604 Target price: Rs5.810 Previous target: Rs5,812 26.2% Up/downside: InCred Research / Consensus: 6.2% HROM.NS Reuters: HMCL IN Bloombera: US\$10,908m Market cap: Rs920,708m US\$47.3m Average daily turnover: Rs3994.7m Current shares o/s: 199.8m Free float: 65.2% \*Source: Bloomberg

#### Key changes in this note

- > FY25F-27F sales volume raised by 3%.
- FY25F-27F sales raised by 1-2%.
- FY25F-27F EBITDA raised by 1-2%.



		Source: Bloomberg		
Price performance	1M	ЗМ	12M	
Absolute (%)	(17.1)	(9.2)	48.4	
Relative (%)	(12.6)	(7.5)	25.7	

Major shareholders	% neid
Hero Group	34.8
LIC of India	8.5
ICICI Prudential Fund	3.6



#### **Pramod AMTHE**

T (91) 22 4161 1541

E pramod.amthe@incredresearch.com

### Ravi GUPTA

**T** (91) 02241611552

E ravi.gupta@incredresearch.com

# **Hero MotoCorp**

# Volume momentum to sustain

- 2Q EPS growth of 14% yoy & 7% qoq to Rs60.2 in line with our estimate but a 4% beat to BB consensus. The best of festivals-led revival started in Oct 2024.
- We upgrade sales volume by 3% for rural market recovery and new vehicle launches, but EPS upgrade limited to 1-2% for FY25F-27F.
- With the recent sell-off correcting the forward valuation to the 10-year mean level, we retain our ADD rating with an unchanged SOTP-based Rs5,810 TP.

#### **EBITDA** margin uptick provides comfort

Hero MotoCorp's (HMCL) 2QFY25 EBITDA grew by 14% yoy and 4% qoq to Rs15.2bn, a 3% miss to our estimate, due to lower ASP and higher other expenses (+9% qoq). Gross margin expansion (+100 qoq) was impressive. Sustained EBITDA margin uptick (+10bp qoq) to 14.5% provides comfort, where management indicated the electric vehicle or EV drag remains at around 200bp. PAT grew by 14% yoy and 7% qoq to Rs12bn, in line with our estimate and a 4% beat to the Bloomberg or BB consensus estimate.

#### Impressive festive demand & regaining 2W retail leadership

The month-long October festive demand helped HMCL to post an impressive 13% growth over the last festive season. Management highlighted that strong customer enquiries, supported by aggressive campaigns and promotional schemes, helped HMCL to end with record retail volume during the Diwali festival. The marriage season delayed to Nov 2024 holds a next trigger point for the industry. Festive season-led demand execution helped HMCL to regain its leadership position in 2W retail sales (Fig. 4). Management indicated the launch of scooters, EVs and premium bikes in coming quarters to gain market share. Management feels that exports, starting to the Philippines and Mexico, will help sustain the 40% growth witnessed in 1HFY25.

## Upgrade sales volume estimates by around 3%

Considering the new product line-up, refreshed distribution and the festive season-led industry momentum, we upgrade sales volume by around 3% for FY25F-27F. Increased 2W financing non-performing assets or NPAs are a cause of concern but may not be a drag on industry growth. With lower ASP in 2Q and elevated launch expenses in coming quarters, we limit our EBITDA and EPS upgrades to just 1-2% for FY25F-27F.

#### New launches to sustain excitement; maintain ADD rating

The sharp correction in the stock price in recent months surprised us, while a 2W stock sell-off is expected post festive season-led demand peaking. Considering that the rural demand revival has just started and HMCL has a strong new launch pipeline to sustain its momentum, we maintain our ADD rating on it with a SOTP-based target price of Rs5,810 (Rs5,812 earlier). Stock price correction leading to P/E & P/BV valuations easing to the 10-year mean provides comfort. Value unlocking from Ather Energy and Hero Fincorp IPOs can be an immediate trigger. Downside risk: Demand weakness leading to price discounts.

Financial Summary	Mar-23A	Mar-24A	Mar-25F	Mar-26F	Mar-27F
Revenue (Rsm)	338,086	372,283	436,238	488,744	538,424
Operating EBITDA (Rsm)	39,892	50,283	63,055	69,219	75,098
Net Profit (Rsm)	29,136	39,006	48,475	53,408	58,198
Core EPS (Rs)	145.8	195.2	242.5	267.2	291.1
Core EPS Growth	17.9%	33.8%	24.3%	10.2%	9.0%
FD Core P/E (x)	31.58	23.59	18.99	17.23	15.81
DPS (Rs)	100.1	140.1	160.1	180.2	200.2
Dividend Yield	2.17%	3.04%	3.47%	3.91%	4.34%
EV/EBITDA (x)	20.22	15.58	12.39	11.10	10.05
P/FCFE (x)	42.37	33.79	30.70	22.31	21.36
Net Gearing	(68.0%)	(76.1%)	(70.8%)	(71.2%)	(71.3%)
P/BV (x)	5.51	5.12	4.69	4.30	3.97
ROE	17.9%	22.5%	25.8%	26.0%	26.1%
% Change In Core EPS Estimates			0.71%	1.54%	0.88%
InCred Research/Consensus EPS (x)					

SOURCES: INCRED RESEARCH, COMPANY REPORTS



# Volume momentum to sustain

## Management conference-call highlights ➤

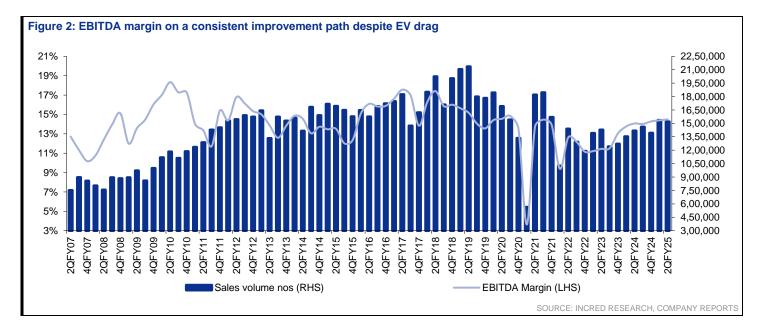
- Demand outlook: Management remains optimistic on the full-year growth rate.
  The growth in 2Q and the festive season was mainly led by rural market recovery, however management believes the bottom of the pyramid is yet to participate fully.
- Festive season 2024: Clocked festive season-led sales at 1.6m units, up 13% yoy, with a 16% revenue growth, which led to improvement in its market share to 31.6%. Retail sales of electric scooter VIDA stood at 11.6 units, with a market share of 5.4%. Healthy demand environment during the festive season led inventory correction to the normal level.
- After-market business: Reported revenue from parts, accessories and merchandise business at Rs.14.56bn, with a yoy growth of 7.5%.
- Financial highlights: In 1HFY25, cash from operations stood at Rs28.17bn, up 160% yoy. In 2Q, the EBITDA margin in ICE business improved by 160bp to 16.5%, driven by a mix improvement, lower raw material costs and cost savings initiatives. Management's endeavour is to maintain its EBITDA margin in the range of 14-16%.
- International business: In 1H, HMCL witnessed volume growth of 30% vs. the industry's 16% yoy growth in the export business. This led to an increase in its market share to 6.1% for the quarter, a gain of 60bp. In 2HFY25F, the company plans to ramp this up even further. Seeing good traction from markets like Colombia as they are at bottom-line turnaround. Traction also coming from Mexico. Markets that need a revival are Bangladesh, Turkey and Nigeria.
- Electric vehicle business: During the quarter, HMCL made an investment of Rs1.75bn .The company doubled its EV volume to 5,000 units per month during the quarter. Further scaled it up to 11,600 units during the festive season and gained a 20% market share in five cities and a 10% share in 10 cities during the period. Plans to launch new products, covering all price points later in the year and early next year.
- **EV motorcycle**: HMCL is working with Zero Motorcycles in developing electric motorcycles in the mid-weight segment.
- **Hero FinCorp:** The company's loan book grew by 16% yoy to form 26% of HMCL's sales volume in 2Q.
- **Touch points**: Plans to open 100 stores by the end of this year. Management indicated that Premia stores take 12 to 18 months to become sustainable, and the company has activated 58 stores till now.
- PLI scheme: Management believes that by FY26F, its EV scooters will be compliant with the production-linked incentive or PLI scheme and those benefits will start working.



Autos | India

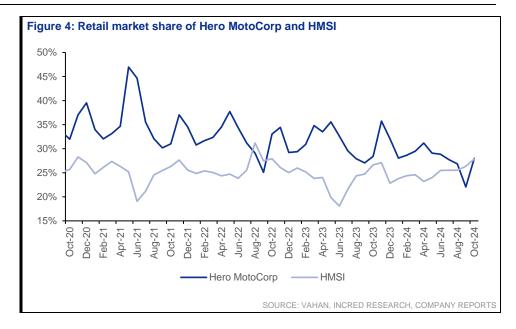
Hero MotoCorp | November 15, 2024

Y/E Mar (Rs m)	2QFY25	2QFY24	yoy % chg	1QFY25	qoq % chg	1HFY25	1HFY24	yoy % chg	Comments
Revenue	1,04,632	94,454	10.8	1,01,437	3.1	2,06,069	1,82,127	13.1	2% below our estimate.
Raw material costs	69,795	64,780	7.7	68,672	1.6	1,38,466	1,25,589	10.3	
RM costs as a % of revenue	67	69	(187.8)	68	(99.4)	67	69	(176.3)	130bps below our estimate.
EBITDA	15,159	13,283	14.1	14,598	3.8	29,756	25,345	17.4	3% below our estimate.
EBITDA margin (%)	14.5	14.1	42.5	14.4	9.7	14.4	13.9	52.4	
Depreciation & amortization	1,937	1,749	10.8	1,932	0.3	3,869	3,439	12.5	
EBIT	13,222	11,534	14.6	12,666	4.4	25,888	21,907	18.2	
Interest expenses	49	48	3.6	48	2.5	97	94	3.4	
Other income	2,830	2,483	14.0	2,317	22.1	5,147	4,705	9.4	7% above our estimate.
Pre-tax profit	16,003	13,970	14.6	14,935	7.2	30,937	26,517	16.7	
Tax	3,967	3,431	15.6	3,708	7.0	7,676	6,532	17.5	
Tax rate (%)	24.8	24.6	22.8	24.8	(3.8)	24.8	24.6	17.6	
Normalized net profit	12,035	10,538	14.2	11,226	7.2	23,262	19,985	16.4	1% below our estimate.
Exceptional items	-	-	-	-	nm	-	(1,200)	nm	
Other comprehensive income	-	-	nm	-	nm	-	-	-	
Reported net profit	12,035	10,538	14.2	11,226	7.2	23,262	18,785	23.8	
Normalized EPS (Rs)	60.2	52.7	14.2	56.2	7.2	116.5	100.1	16.4	
Volume (nos)	15,19,684	14,16,526	7.3	15,35,156	(1.0)	30,54,840	27,69,100	10.3	
Net realization (Rs)	68,851	66,680	3.3	66,076	4.2	67,457	65,771	2.6	
EBITDA/vehicle	9,975	9,377	6.4	9,509	4.9	9,741	9,153	6.4	



Motorcycles	2QFY25	2QFY24	YoY (%)	1QFY25	QoQ (%)	1HFY24	1HFY25	YoY (%
Splendor Family	8,99,640	8,38,469	7.3	9,31,208	(3.4)	16,84,560	18,30,848	8.7
Passion Family	59,320	1,08,526	(45.3)	61,178	(3.0)	1,63,378	1,20,498	(26.2
HF Deluxe	2,45,061	2,23,055	9.9	2,74,132	(10.6)	5,00,130	5,19,193	3.8
Glamour	45,367	77,903	(41.8)	61,934	(26.7)	1,17,011	1,07,301	(8.3)
Xtreme and Xtreme 125R	97,676	-	#DIV/0!	53,725	81.8	15,393	1,51,401	883.6
HD X440	3,143	-	na	2,826	11.2	18	5,969	na
Others	8,931	18,471	(51.6)	13,770	(35.1)	18,692	22,701	21.4
Total motorcycles	13,98,773	12,66,424	10.5	13,98,773	-	24,99,182	27,57,911	(9.4)
Scooters								
Maestro	-	2,832	(100.0)	30	(100.0)	8,123	30	(99.6
Pleasure	39,718	34,879	13.9	26,872	47.8	55,786	66,590	19.4
Destini 125	28,852	34,354	(16.0)	35,164	(18.0)	54,927	64,016	16.5
Xoom	12,820	23,131	(44.6)	12,764	0.4	57,372	25,584	(55.4)
Vida	15,976	2,320	588.6	10,559	51.3	5,800	26,535	357.5
Total scooters	97,366	97,516	(0.2)	85,389	14.0	1,82,008	1,82,755	(0.4)
Total 2W domestic	14,96,139	13,63,940	9.7	14,84,162	0.8	26,81,190	29,40,666	(8.8)
Exports	63,176	52,584	20.1	50,992	23.9	87,908	1,14,168	(23.0)
Gross Total	15,59,315	14,16,524	10.1	15,35,154	1.6	27,69,098	30,54,834	(9.4





	FY25	5F	FY26	SF.	FY27F		
Rs m	Old	New	Old	New	Old	New	
Sales Volume (nos)	61,48,581	63,10,201	67,01,006	68,75,396	71,74,389	74,04,453	
% change		2.6%		2.6%		3.2%	
Net Sales	4,31,644	4,36,238	4,83,653	4,88,744	5,30,234	5,38,424	
% change		1.1%		1.1%		1.5%	
EBITDA	62,599	63,055	68,140	69,219	74,245	75,098	
% change		0.7%		1.6%		1.1%	
PAT	48,134	48,475	52,598	53,408	57,693	58,198	
% change	·	0.7%		1.5%		0.9%	
-	SOURCE: INCRED RESEARCH, COMPANY REPOR						

Figure 6: Key drivers						
Key assumptions	FY22	FY23	FY24	FY25F	FY26F	FY27F
Vehicle Sales Volume (units)						
Motorcycle	46,27,585	49,59,707	51,26,006	58,74,443	63,95,516	68,66,070
Growth (%)	-13.2%	7.2%	3.4%	14.6%	8.9%	7.4%
Scooter	3,16,383	3,69,297	4,30,782	4,35,758	4,79,880	5,38,383
Growth (%)	-30.9%	16.7%	16.6%	1.2%	10.1%	12.2%
Total	49,43,968	53,29,004	55,56,788	63,10,201	68,75,396	74,04,453
Growth (%)	-14.6%	7.8%	4.3%	13.6%	9.0%	7.7%
Net Realization Per Vehicle (Rs.)						
Motorcycle	49,005	52,680	56,105	58,349	60,099	61,301
Growth (%)	6.6%	7.5%	6.5%	4.0%	3.0%	2.0%
Scooter	50,440	53,920	57,155	59,727	60,922	62,749
Growth (%)	6.0%	6.9%	6.0%	4.5%	2.0%	3.0%
Total	49,097	52,766	56,186	58,444	60,157	61,407
Growth (%)	6.5%	7.5%	6.5%	4.0%	2.9%	2.1%
Operating Matrix per Vehicle (Rs)						
Net Realisation	49,005	52,680	56,105	58,349	60,099	61,301
Growth (%)	6.6%	7.5%	6.5%	4.0%	3.0%	2.0%
Contribution	17,024	18,672	21,231	22,537	22,748	23,124
Growth (%)	9.0%	9.7%	13.7%	6.2%	0.9%	1.7%
EBITDA	33,667	39,892	50,283	63,055	69,219	75,098
Growth (%)	-16.2%	18.5%	26.0%	25.4%	9.8%	8.5%
EBITDA Margin (%)	11.5%	11.8%	13.5%	14.5%	14.2%	13.9%
Change (bp)	(154)	29	171	95	(29)	(21)
Net Profit	24,710	29,136	37,407	48,475	53,408	58,198
Growth (%)	-16.0%	17.9%	28.4%	29.6%	10.2%	9.0%
			SOURCE: INC	CRED RESEAF	RCH, COMPAN	Y REPORTS

Figure 7: Sum-of-the-parts or SOTP-based target price								
	Hero MotoCorp's stake	Value per share (Rs)						
Core Business		5,367						
Ather Energy	38%	162						
Hero FinCorp	40%	281						
SOTP-based valuation		5,810						
	SOURCE: INCRED RES	EARCH, COMPANY REPORTS						



Autos | India

5,367

Hero MotoCorp | November 15, 2024

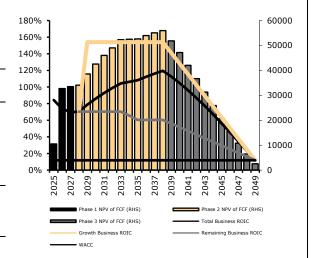
Economic Profit Valuation	Rs m	%	<b>Discounted Cash Flow Valuation</b>
Adjusted Opening Invested Capital	59,932	6	Value of Phase 1: Explicit (2025F to 2 Value of Phase 2: Value Driver (2028
NPV of Economic Profit During Explicit Period NPV of Econ Profit of Remaining Business (1,	80,970	9	2038F)
2)	2,45,117	26	Value of Phase 3: Fade (2039F to 20
NPV of Econ Profit of Net Inv. (Growth Business) (1, 3)	5,47,832	59	Terminal Value
Enterprise Value	9,33,850	100	Enterprise Value
Plus: Other Assets	0.0	0	FCF Growth Rate at end of Phase 1 i Valuation FCF Growth Rate at end of Phase 1 i
Less: Minorities	0.0	0	Price
Less: Net Debt (as on 15 Nov 2024)	-1,36,951	-15	
Equity Value	10,70,801	115	Returns, WACC and NPV of Free C
No. Shares (m)	199.5		180% <b>]</b>

Sensitivity	/ Table			Period			
			5	8	11	14	17
	9.8%		5,275	5,833	6,393	6,955	7,514
WACC	10.8%	Ì	4,905	5,378	5,846	6,306	6,758
₹	11.8%		4,574	4,976	5,367	5,746	6,111
-	12.8%		4,278	4,620	4,948	5,259	5,556
	13.8%		4 011	4 303	4 578	4 836	5 077

Performance Summary				Phase 2 Avg
	2025	2026	2027	(2028 - 2038)
Invested Capital Growth (%)	25.5	15.3	11.6	10.5
Operating Margin (%)	12.6	12.4	12.2	12.1
Capital Turnover (x)	8.9	7.9	7.6	7.3

**Discounted Cash Flow Valuation** Rs m % Value of Phase 1: Explicit (2025F to 2027F) 76674 8 Value of Phase 2: Value Driver (2028F to 2038F) 532596 57 Value of Phase 3: Fade (2039F to 2049F) 290898 31 Terminal Value 33674 Enterprise Value 100 FCF Growth Rate at end of Phase 1 implied by DCF Valuation 8 FCF Growth Rate at end of Phase 1 implied by Current 33

#### Returns, WACC and NPV of Free Cash Flow



Source: InCred Research

Per Share Equity Value

- 1. In periods following the Explicit Period i.e. Phase 2 and Phase 3
- 2. Remaining Business is defined as Capital as at the end of Phase 1 and capex = depreciation thereafter
- 3. Net Investment is defined as capex over and above depreciation after Phase 1

SOURCE: INCRED RESEARCH, COMPANY REPORTS

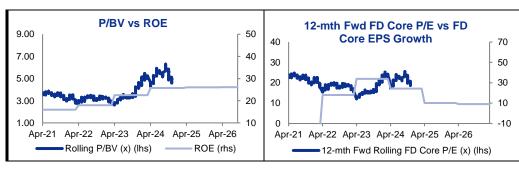






Autos | India Hero MotoCorp | November 15, 2024

# BY THE NUMBERS



Profit & Loss					
(Rs mn)	Mar-23A	Mar-24A	Mar-25F	Mar-26F	Mar-27F
Total Net Revenues	338,086	372,283	436,238	488,744	538,424
Gross Profit	77,607	93,952	115,788	127,066	138,953
Operating EBITDA	39,892	50,283	63,055	69,219	75,098
Depreciation And Amortisation	(6,570)	(7,114)	(7,980)	(8,581)	(9,173)
Operating EBIT	33,323	43,169	55,075	60,639	65,925
Financial Income/(Expense)					
Pretax Income/(Loss) from Assoc.					
Non-Operating Income/(Expense)	5,453	8,741	9,559	10,572	11,672
Profit Before Tax (pre-EI)	38,776	51,910	64,634	71,210	77,597
Exceptional Items					
Pre-tax Profit	38,776	51,910	64,634	71,210	77,597
Taxation	(9,640)	(12,904)	(16,158)	(17,803)	(19,399)
Exceptional Income - post-tax					
Profit After Tax	29,136	39,006	48,475	53,408	58,198
Minority Interests					
Preferred Dividends					
FX Gain/(Loss) - post tax					
Other Adjustments - post-tax					
Net Profit	29,136	39,006	48,475	53,408	58,198
Recurring Net Profit	29,136	39,006	48,475	53,408	58,198
Fully Diluted Recurring Net Profit	29,136	39,006	48,475	53,408	58,198

Cash Flow					
(Rs mn)	Mar-23A	Mar-24A	Mar-25F	Mar-26F	Mar-27F
EBITDA	39,892	50,283	63,055	69,219	75,098
Cash Flow from Invt. & Assoc.					
Change In Working Capital	(3,613)	9,088	(12,399)	(2,428)	(3,390)
(Incr)/Decr in Total Provisions	(940)	2,092	(77)	(2,800)	(1,900)
Other Non-Cash (Income)/Expense					
Other Operating Cashflow					
Net Interest (Paid)/Received	5,453	8,741	9,559	10,572	11,672
Tax Paid	(9,640)	(12,610)	(16,158)	(17,803)	(19,399)
Cashflow From Operations	31,152	57,595	43,980	56,760	62,081
Capex	(5,954)	(8,007)	(10,000)	(7,500)	(9,000)
Disposals Of FAs/subsidiaries					
Acq. Of Subsidiaries/investments					
Other Investing Cashflow	(3,485)	(22,357)	(4,000)	(8,000)	(10,000)
Cash Flow From Investing	(9,439)	(30,365)	(14,000)	(15,500)	(19,000)
Debt Raised/(repaid)					
Proceeds From Issue Of Shares					
Shares Repurchased					
Dividends Paid	(19,980)	(27,972)	(31,976)	(35,982)	(39,980)
Preferred Dividends					
Other Financing Cashflow	(30)	1,101	2		
Cash Flow From Financing	(20,010)	(26,871)	(31,975)	(35,982)	(39,980)
Total Cash Generated	1,704	359	(1,995)	5,278	3,101
Free Cashflow To Equity	21,714	27,230	29,980	41,260	43,081
Free Cashflow To Firm	21,714	27,230	29,980	41,260	43,081

SOURCE: INCRED RESEARCH, COMPANY REPORTS



Autos | India

Hero MotoCorp | November 15, 2024

# BY THE NUMBERS...cont'd

Balance Sheet					
(Rs mn)	Mar-23A	Mar-24A	Mar-25F	Mar-26F	Mar-27F
Total Cash And Equivalents	113,559	136,951	138,955	152,233	165,333
Total Debtors	27,982	27,034	35,855	40,171	45,729
Inventories	14,341	14,438	19,123	22,763	25,077
Total Other Current Assets	14,498	14,147	15,000	18,500	21,000
Total Current Assets	170,379	192,570	208,932	233,667	257,140
Fixed Assets	62,252	63,145	65,165	64,085	63,912
Total Investments					
Intangible Assets					
Total Other Non-Current Assets					
Total Non-current Assets	62,252	63,145	65,165	64,085	63,912
Short-term Debt					
Current Portion of Long-Term Debt					
Total Creditors	47,045	55,282	56,388	61,917	66,399
Other Current Liabilities	14,482	16,224	17,000	17,700	18,300
Total Current Liabilities	61,527	71,506	73,388	79,617	84,699
Total Long-term Debt					
Hybrid Debt - Debt Component					
Total Other Non-Current Liabilities					
Total Non-current Liabilities					
Total Provisions	4,054	4,348	4,348	4,348	4,348
Total Liabilities	65,581	75,854	77,736	83,965	89,047
Shareholders Equity	167,051	179,862	196,361	213,787	232,005
Minority Interests		<u> </u>			
Total Equity	167,051	179,862	196,361	213,787	232,005

Key Ratios					
	Mar-23A	Mar-24A	Mar-25F	Mar-26F	Mar-27F
Revenue Growth	15.6%	10.1%	17.2%	12.0%	10.2%
Operating EBITDA Growth	18.5%	26.0%	25.4%	9.8%	8.5%
Operating EBITDA Margin	11.8%	13.5%	14.5%	14.2%	13.9%
Net Cash Per Share (Rs)	568.22	685.10	695.12	761.55	827.08
BVPS (Rs)	835.88	899.76	982.30	1,069.47	1,160.60
Gross Interest Cover					
Effective Tax Rate	24.9%	24.9%	25.0%	25.0%	25.0%
Net Dividend Payout Ratio	68.6%	71.7%	66.0%	67.4%	68.7%
Accounts Receivables Days	27.54	26.97	26.31	28.39	29.12
Inventory Days	17.91	18.87	19.11	21.14	21.86
Accounts Payables Days	62.81	67.09	63.60	59.70	58.62
ROIC (%)	46.9%	56.4%	87.4%	73.6%	75.0%
ROCE (%)	23.3%	29.2%	33.6%	34.0%	34.1%
Return On Average Assets	13.0%	16.0%	18.3%	18.7%	18.8%

Key Drivers					
	Mar-23A	Mar-24A	Mar-25F	Mar-26F	Mar-27F
ASP (% chg, main prod./serv.)	7.3%	5.6%	3.2%	2.8%	2.3%
Unit sales grth (%, main prod./serv.)	7.8%	4.3%	13.6%	9.0%	7.7%

SOURCE: INCRED RESEARCH, COMPANY REPORTS



Autos | India Hero MotoCorp | November 15, 2024

#### **DISCLAIMER**

This report (including the views and opinions expressed therein, and the information comprised therein) has been prepared by Incred Research Services Private Ltd. (formerly known as Earnest Innovation Partners Private Limited) (hereinafter referred to as "IRSPL"). IRSPL is registered with SEBI as a Research Analyst vide Registration No. INH000011024. Pursuant to a trademark agreement, IRSPL has adopted "Incred Equities" as its trademark for use in this report.

The term "IRSPL" shall, unless the context otherwise requires, mean IRSPL and its affiliates, subsidiaries and related companies. 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 IRSPL and its affiliates/group companies to registration or licensing requirements within such jurisdictions.

This report is being supplied to you strictly on the basis that it will remain confidential. No part of this report may be (i) copied, photocopied, duplicated, stored or reproduced in any form by any means; or (ii) redistributed or passed on, directly or indirectly, to any other person in whole or in part, for any purpose without the prior written consent of IRSPL.

The information contained in this report is prepared from data believed to be correct and reliable at the time of issue of this report.

IRSPL is not required to issue regular reports on the subject matter of this report at any frequency and it may cease to do so or change the periodicity of reports at any time. IRSPL is not under any obligation to update this report in the event of a material change to the information contained in this report. IRSPL has not any and will not accept any, obligation to (i) check or ensure that the contents of this report remain current, reliable or relevant; (ii) ensure that the content of this report constitutes all the information a prospective investor may require; (iii) ensure the adequacy, accuracy, completeness, reliability or fairness of any views, opinions and information, and accordingly, IRSPL and its affiliates/group companies (and their respective directors, associates, connected persons and/or employees) shall not be liable in any manner whatsoever for any consequences (including but not limited to any direct, indirect or consequential losses, loss of profits and damages) of any reliance thereon or usage thereof.

Unless otherwise specified, this report is based upon reasonable sources. Such sources will, unless otherwise specified, for market data, be market data and prices available from the main stock exchange or market where the relevant security is listed, or, where appropriate, any other market. Information on the accounts and business of company(ies) will generally be based on published statements of the company(ies), information disseminated by regulatory information services, other publicly available information and information resulting from our research. While every effort is made to ensure that statements of facts made in this report are accurate, all estimates, projections, forecasts, expressions of opinion and other subjective judgments contained in this report are based on assumptions considered to be reasonable as of the date of the document in which they are contained and must not be construed as a representation that the matters referred to therein will occur. Past performance is not a reliable indicator of future performance. The value of investments may go down as well as up and those investing may, depending on the investments in question, lose more than the initial investment. No report shall constitute an offer or an invitation by or on behalf of IRSPL and its affiliates/group companies to any person to buy or sell any investments.

The opinions expressed are based on information which is believed to be accurate and complete and obtained through reliable public or other non-confidential sources at the time made (information barriers and other arrangements may be established, where necessary, to prevent conflicts of interests arising. However, the analyst(s) may receive compensation that is based on his/their coverage of company(ies) in the performance of his/their duties or the performance of his/their recommendations. In reviewing this report, an investor should be aware that any or all of the foregoing, among other things, may give rise to real or potential conflicts of interest. Additional information is, subject to the duties of confidentiality, available on request. The report is not a "prospectus" as defined under Indian Law, including the Companies Act, 2013, and is not, and shall not be, approved by, or filed or registered with, any Indian regulator, including any Registrar of Companies in India, SEBI, any Indian stock exchange, or the Reserve Bank of India. No offer, or invitation to offer, or solicitation of subscription with respect to any such securities listed or proposed to be listed in India is being made, or intended to be made, to the public, or to any member or section of the public in India, through or pursuant to this report.

The research analysts, strategists or economists principally responsible for the preparation of this research report are segregated from the other activities of IRSPL. Information barriers and other arrangements have been established, as required, to prevent any conflicts of interests.

The research analysts, strategists or economists principally responsible for the preparation of this research report are segregated from the other activities of IRSPL. Information barriers and other arrangements have been established, as required, to prevent any conflicts of interests.

IRSPL may have issued other reports (based on technical analysis, event specific, short-term views, etc.) that are inconsistent with and reach a different conclusion from the information presented in this report.

Holding of Analysts/Relatives of Analysts, IRSPL and Associates of IRSPL in the covered securities, as on the date of publishing of this report

Research Analyst or his/her relative(s) or InCred Research Services Private Limited or our associate may have any financial interest in the subject company.

Research Analyst or his/her relatives or InCred Research Services Limited or our associates may have actual or 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 the Research Report.

Research Analyst or his/her relative or InCred Research Services Private Limited or our associate entities may have any other material conflict of interest at the time of publication of the Research Report.





In the past 12 months, IRSPL or any of its associates may have:

- a) Received any compensation/other benefits from the subject company,
- b) Managed or co-managed public offering of securities for the subject company,
- c) Received compensation for investment banking or merchant banking or brokerage services from the subject company,
- d) Received compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company

We or our associates may have received compensation or other benefits from the subject company(ies) or third party in connection with the research report.

Research Analyst may have served as director, officer, or employee in the subject company.

We or our research analyst may engage in market-making activity of the subject company.

#### **Analyst declaration**

- The analyst responsible for the production of this report hereby certifies that the views expressed herein accurately and exclusively reflect his
  or her personal views and opinions about any and all of the issuers or securities analysed in this report and were prepared independently and
  autonomously in an unbiased manner.
- No part of the compensation of the analyst(s) was, is, or will be directly or indirectly related to the inclusion of specific recommendations(s) or view(s) in this report or based on any specific investment banking transaction.
- The analyst(s) has(have) not had any serious disciplinary action taken against him/her(them).
- The analyst, strategist, or economist does not have any material conflict of interest at the time of publication of this report.
- The analyst(s) has(have) received compensation based upon various factors, including quality, accuracy and value of research, overall firm
  performance, client feedback and competitive factors.

IRSPL and/or its affiliates and/or its Directors/employees may own or have positions in securities of the company(ies) covered in this report or any securities related thereto and may from time to time add to or dispose of, or may be materially interested in, any such securities.

IRSPL and/or its affiliates and/or its Directors/employees may do and seek to do business with the company(ies) covered in this research report and may from time to time (a) buy/sell the securities covered in this report, from time to time and/or (b) act as market maker or have assumed an underwriting commitment in securities of such company(ies), and/or (c) may sell them to or buy them from customers on a principal basis and/or (d) may also perform or seek to perform significant investment banking, advisory, underwriting or placement services for or relating to such company(ies) and/or (e) solicit such investment, advisory or other services from any entity mentioned in this report and/or (f) act as a lender/borrower to such company and may earn brokerage or other compensation. However, Analysts are forbidden to acquire, on their own account or hold securities (physical or uncertificated, including derivatives) of companies in respect of which they are compiling and producing financial recommendations or in the result of which they play a key part.

Recommendation F	Framework
Stock Ratings	Definition:
Add	The stock's total return is expected to exceed 10% over the next 12 months.
Hold	The stock's total return is expected to be between 0% and positive 10% over the next 12 months.
Reduce	The stock's total return is expected to fall below 0% or more over the next 12 months.
	turn of a stock is defined as the sum of the: (i) percentage difference between the target price and the current price and (ii) the forward net stock. Stock price targets have an investment horizon of 12 months.
Sector Ratings	Definition:
Overweight	An Overweight rating means stocks in the sector have, on a market cap-weighted basis, a positive absolute recommendation.
Neutral	A Neutral rating means stocks in the sector have, on a market cap-weighted basis, a neutral absolute recommendation.
Underweight	An Underweight rating means stocks in the sector have, on a market cap-weighted basis, a negative absolute recommendation.
Country Ratings	Definition:
Overweight	An Overweight rating means investors should be positioned with an above-market weight in this country relative to benchmark.
Neutral	A Neutral rating means investors should be positioned with a neutral weight in this country relative to benchmark.
Underweight	An Underweight rating means investors should be positioned with a below-market weight in this country relative to benchmark.