

Impact of macroeconomic environment on the automotive industry





Content

Economy overview

Rural Scenario

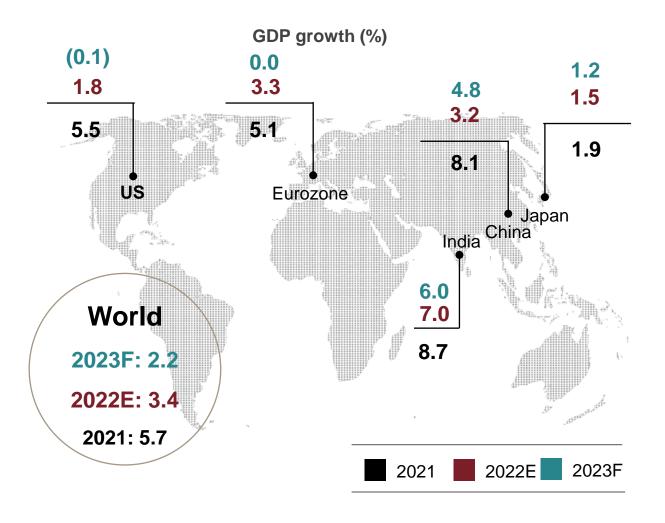
Indian automobile industry

Auto Components

Global scenario



Surprising resilience unlikely to last into 2023



- Highly anticipated global recession is yet to arrive
- Some resilience in global Q3 numbers
 - U.S. economy grew 2.6% on an annualized basis, positive consumption growth albeit at a slower pace
 - Eurozone economy surprised by growing at all, with output expanding by 0.8% annualized, with all major economies, including Germany, recording higher output.
 - China surprised on the upside as well, growing 3.9% on a year-on-year basis, boosted by net exports and government spending.
- However, sharp slowdown is all but inevitable, given the steepest rise in policy rates in four decades, ongoing geopolitical tensions, and energy supply constraints stemming from the Russia-Ukraine conflict
- o Inflation remains stubbornly high, especially in the advanced economies. While policy rates have been lifted this year by up to 300 basis points (in the U.S. and Canada, less so elsewhere), overall inflation is yet to peak.





Slowdown expected globally, downward revision from previous forecast

GDP Growth Forecasts

In annual percentage change

New forecas

		New fore	ecast	
	2022	2023	2024	2025
U.S.	1.8	(0.1)	1.4	1.8
Eurozone	3.3	(0.0)	1.4	1.5
Germany	1.8	(0.5)	1.0	1.3
France	2.5	0.2	1.6	1.5
Italy	3.8	(0.1)	1.4	1.2
Spain	4.6	0.9	1.9	2.5
U.K.	4.3	(1.0)	1.3	1.5
China	3.2	4.8	4.7	4.6
Japan	1,5	1.2	1.1	1.1
India*	7.0	6.0	6.9	6.9
Mexico	2.6	0.8	2.0	2.3
Brazil	2.9	0.5	2.0	2.2
South Africa	1.9	1.5	1.7	1.7
World	3.4	2.2	3.1	3.3

Change from previous CCC round

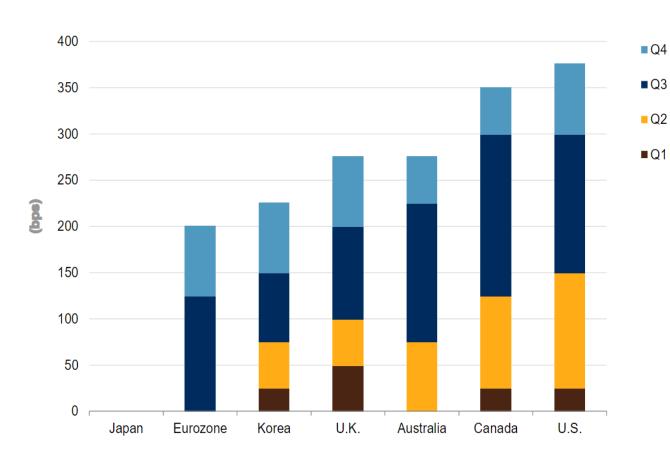
2022	2023	2024	2025
0.2	(0.3)	(0.2)	(0.1)
0.2	(0.3)	(0.3)	(0.2)
0.3			0.0
0.1	0.0		0.0
0.4	0.0	(0.1)	0.1
0.1			(0.1)
1.0	(0.6)	(0.1)	(0.1)
0.5	0.1	(0.1)	(0.1)
(0.1)		(0.3)	
(0.3)	(0.5)	0.2	0.0
0.5	0.0	(0.0)	0.1
0.4	(0.1)	0.0	0.0
(0.1)	(0.1)	(0.1)	0.0
0.3	(0.2)	(0.1)	(0.1)





Inflation stickiness

Policy Rate Hikes In 2022--G20 Advanced Economies



- Large and frequent rate rises were needed to bring the monetary policy stance beyond neutral in order to slow activity, bring price pressures down and bolster credibility.
 - While inflation fighting is largely a domestic affair, there is an international spillover dimension as well, given the the U.S. dollar as the main global safe haven and U.S. Treasury as the main global reserve asset
- Thus, in effect, that other countries import U.S. inflation through their weaker currencies and that local central banks need to do more to bring local inflation under control.
- On the real side, tighter monetary policy means lower output and inflation than would otherwise be required.
- The macro policy mix will become an increasingly important issue as inflation remains elevated and output slows.



India landscape



Macroeconomic outlook

Segments (% Growth Y-o-Y)	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY22	FY23E	FY24P
GDP (% Growth Y-o-Y)	7.4	8.0	8.3	6.8	6.5	3.7	(6.6)	8.7	7.0	6.0
CAD (as a % of GDP)	-1.3	-1.1	-0.7	-1.8	-2.1	-0.9	+0.9	-1.2	-3.2	-2.4
10-year G-sec yield (end- March)	7.7	7.5	6.8	7.6	7.5	6.2	6.2	6.8	7.5	7.0
PFCE	6.4	7.9	8.1	6.2	7.1	5.2	(6.0)	7.6	7.0	6.2
Crude oil (\$/barrel/CY)	99	52	44	54.5	71	64	42.3	70.4	98-103	80-85
Inflation (Consumer Price Index)	5.9	4.9	4.5	3.6	3.4	4.8	6.2	5.5	6.8	5.0

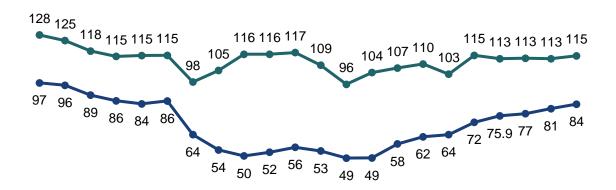
Note: Crude oil prices are for CY

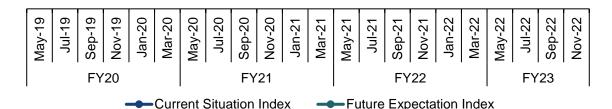
Source: CSO, RBI and CRISIL estimates

Perceptions and Expectations on the General Economic Situation

Consumer Confidence Index

- Current situation index has shown further improvement in Nov backed bybetter perceptions on general economic situation, employment and household income
- Future Expectation index has also shown some improvement after remaining near stagnant during the current fiscal

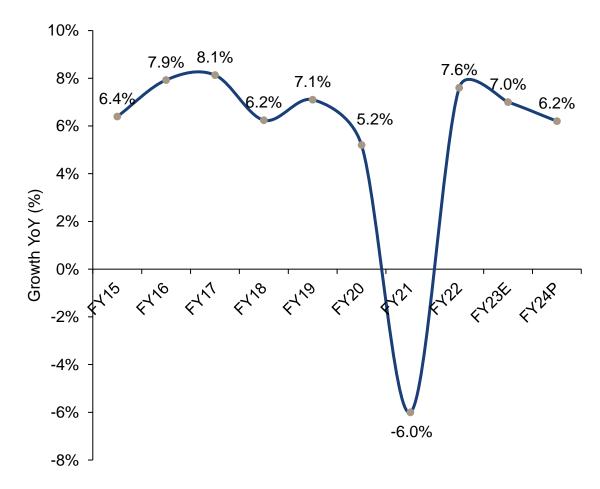




Source: CRISIL MI&A, RBI, NCAER

Market Intelligence & Analytics

PFCE to continue its momentum in FY23, albeit at a slower pace

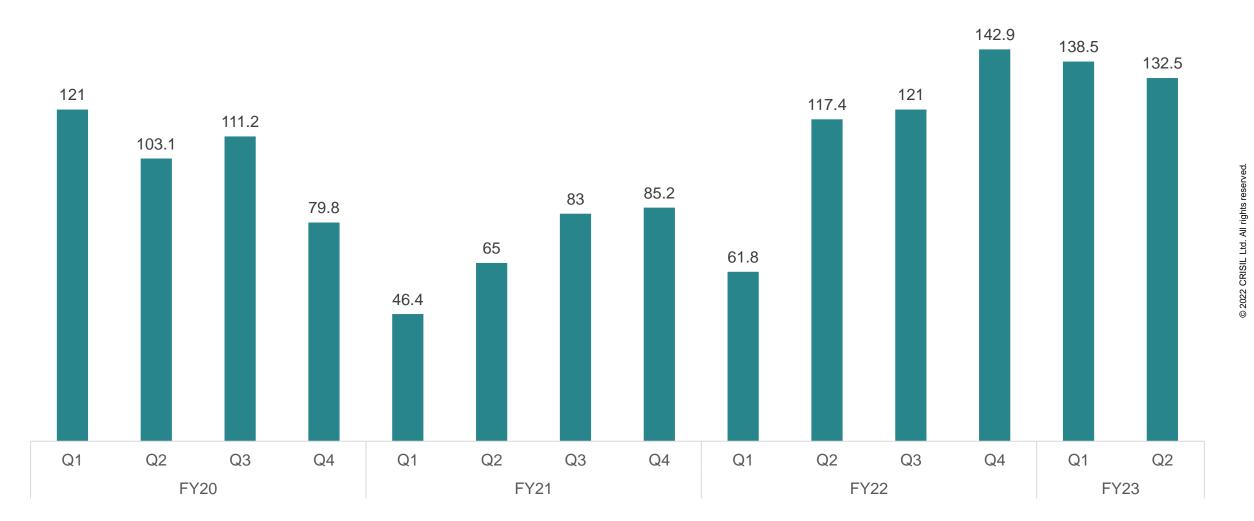


NOTE: New series considered with a base year - 2011-12

Source: CRISIL MI&A



Business Confidence Index is on shaky grounds(1/2)

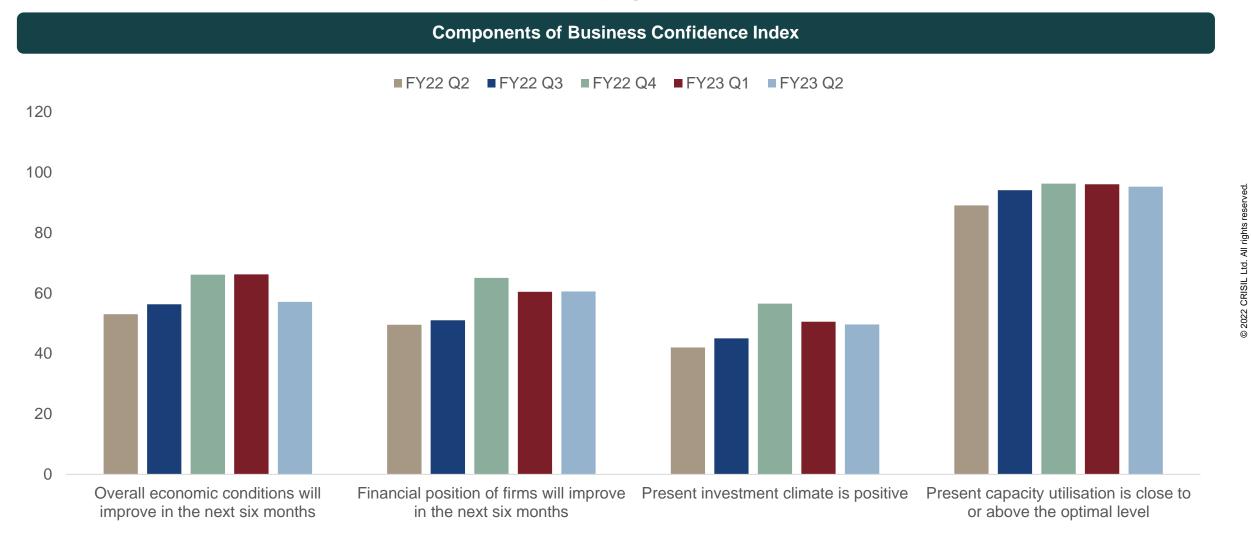


Source: CRISIL MI&A, NCAER

Market Intelligence & Analytics



Business Confidence Index is on shaky grounds (2/2)



Source: CRISIL MI&A, NCAER

Market Intelligence & Analytics



Consulting

High frequency parameters

Segments	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Core Sectors																					
Coal	9%	7%	7%	19%	21%	8%	15%	8%	5%	8%	7%	0%	29%	25%	31%	11%	8%	12%	4%	12%	
Crude Oil	-2%	-6%	-2%	-3%	-2%	-2%	-2%	-2%	-2%	-2%	-2%	-3%	-1%	5%	-2%	-4%	-3%	-2%	-2%	-1%	
Natural Gas	25%	20%	21%	19%	21%	28%	26%	24%	20%	12%	13%	8%	6%	7%	1%	0%	-1%	-2%	-4%	-1%	
Petroleum Refinery Products	31%	15%	2%	7%	9%	6%	14%	4%	6%	4%	9%	6%	9%	17%	15%	6%	7%	7%	-3%	-9%	
Fertilizers	4%	-10%	2%	1%	-3%	0%	0%	3%	4%	-2%	-1%	15%	9%	23%	8%	6%	12%	12%	5%	6%	
Steel	494%	55%	25%	9%	5%	3%	5%	1%	-1%	3%	6%	4%	-1%	15%	3%	6%	2%	7%	4%	11%	
Cement	607%	12%	8%	22%	36%	11%	15%	-3%	13%	14%	5%	9%	8%	26%	19%	2%	2%	12%	-4%	29%	
Electricity	39%	7%	8%	11%	15%	1%	3%	2%	3%	1%	4%	5%	11%	22%	16%	2%	1%	11%	0%	12%	
Auto-offtake																					
Two Wheelers	NM	26%	3%	-2%	-15%	-17%	-25%	-34%	-11%	-21%	-27%	-21%	15%	250%	23%	10%	16%	14%	2%	16%	3%
Cars	NM	113%	118%	45%																	
Uvs + Vans	NM	118%			8%	-41%	-27%	-19%	-13%	-8%	-7%	-4%	-4%	185%	19%	11%	21%	91%	29%	31%	8%
Three Wheelers	NM	-49%	-9%	41%	60%	54%	19%	-7%	25%	-10%	-2%	-1%	51%	2162%	184%	73%	65%	73%	70%	102%	37%
Auto-Vaahan																					
2W	171%	155%	18%	28%	7%	-9%	-6%	0%	-19%	-13%	-10%	-4%	42%	214%	20%	-9%	9%	18%	71%	29%	-3%
Cars+Uvs	913%	171%	43%	63%	39%	22%	-11%	-19%	-10%	-10%	-7%	-5%	31%	209%	41%	-3%	8%	11%	48%	21%	10%
Others																					
PMI Manufacturing	55.5	50.8	48.1	55.3	52.3	53.7	55.9	57.6	55.5	54	54.9	54	54.7	54.6	53.9	56.4	56.2	55.1	55.3	55.7	57.8
IIP Overall	134%	29%	14%	11%	12%	3%	4%	1%	1%	1%	2%	2%	7%	20%	12%	2%	-1%	3%	-4%	7%	
Diesel consumption	106%	1%	-2%	11%	16%	0%	-6%	-8%	2%	-6%	-1%	7%	8%	32%	24%	8%	13%	14%	6%	19%	7%
Rail freight (NTKM)	87%	56%	27%	21%	20%	9%	21%	15%	8%	11%	11%	18%	21%	19%	18%	18%	13%	10%	1%	4%	6%
Bitumen consumption	343%	12%	-23%	5%	16%	-2%	5%	-22%	-18%	-2%	3%	-12%	-8%	6%	22%	1%	51%	16%	-11%	39%	
Total credit	6%	5%	6%	6%	7%	7%	7%	7%	10%	7%	8%	9%	10%	12%	12.0%	13%	14%	15%	132%	131%	12%
Industry credit	0%	1%	0%	1%	2%	2%	4%	4%	8%	6%	11%	7.00%	10%	11%	11.0%	12%	16%	15%	12%	13%	
-Micro and Small	4%	5%	6%	9%	10%	10%	12%	13%	20%	20%	29%	32.00%	46%	49%	48%	44%	41%	45%	39%	20%	
-Medium	50%	52%	61%	66%	63%	49%	49%	49%	87%	75%	82%	55.00%	52%	50%	49%	34%	30%	29%	22%	30%	
-Large	-2%	-2%	-3%	-3%	-1%	-1%	1%	0%	1%	0%	4%	0.00%	1%	2%	3%	5%	11%	8%	6%	11%	

Market Intelligence Source: CSO, RBI and CRISIL estimates & Analytics

Note* - (based on MOSPI classification)

Hi-Frequency indicators How are they shaping?

Mobility indicators and Vaccination progress



Mobility Indicators in first half of October month indicate that most segments such as grocery and pharmacy, parks, retail and recreation and transit stations showing mixed trends

Fuel and Power consumption



Power consumption witnessed a 10% year on year growth in December 2022. Diesel consumption witnessed growth of 6.5% in December 2022 on y-o-y basis while petrol consumption saw a growth of 5.9% for the same

Freight movement & Transporter Profitability



E-waybill generation has been at daily average of 1.73mn in December 2022 compared to November 2022 daily average of 1.71mn for intra-city



STU Tendering Tracker

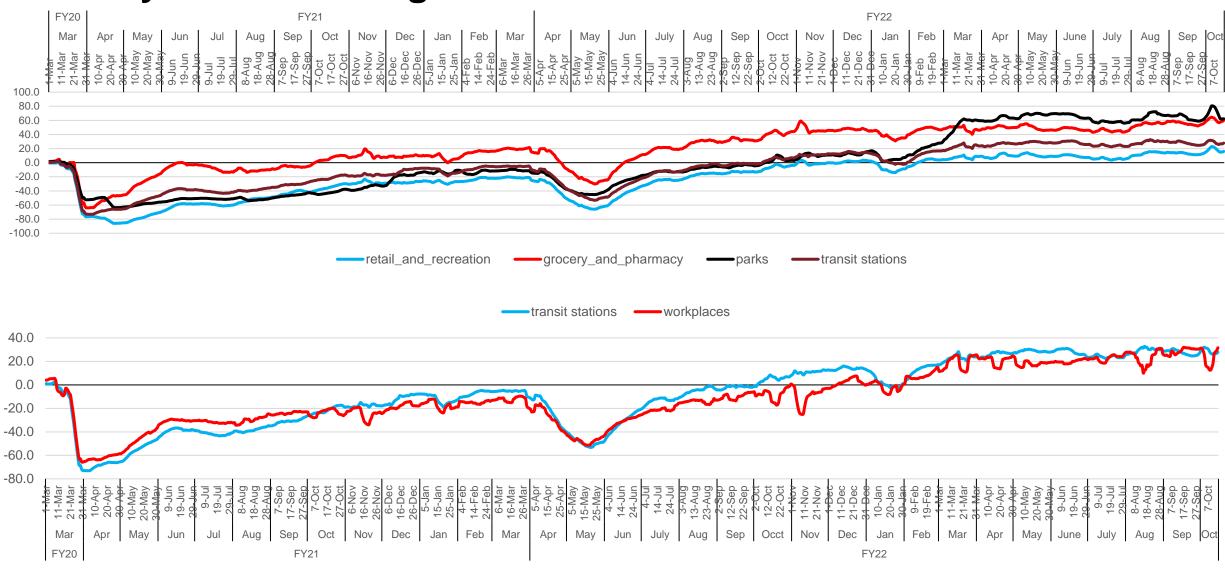


Interactions indicate STU tenders from states like Maharashtra, Karnataka, Uttar Pradesh, Tamil Nadu, Telangana, Kerala can see delivery spread over the next 12-15 months





Mobility indicators-segmental

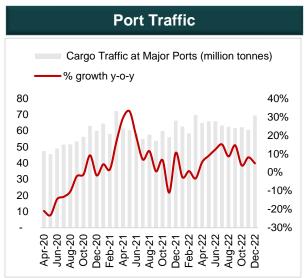


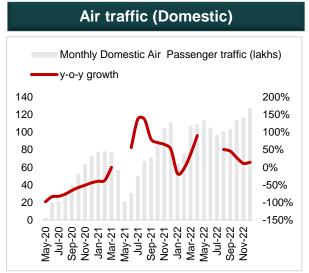
Market Intelligence & Analytics

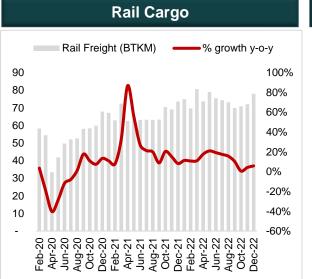
CRISIL

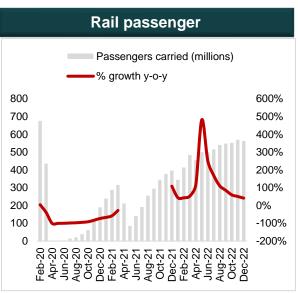
An S&P Global Company

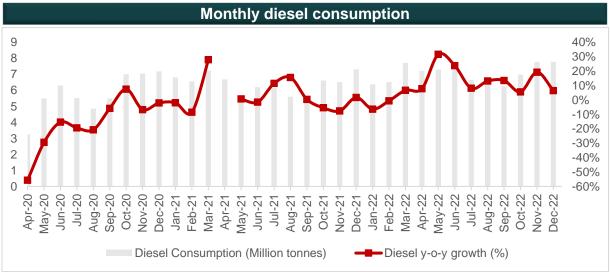
Overall mobility

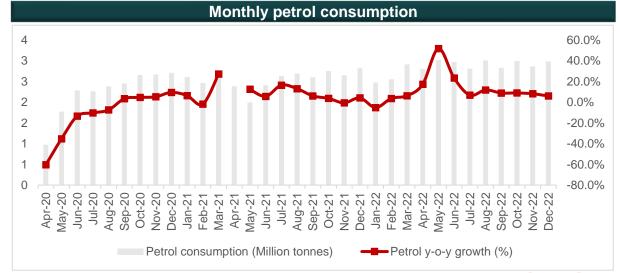








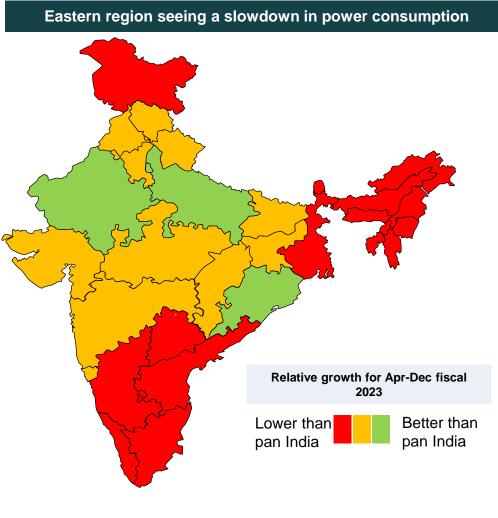


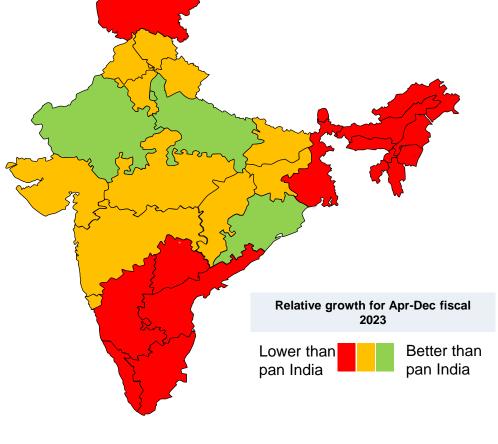


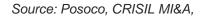
Market Intelligence & Analytics

Source: IPA, DGCA, Indian Railways, PPAC, NPCI, RBI, CRISIL MI&A,

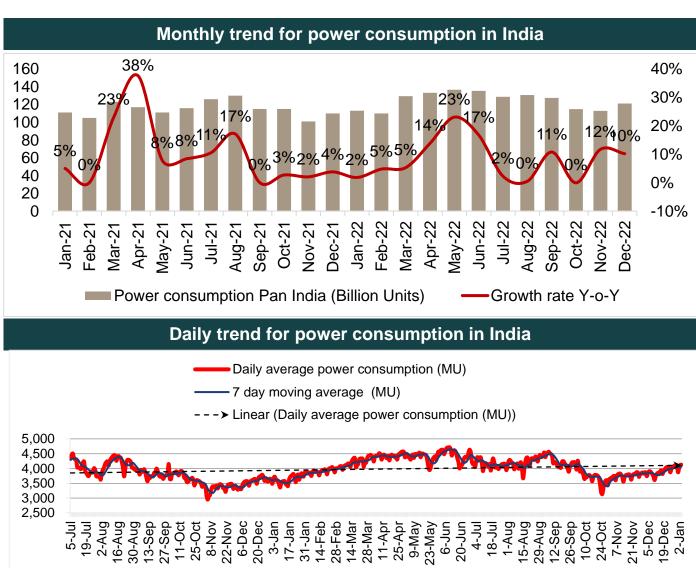
Power Consumption: North region performed better than other regions in Apr-Dec FY23 period



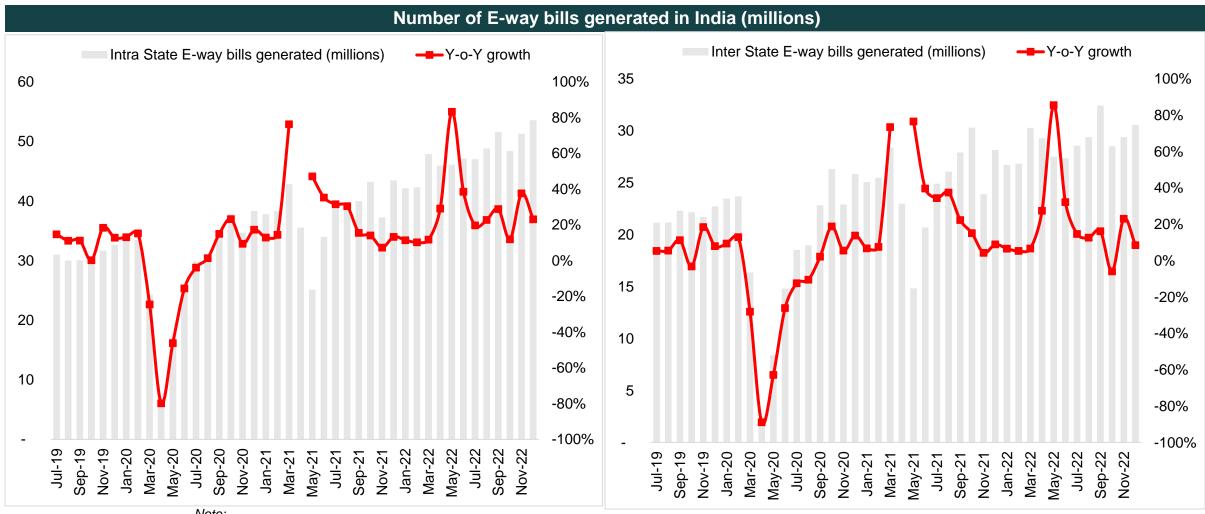




Market Intelligence & Analytics



E-waybill trend

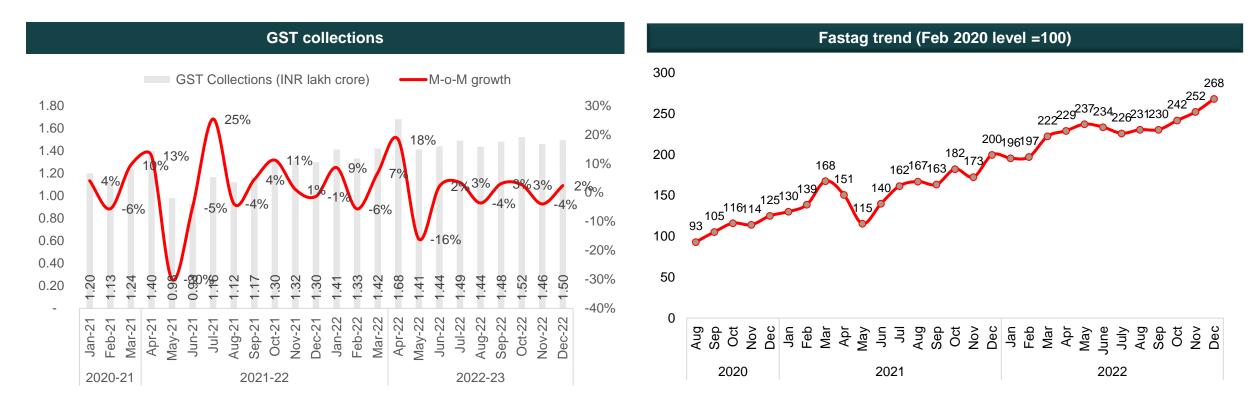


Note:

1. y-o-y growth not mentioned in Apr-21 as values are not meaningful due to low base effect of previous year caused by the nationwide lockdown. 2.Agri, last mile distribution and market load operations do not come under ambit of E-way bill hence the E-way bills mentioned here may not represent the entire Market Intelligence movement of goods in the country

3. Source: GST Network, CRISIL MI&A

December's GST revenues stands at about ₹1.50 trillion

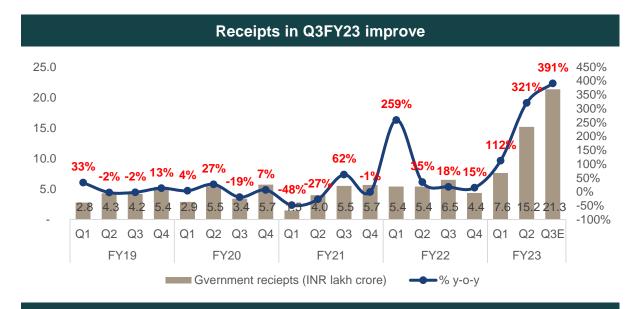


- Fastag recorded an index of 268 in December 2022, the highest level till now
- India's Goods and Services Tax (GST) revenues rose to nearly ₹1.5 lakh crore in December 2022, 15% higher than a year ago and
 2.5% over November's collections that had marked a three-month low.

Source: GST Network, NPCI, CRISIL MI&A

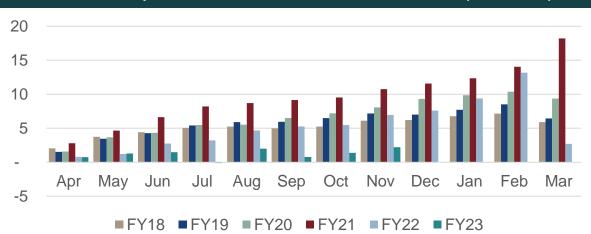


FY23

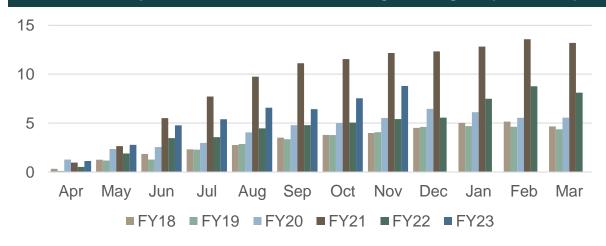




FY21









FY19

FY20

Capital Expenditure (INR trn)

——% growth y-o-y of total expenditure

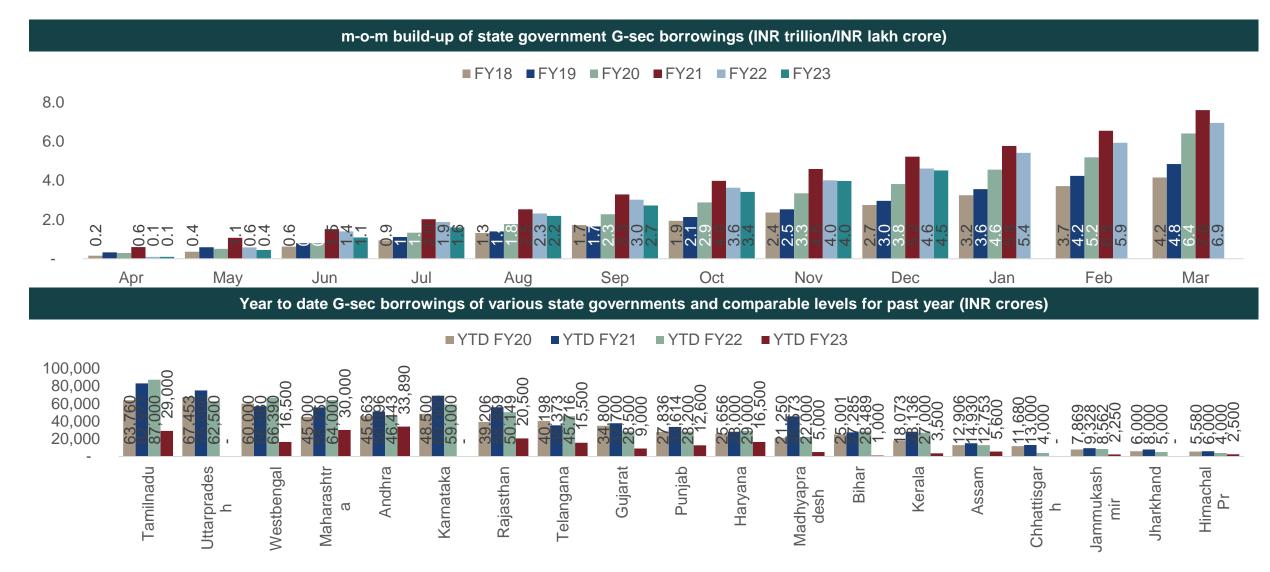
Note: exp and receipts data based on 2 months data Source: RBI, CONTROLLER GENERAL OF ACCOUNTS, MINISTRY OF FINANCE, CRISIL MI&A

FY22

Revenue Expenditure (INR trn)



State government borrowings similar to last year



Rural Scenario and government spending



Improvement in farm sentiment with healthy rabi expectation

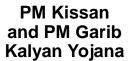
Agri scenario lends support to a struggling economy



Government support



- Kharif CVI expected to be stable in FY23 even though production was slightly higher on-year.
- Unseasonal rainfall in October led to deterioration in crop quality which resulted in lower crop prices and thus impacting farm income
- Positive sentiments for the upcoming rabi season on account of healthy reservoir levels





- Allocation for PM Kisan in the union budget for fiscal 2023 has been Rs.68000 cr, which is only marginally higher than the revised estimates for fiscal 2022, at Rs.65000 cr.
- After 28 months since the scheme started, the Union cabinet has decided to allow PM Kisan Anna Yojana (PMGKAY) to sunset.
- The government will instead grant free rations for a whole year under the National Food Security Act (NFSA) from January 1, 2023.

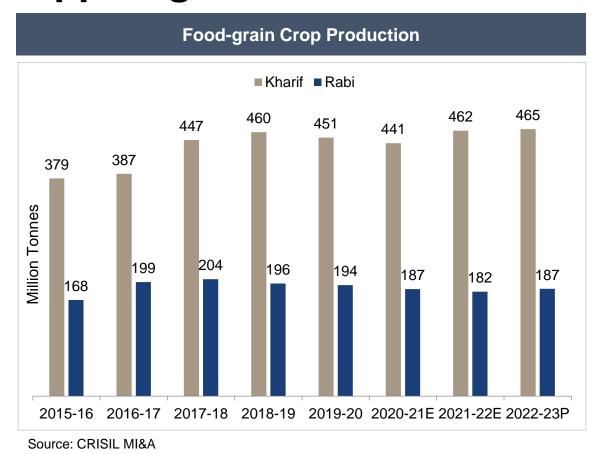
MNREGA

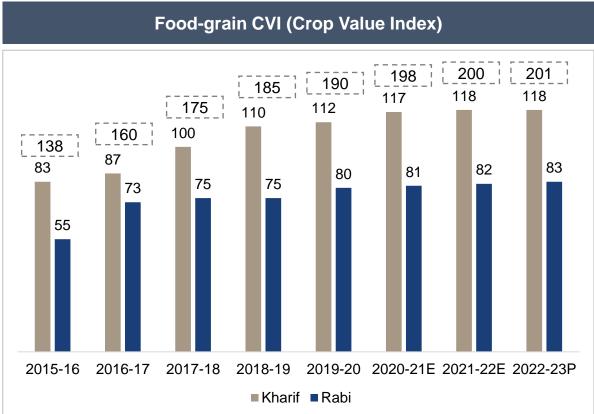


- In fiscal 2022, Rs 106,443 cr was spent in comparison to Rs. 98,000 cr allocated
- For fiscal 2023, allocated expenditure has been cut by 25% to Rs.73,000 cr.
- As of 30 Dec 2022, around 48.7 million households have worked under the scheme in FY23, while the full-year number in last fiscal was around 72.6 million



Healthy reservoir levels to result in better crop output and support good income from rabi crop





Source: CRISIL MI&A:

Note: CVI- Crop value index, CVI has been indexed to 100 at 2011-12 Total CVI



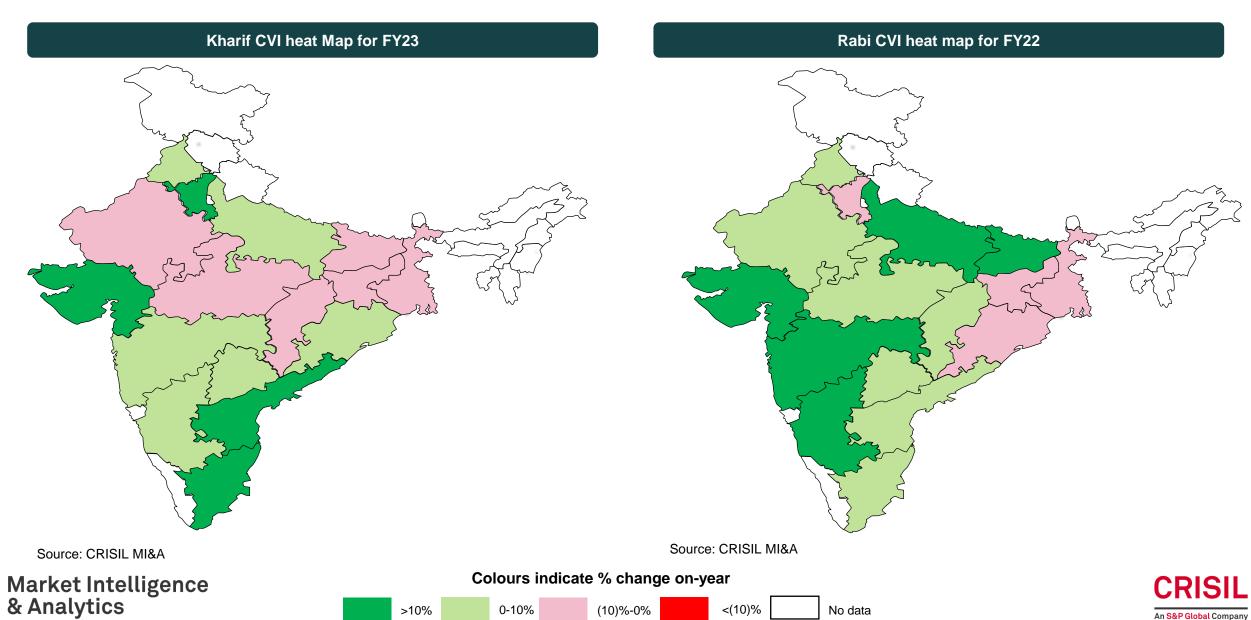
Rabi production is expected to be higher than previous year on account of good weather conditions & healthy reservoir levels



Higher prices on-year to result in improved income levels as compared to the previous year

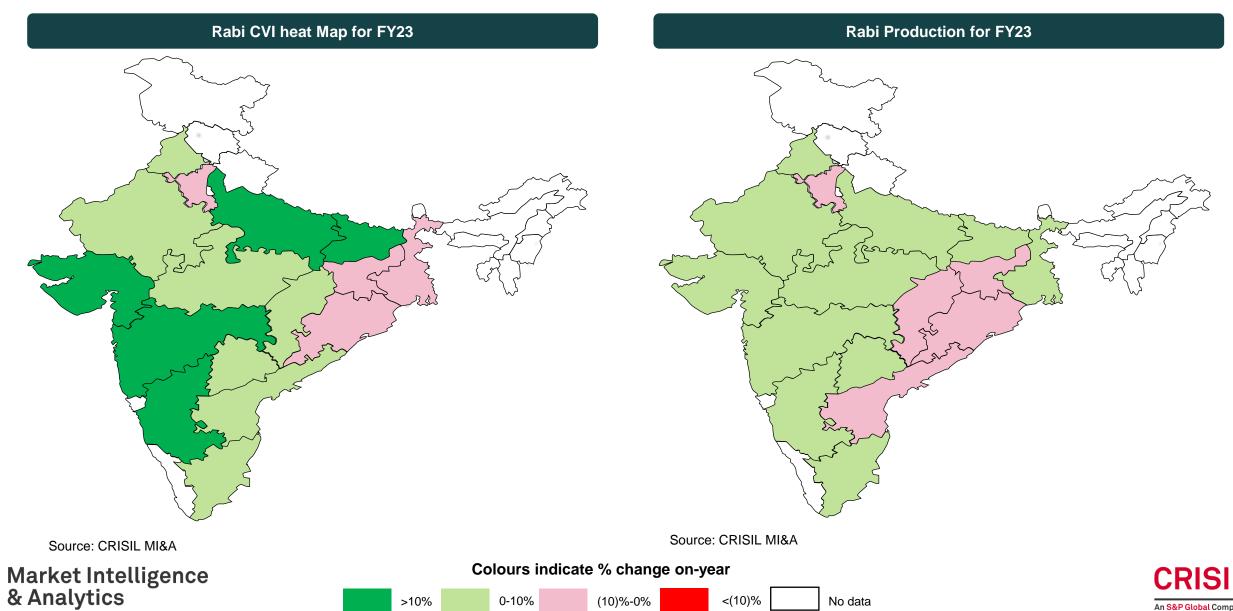


State wise Crop Value Index



<(10)% No data

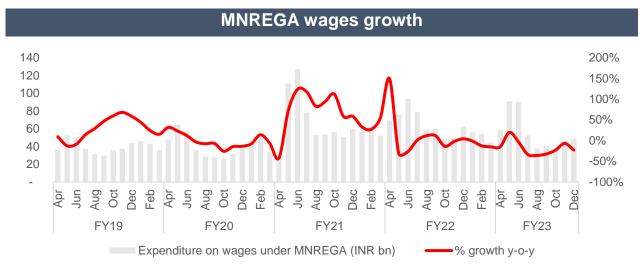
State-wise production and farm income expectation for the rabi season

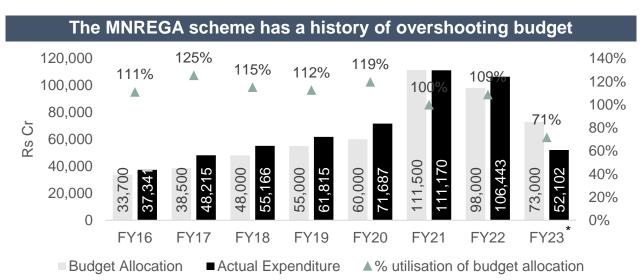


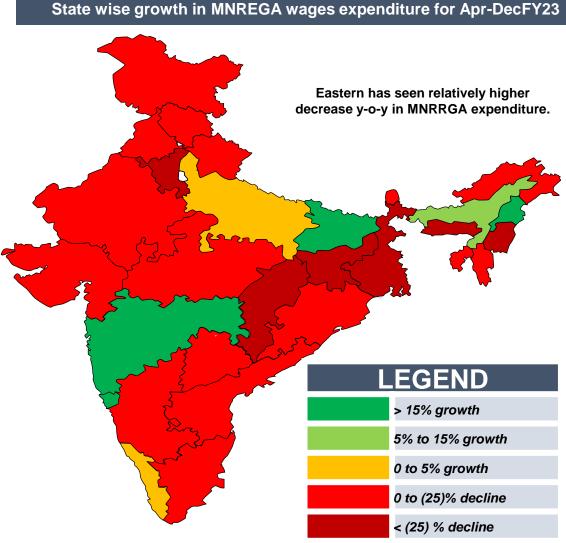
<(10)%

No data

MNREGA scheme budget allocation tapered down in FY23





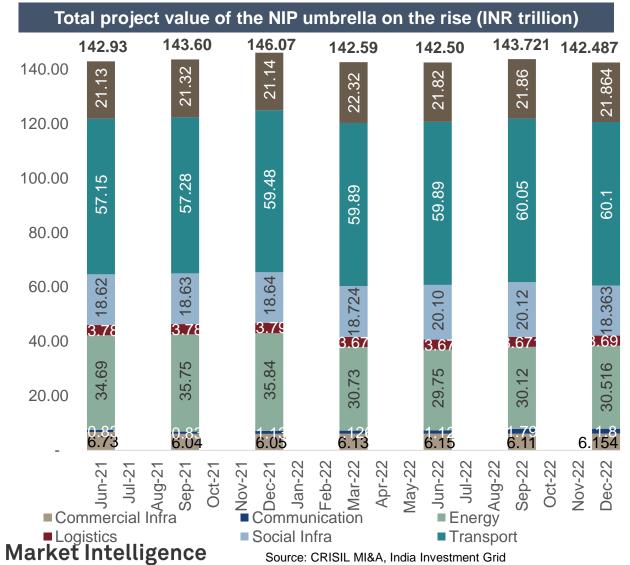




National Infrastructure pipeline



Transport, energy, water and sanitation investments dominate the Consulting investments outlined in the NIP, momentum improving sequentially



& Analytics

Sector wise stage wise value of projects (INR trillion)													
Stage/Progress	Segment	Sep-21	Dec-21	Mar-22	Jun-22	Sep-22	Dec-22						
	Transport	0.32	1.28	1.36	1.64	1.88	1.90						
	Energy	1.84	1.84	1.89	1.94	2.08	2.22						
	Water and Sanitation	0.59	0.61	0.68	0.69	0.79	0.79						
Completed	Commercial Infra	0.03	0.04	0.10	0.11	0.17	0.18						
	Social Infra	0.07	0.07	0.08	0.09	0.10	0.11						
	Logistics	0.30	0.31	0.29	0.29	0.29	0.43						
	Communication	0.01	0.01	0.01	0.01	0.01	0.01						
	Transport	29.81	31.72	31.80	31.83	31.79	31.89						
	Energy	7.90	10.10	9.58	9.50	9.66	10.18						
	Water and Sanitation	11.61	11.61	12.13	12.13	12.10	12.13						
Under Construction	Commercial Infra	0.71	0.71	0.70	0.70	0.71	0.73						
	Social Infra	15.23	15.24	15.24	17.01	17.21	15.70						
	Logistics	2.69	2.69	2.76	2.76	2.76	2.64						
	Communication	0.73	1.04	1.04	1.04	1.04	1.04						
	Transport	27.15	26.48	26.73	26.42	26.38	26.31						
	Energy	26.01	23.90	19.26	18.31	18.38	18.12						
	Water and Sanitation	9.12	8.92	9.51	9.00	8.97	8.94						
Pre-construction & planning	Commercial Infra	5.30	5.30	5.33	5.34	5.23	5.25						
	Social Infra	3.33	3.33	3.40	3.00	2.82	2.55						
	Logistics	0.79	0.79	0.62	0.62	0.62	0.62						
	Communication	0.09	0.08	0.08	0.08	0.74	0.75						
Total Completed		3.16	4.16	4.41	4.76	5.32	5.65						
Total Under Construction		68.68	73.11	73.25	74.97	75.27	74.31						
Total Pre-construction & planning		71.8	68.80	64.93	62.77	63.14	62.53						

Source: CRISIL MI&A, India Investment Grid

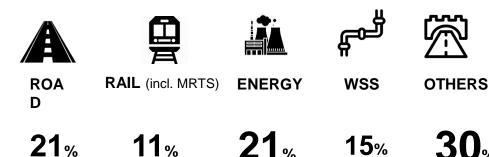
Note: March-22 has seen dip in total project value compared to Dec-21 largely due to Energy sector

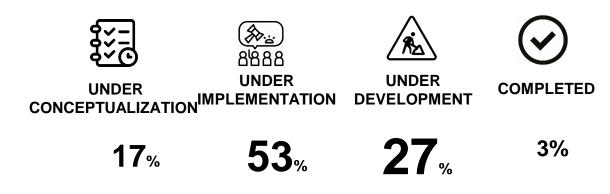


Roads account for ~76% of opportunity in the transport segment

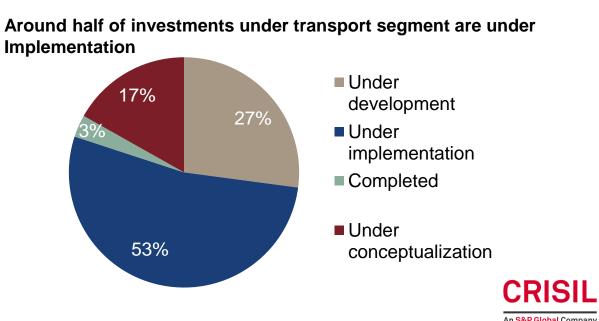
Transport, energy and water projects account for ~79% of NIP spending of Rs. 142.5 lakh crore

~Rs 31.89 lakh crore of projects currently under implementation





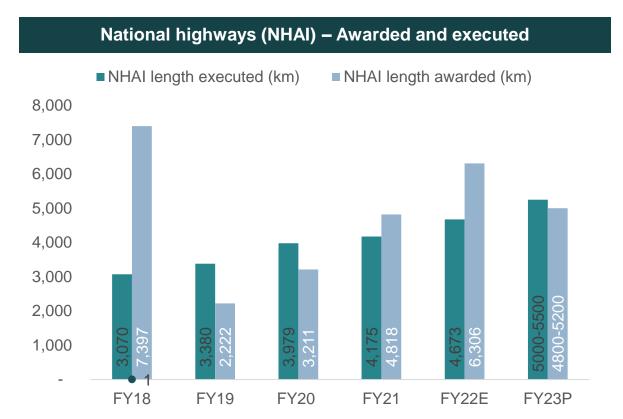
Roads account for ~77% of opportunity in the transport segment Roads and Bridges Note: 1. All charts are for the period 14% FY20-25 Railways 2. Others include irrigation, rural infra, ports, airports, health, Urban Public petroleum, natural gas, education, transport 3. Updated as on 78% 2nd Jan 2023 Airports and **Aviation** Market Intelligence & Analytics Source: CRISIL MI&A. India Investment Grid

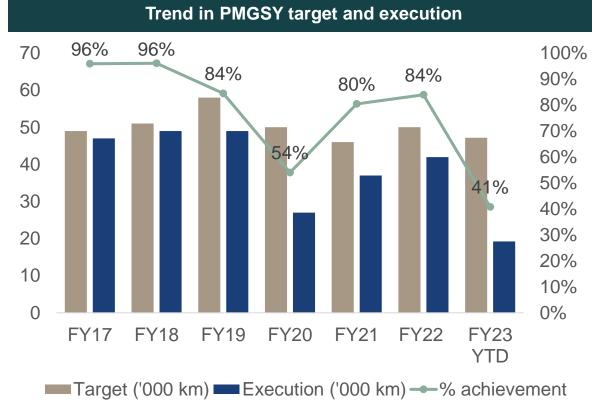


Focus on Road Infrastructure



Higher National Highway execution expected in FY23







FY22 has seen strong awarding of road projects after two slow years

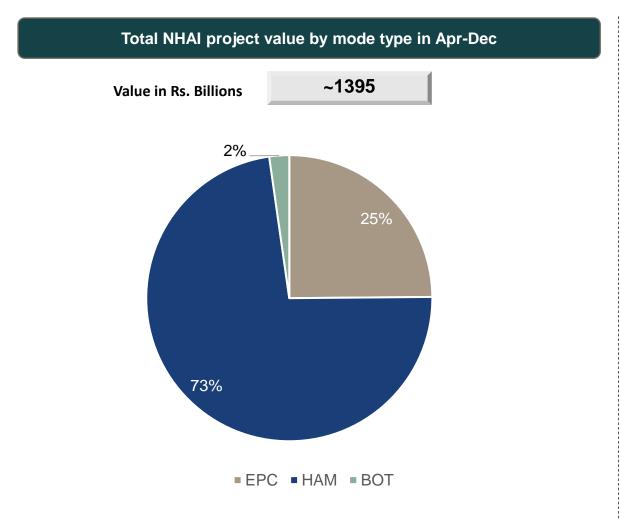
NHAI execution is expected to grow in FY23

E: Estimated; P: Projected, National Highway Authority of India Source: NHAI, MoRTH, CRISIL MI&A

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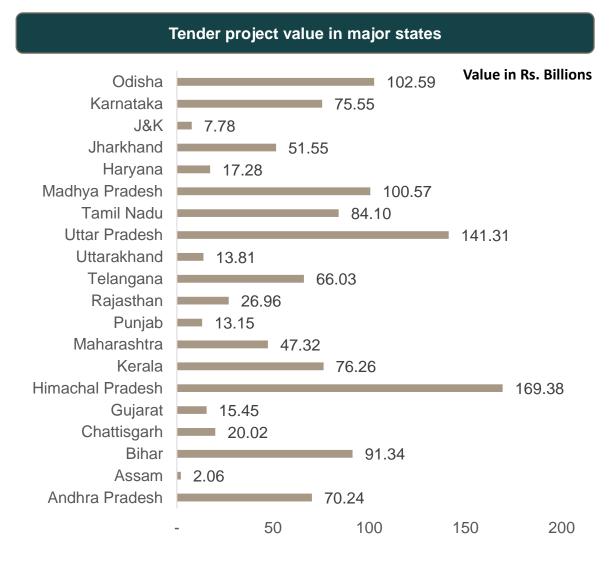
NHAI tendering in Apr-Dec FY23



*Total tender value consists of states mentioned herewith

Source: CRISIL MI&A

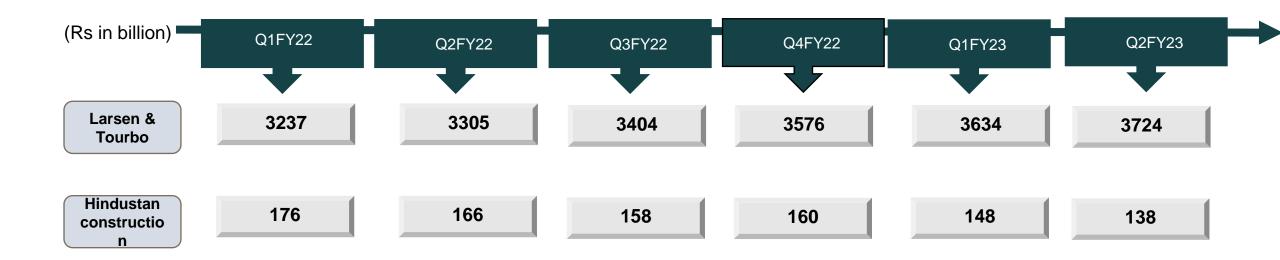
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& Analytics





Order books swelling at EPC firms amid high govt spending and swift economic rebound

Major players have bulging order book; Players with focus on roads, bridges and metro witnesses' robust growth



Source: CRISIL MI&A; Company Reports Note: Order book is cumulative till that quarter

NA- Not available

Indian automobile industry



Assumptions for forecast

- No sizeable impact on production and supply chain due to resurgence of Covid
- Continued gradual improvement in production levels
- No disruption in OEM vehicle launch plans
- o Elevated inflation levels, impact on consumer disposable incomes in the short term
- Global as well as domestic Economic scenario to remain under pressure
- Retail fuel prices to remain elevated
- o Financing scenario to remain accommodative
- o Retails of BSVI phase 1 to be allowed in FY24, restriction to be limited to production of BSVI phase 1 vehicles from 1 April 2023
- BSVI phase 2 vehicle inventory build up from Q4 FY23

Domestic – Annual forecast

Commont		Volu	ımes		Y-o-y growth rate						
Segment	FY21	FY22	FY23E	FY24P	FY21	FY22	FY23E	FY24P			
PV (mn)	2.7	3.1	3.7-3.9	3.8-4.0	(2)%	13%	23-25%	0-2%			
Two Wheelers (mn)	15.1	13.7	16.3-16.8	17.2-17.7	(13)%	(9)%	19-21%	5-7%			
CV ('000)	566	731	970-990	1010-1020	(21)%	29%	33-35%	3-5%			
Three Wheelers ('000)	217	267	490-500	603-613	(66)%	23%	83-85%	22-24%			
Tractors (mn)	0.89	0.84	0.91-0.93	0.92-0.93	27%	(6)%	8-10%	(1)-1%			

Numbers include EVs



Domestic – Long term forecast

Segment		Volu	mes			Y-o-y growth rate			
	FY20	FY21	FY22	FY27P	FY20	FY21	FY22	FY22-27 CAGR	
PV (mn)	2.8	2.7	3.1	5.0-5.2	(18)%	(2)%	13%	10-12%	
Two Wheelers* (mn)	17.5	15.2	13.7	22-23	(18)%	(13)%	(11)%	9-11%	
CV ('000)	718	566	716	1250-1300	(28)%	(21)%	26%	11-13%	
Three Wheeler* ('000)	639	217	260	760-770	(9)%	(66)%	20%	23-25%	
Tractors (mn)	0.71	0.89	0.84	1.1-1.3	(10)%	27%	(6)%	6-8%	

Numbers include EVs



Exports – Annual forecast

Cogmont	Cubogmont		Volu	ımes		Y-o-y growth rate			
Segment	Subsegment	FY21	FY22	FY23E	FY24P	FY21	FY22	FY23E	FY24P
	Cars	0.26	0.37	0.39-0.41	0.41-0.44	(44)%	42%	8-10%	3-5%
PV (mn)	UV	0.14	0.20	0.23-0.25	0.24-0.27	(25)%	45%	19-21%	5-7%
	Industry	0.40	0.58	0.64-0.66	0.67-0.7	(39)%	43%	12-14%	4-6%
	Motorcycle	3.0	4.1	3.5-3.7	3.7-3.9	(3)%	34%	(13)-(11)%	6-8%
Two Wheelers	Scooter	0.2	0.4	0.4-0.5	0.4-0.6	(40)%	23%	20-22%	6-8%
(mn)	Moped	0.008	0.01	0-0.02	0-0.2	(37)%	51%	68-70%	(21)-(19)%
	Industry	3.3	4.4	3.9-4.1	4.2-4.4	(7)%	36%	(10)-(8)%	6-8%
	LCV	31.1	58.3	55-60	60-65	(8)%	87%	(1)-1%	4-6%
CV ('000)	MHCV	13.5	25.7	10-15	13-18	(7)%	90%	(52)-(47)%	9-11%
CV ('000)	Buses	5.7	8.3	10-15	10-15	(53)%	(46)%	43-48%	9-11%
	Industry	50.3	92.3	80-85	85-90	(17)%	83%	(11)-(9)%	5-7 %
	GV	5.6	10	6-8	7-9	(12)%	82%	(36)-(34)%	7-9%
Three Wheelers ('000)	PV	387	490	395-495	420-430	(22)%	26%	(19)-(17)%	5-7%
, , ,	Industry	393	500	405-410	430-435	(22)%	27%	(19)-(17)%	5-7%
Trac	tors ('000)	89	129	130-135	132-136	17%	45%	2-4%	0-2%

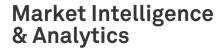




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Inventory correction- in Q3 amidst healthy retail demand

Vehicle segment	Normal inventory in days	Current inventory levels*	Inventory Units	Reasons
Passenger Vehicles	~30	30-35	~0.3 million	Amidst the healthy festive retails and moderated offtake during Q3, inventory levels have contracted to 30-35 days from 30-40 days at the end of Q2.
Two Wheelers	~45	35-40	~1.7-1.9 million	Some normalization in the inventory with good festive retail demand while offtake was on a sliding trajectory.
Commercial Vehicles	~30	20-25	58-63 thousand	Inventory levels cam down for most of the segments in Q3 largely in the LCV segment. Tippers saw similar inventory levels as last quarter to cater the aggressive demand. Buses too have witnessed some inventory corrections in Vans and MHCV bus
Three Wheelers	20-25	20-30	20-25 thousand	With improved retails and reduced offtake during Q3, inventory levels have come down to normal levels.
Tractors	~35-40	45-50	130-150 thousand	Inventory levels have been high for past few month. However, players have undertaken some correction in November and December post festive.





Passenger vehicles



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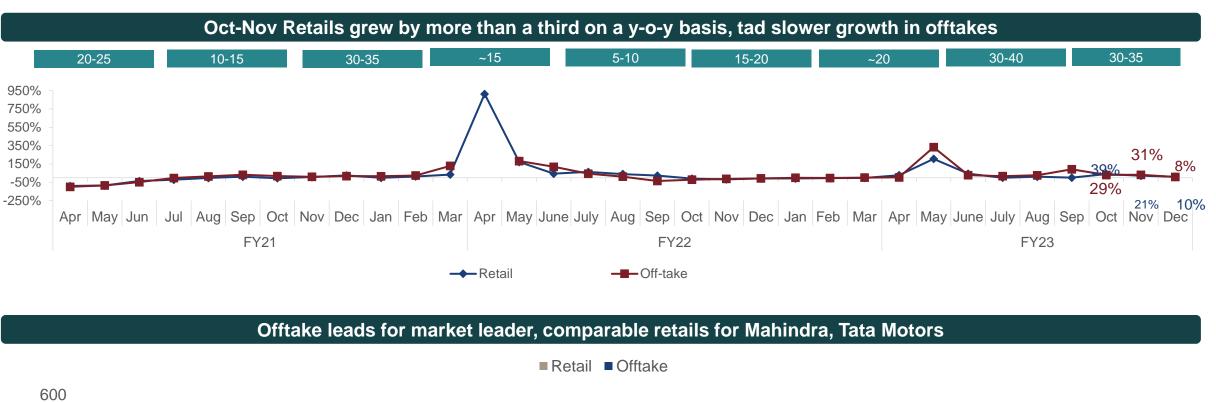
Post the record sales in FY23, industry growth pace to taper in FY24 from the high base of FY23

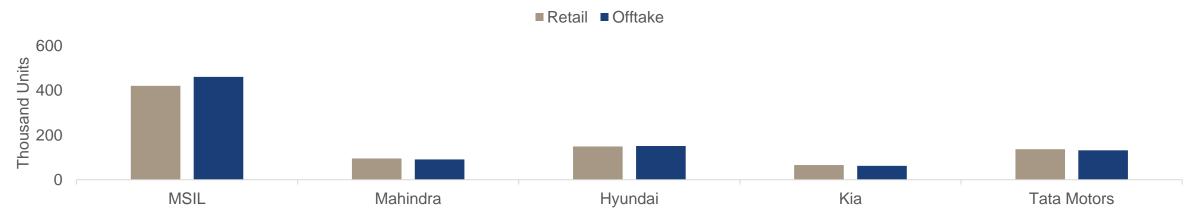
Variables	FY21	FY22	FY23 E	FY24 P
Income for discretionary spending	NF	F	F	N
Variables	FY21	FY22	FY23 E	FY24 P
Cost of ownership	N	N	NF	NF
Petrol / CNG Vehicles	N	NF	NF	NF
Diesel vehicles	NF	NF	NF	NF
Interest rates	F	N	NF	NF
Variables	EV04	EV.00	EV.00 E	
vai iabies	FY21	FY22	FY23 E	FY24 P
New model/ facelift launches	FY21 N	FY22 F	FY23 E F	FY24 P F
New model/ facelift launches	N	F	F	F
New model/ facelift launches Regulations – passenger vehicles	N NF	F N	F N	F NF





Record retails, healthy offtake, some inventory correction during Q3





Market Intelligence & Analytics

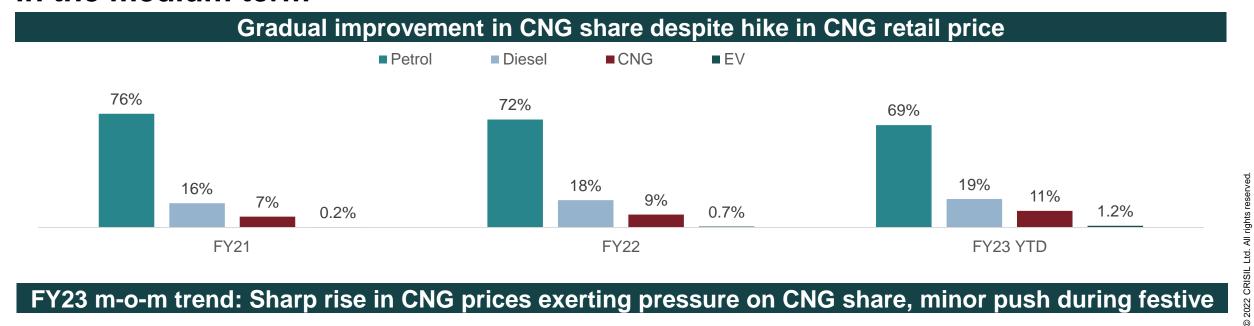
Source: SIAM, MoRTH, CRISIL MI&A

Dealer inventory days

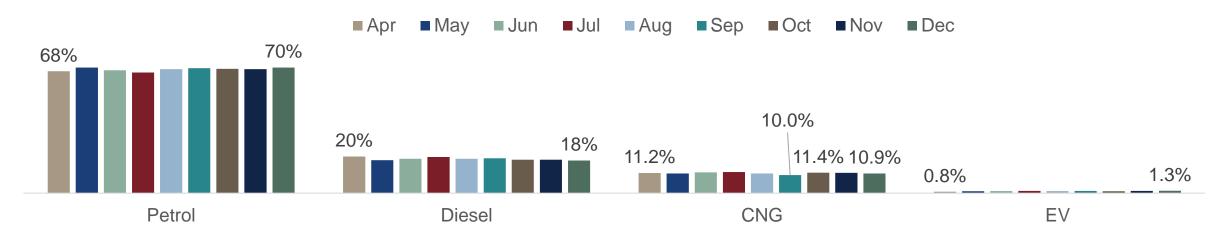


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Consulting Petrol lost some ground to Diesel & CNG; CNG share expected to remain steady in the medium term



FY23 m-o-m trend: Sharp rise in CNG prices exerting pressure on CNG share, minor push during festive

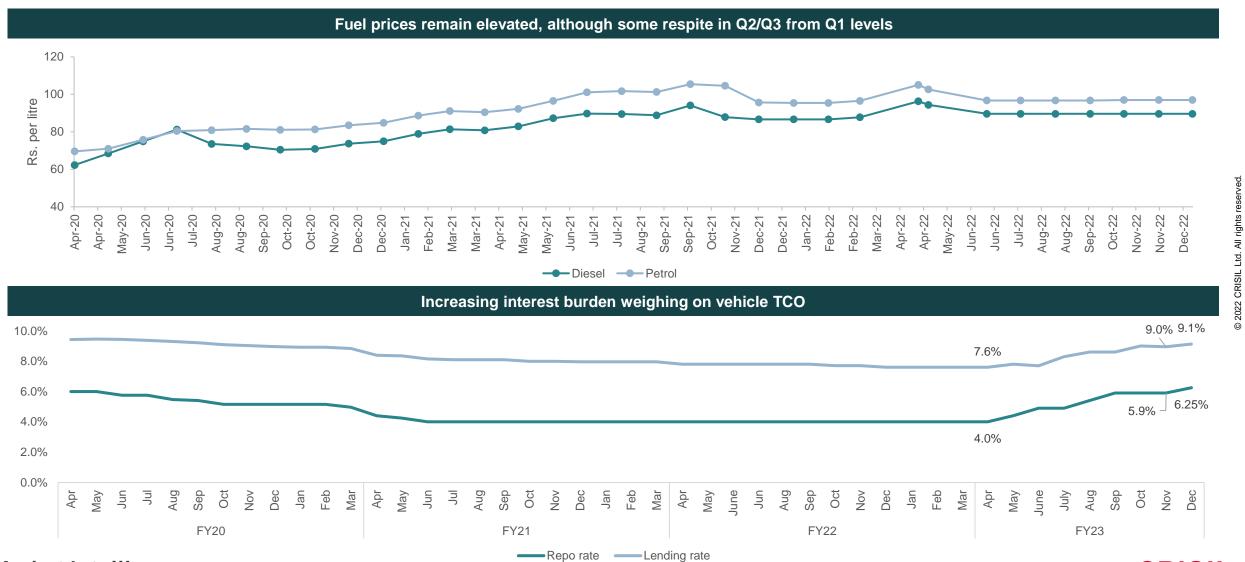


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Source: Industry, MoRTH, CRISIL MI&A

Interest rates on a rising trend, 35 bps repo rate hike in Dec to push rates ^{Consulting} to hike lending rates further

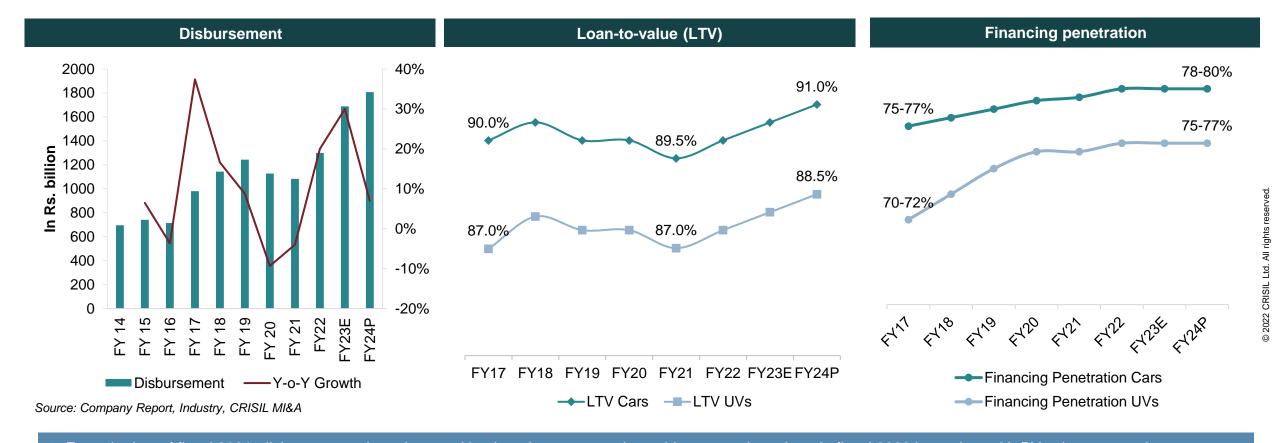


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Source: Industry, MoRTH, CRISIL MI&A



After a high growth in FY23, disbursement growth pace to taper down in FY24

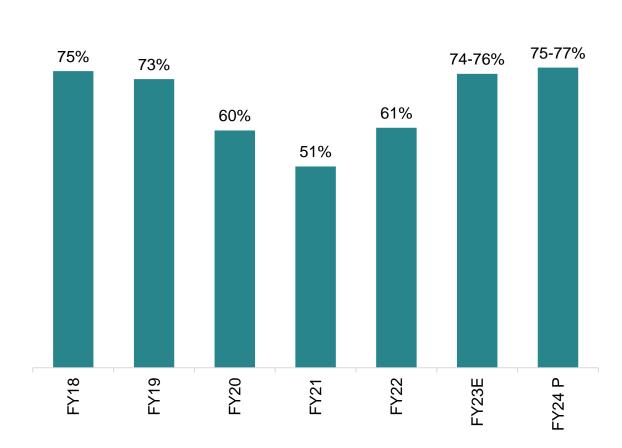


- From the low of fiscal 2021, disbursements have bounced back and are expected to achieve record numbers in fiscal 2023 in tandem with PV sales expectations
- 28-32% y-o-y rise is expected in the financial disbursements this year- 24-26% from the volume growth supported by 5-6% price hike
- In fiscal 24, disbursements are expected to rise 6-8% backed by expected rise in vehicle pricing. The volumes are expected to remain range bound.
- Price rise will be due to the phase 2/ airbags mandate coupled with annual price hike undertaken every year
- Financers remain accommodative of the PV industry
- Rising interest rates remain a concern



Supply side improvement to back utilization in FY23, to remain rangebound in FY24

Utilization to reach pre Covid levels in FY23



Source: CRISIL MI&A Estimated

Capacity utilisation of key players

Player	Effective Capacity (in '000) (on 31st Mar 2022)	Capacity utilisation in FY21	Capacity Utilisation in FY22	Capacity Utilisation in April-Nov FY23
Maruti	2,250	69%	79%	85%
Hyundai	763	74%	79%	95%
Tata Motors E	564	38%	66%	99%
Renault- Nissan	480	30%	39%	46%
Toyota	310	17%	24%	43%
Honda	180	48%	59%	66%
Volkswagen	179	28%	43%	33%
Kia Motors	300	64%	79%	119%

E: Estimated

Source: SIAM, Industry, CRISIL MI&A





Healthy festive retails, inventory correction during December

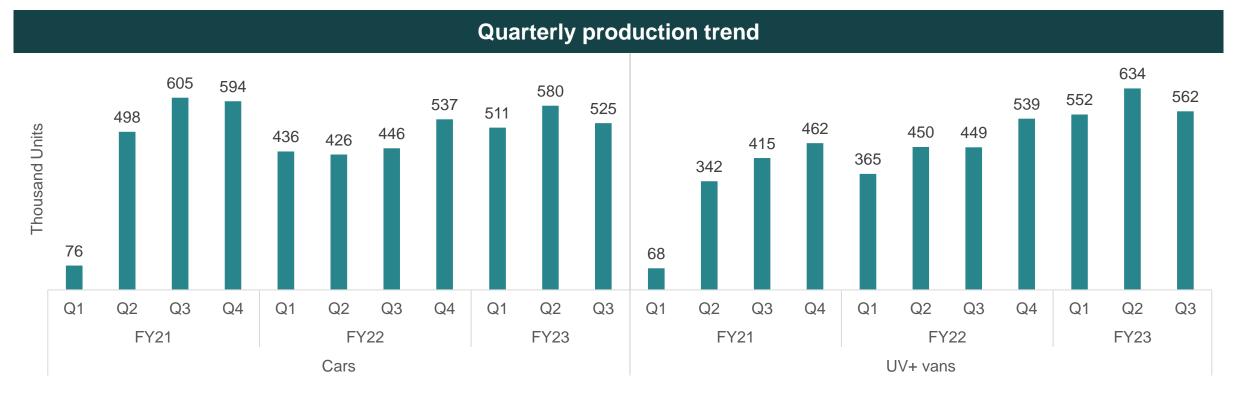


Note: Retail numbers are estimated, Offtake numbers include Tata Motors sales Source – MoRTH, SIAM, CRISIL MI&A

- Industry witnessed healthy sales- retail as well as offtake, Inventory built up continued even in October
- OE push especially for the basic hatchback segment continued even in November
- Although there was m-o-m contraction (from a high base) in retails during Nov, still industry clocked 3lakh+ retails during Nov
- December saw some inventory correction with continued healthy retails while 15% m-o-m drop in offtake
- High discounts provided a kicker to retails during December
- Dealer inventory levels came down from 35-40 days in September end to 30-35 days during December



Some moderation in production during Q3 from high base of Q2



Source: SIAM, CRISIL MI&A

- With easing of supply chain issues as well as strong demand, production reached record high levels in Q2 especially for UVs
- · This high production was to cater to the inventory built up for the expected healthy festive demand
- On this high base, production moderated in Q3 amidst the inventory correction by OEMs
- Despite the moderation witnessed on a q-o-q levels, overall production clocked 21% growth on a y-o-y basis
- Growth in UVs was faster at 25% vis a vis 18% y-o-y growth witnessed in cars



Domestic – Annual forecast

	Units	Passenger cars	UVs & vans	Total	EV penetration
FY21	Millions	1.54	1.17	2.71	0%
y-o-y growth	%	-9%	9%	-2%	
FY22	Millions	1.47	1.60	3.06	0.5%
y-o-y growth	%	-5%	37%	13%	
FY23E	Millions	1.6-1.8	2.0-2.2	3.7-3.9	1-2%
y-o-y growth	%	15-17%	30-32%	23-25%	
FY24P	Millions	1.7-1.8	2.1-2.2	3.8-4.0	3-4%
y-o-y growth	%	0-1%	1-2%	0-2%	

Source - SIAM, CRISIL MI&A

Market Intelligence & Analytics



Domestic – Quarterly forecast

Fiscal	Quarter	Passen	ger cars	UVs 8	& vans	То	tal
FISCAI	Quarter	Sales ('000)	y-o-y growth	Sales ('000)	y-o-y growth	Sales ('000)	y-o-y growth
	Q1	336	348%	309	317%	649	335%
FY22	Q2	344	(21)%	396	32%	740	0%
FIZZ	Q3	349	(32)%	411	9%	760	(15)%
	Q4	437	(15)%	482	15%	919	(1)%
	Q1	398	19%	509	65%	908	40%
FY23 E	Q2	470	37%	554	40%	1,025	38%
F123 E	Q3	420	20%	514	25%	934	23%
	Q4 E	410-420	(6)-(4)%	515-525	6-8%	930-940	1-3%
	Q1 P	380-390	(4)-(2)%	490-500	(4)-(2)%	875-885	(4)-(2)%
FY24 P	Q2 P	435-445	(7)-(5)%	530-540	(4)-(2)%	975-985	(5)-(3)%
F124 F	Q3 P	440-450	5-7%	545-555	6-8%	990-1000	6-8%
	Q4 P	440-450	6-8%	540-550	4-6%	985-995	5-7%

Source - SIAM, CRISIL MI&A



Domestic – Quarterly forecast

- Q2 offtake reached a record high of million+ volumes amidst the improvement in production as well as OE push especially for small cars segment
- Moreover, the inventory built up for the festive season backed the offtake growth in Q2; at the end of Q2 dealer inventory were above normal at 30-40 days
- Q3 saw healthy retails amidst the festive demand as well as push in December with high discounts & price hikes from Jan
- Some inventory correction was done by OEMs during Q3, & dealer inventory reached 30-35 days by Q3 end
- Q4 offtake is expected to remain range bound, as OEMs clear the BSVI phase 1 inventory
- Inventory built up for BSVI phase 2 is expected to start from March and continue in Q1 FY24
- For the complete year FY23, a record high growth of 24-26% is estimated. On this high base, some moderation is expected in FY24.
- Industry offtake is expected to clock 0-2% growth
- UV segment will provide the necessary push while demand for cars is estimated to remain range bound



Stakeholder interactions

OEMs

- Definite improvement in supply situation
- · Still the production has not completely normalized
- Current Covid situation may aggravate the production scenario going ahead
- All OEMs have reduced dependence on few suppliers and have employed alternate sources
- Price hike expected in January, April-BSVI phase 2 and Oct- mandatory airbags
- Domestic demand is relatively price inelastic except for the basic hatchback segment
- Record high dispatches expected in the current fiscal
- From this high base, next year sales are expected to remain range bound
- Some improvement in global economic scenario expected in the second half of next fiscal
- Election year to provide an added boost in the next fiscal



- · Encouraging festive retail
- Good traction continued during November as well
- Although retails moderated from Oct levels, still improved numbers compared to general post festive demand
- Some moderation in retail demand in Dec after 2 consecutive months of healthy retail
- Record high discounts in December, expected to continue in January
- 2-3% price hike from January
- Some retail boost expected in the last week amidst price hike and high discounts
- Gradual improvement in vehicle supply from OEMs
- Some correction in dealer targets during Nov/Dechelping dealers prioritize their orders
- Slow moving models primarily in dealer stock
- Popular models still warrant waiting period
- Some moderation in waiting periods
- · Booking pipeline has reduced
- · Pace of fresh bookings has slowed down
- No communication from OEMs regarding the dispatch of BSVI phase 2 models
- · Expected to receive the same from March





- High retail traction in the market is backing the disbursement growth
- Interest rates have been hiked in line with the hike in repo rates during December
- LTV and penetration levels remain steady
- No sizeable impact of rate hike seen on disbursement during Q3
- · Stance from financers remains accommodative
- Some increase in caution going ahead if the economic indicators remain negative

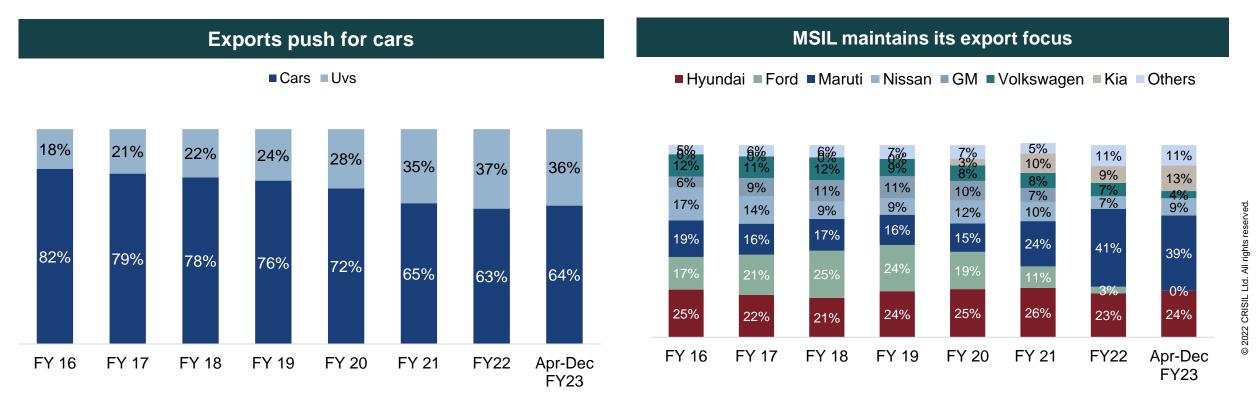




PV exports



Exports to expand further from the high base of FY22

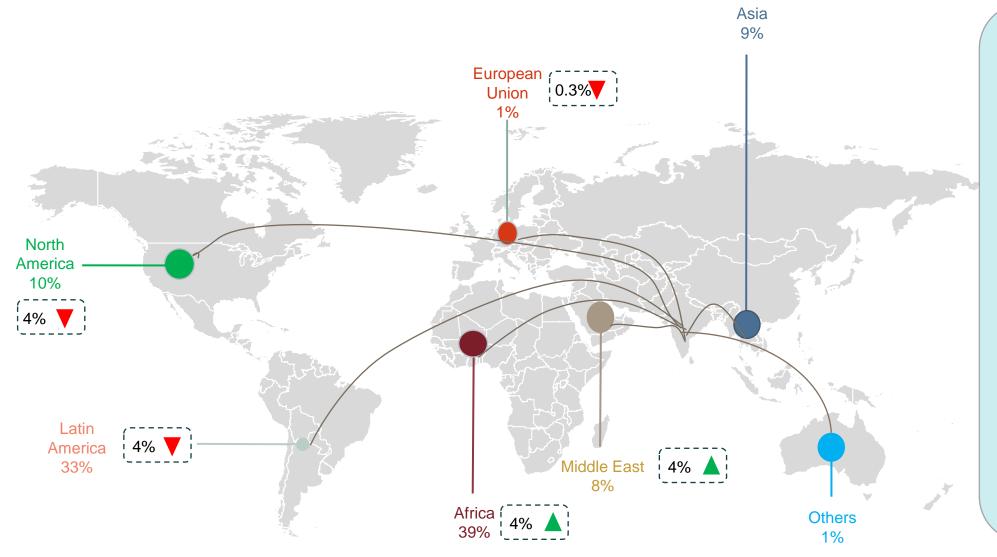


Source: SIAM, CRISIL MI&A

- Amidst the increased traction for UVs in the domestic market, share of cars in exports market rose during FY23
- During FY23 Maruti continued to dominate the exports as well
- Kia has fast gained ground even in the exports space with Seltos and Sonet
- Third highest contributor to domestic sales, Tata Motors has low presence in the exports market
- Industry clocked ~16% growth in Apr- Dec FY23 and for the complete year exports are expected to reach near pre Covid levels



Passenger Vehicle Exports



- During FY23, PV exports increased further during Apr-Nov period
- Africa continued to dominate the exports and extended its lead during the year
- This growth was led by the increased exports to South Africa
- South Africa emerged as the leading contributor to Indian exports
- While some contraction in exports to second largest export destination Mexico limited the exports to LATAM region
- Continued drop in exports to US exerted pressure on North American exports

Market Intelligence & Analytics



Two-wheelers



After the recovery in FY23, pace to slacken in FY24

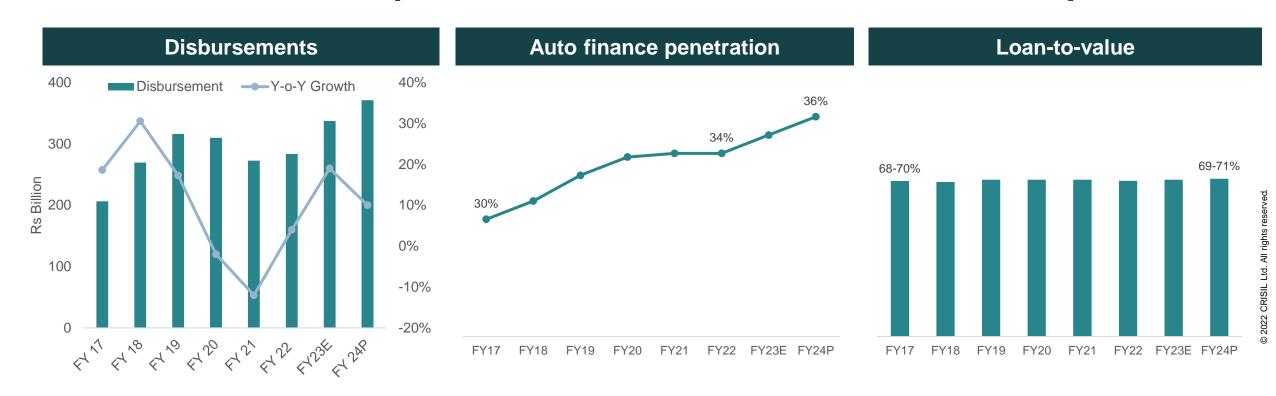
Variables	FY21	FY22	FY23 E	FY24 P
Income for discretionary spending	NF	N	F	N
Variables	FY21	FY22	FY23 E	FY24 P
Cost of ownership	N	N	N	N
Interest rates	F	N	NF	NF
Variables	FY21	FY22	FY23 E	FY24 P
Variables New model/ facelift launches	FY21 N	FY22	FY23 E	FY24 P

NF: Not Favorable, F: Favorable; N: Neutral

E: Estimates P: Projected



Disbursements to improve further in FY24, albeit at a slower pace



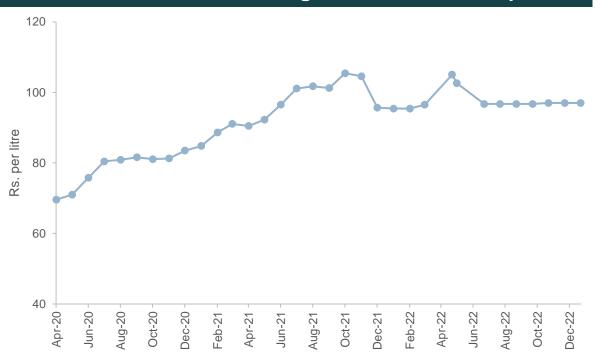
Source: Experian Credit Bureau, Company Reports, CRISIL MI&A

- Disbursements rebounded in FY23 after the subdued levels witnessed during the Corona period
- The improvement was on the back of improvement in vehicle sales as well as the price hikes undertaken. Moreover, there was some improvement in the penetration as financers became more accommodative with reopening of economy
- The disbursement growth is expected to continue in FY24, although at a subdued pace given the tapered vehicle sales growth expected next year.
- Penetration improvement is expected to continue in FY24, as financers remain positive about the segment
- LTVs are expected to remain rangebound



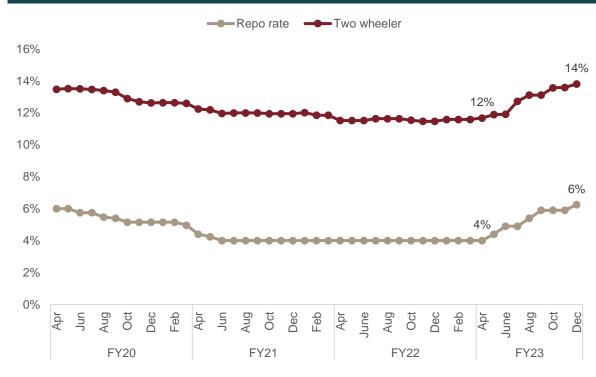
Fuel costs remain elevated, interest rates on the rise

Petrol Prices: Remained rangebound in the last quarter



Note: Fuel prices in Delhi region Source: Industry, CRISIL MI&A

Interest Rates mimicking the repo trend

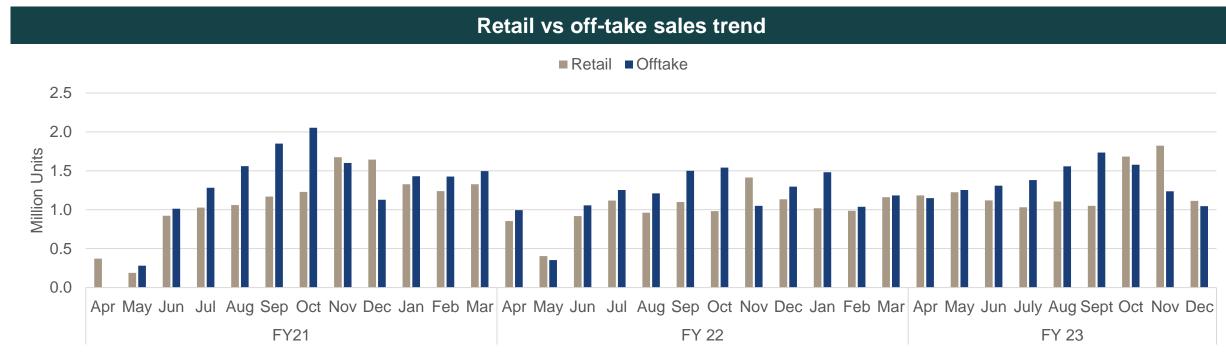


NOTE - Interest rates are an indicative rates charged by Banks Source – CRISIL MI&A

- Fuel prices after being stagnant for about three months from Dec-Feb, spiked to Rs. 105 in Apr 22 owing to rise in worldwide crude oil prices. It has now settled in the range from Rs. 96 to Rs.97
- Interest rates have been hiked by more than 200 bps in tandem with 225 bps rise in repo rates
- Rising operating costs remain a concern for the industry



Healthy festive retail, inventory correction during Q3

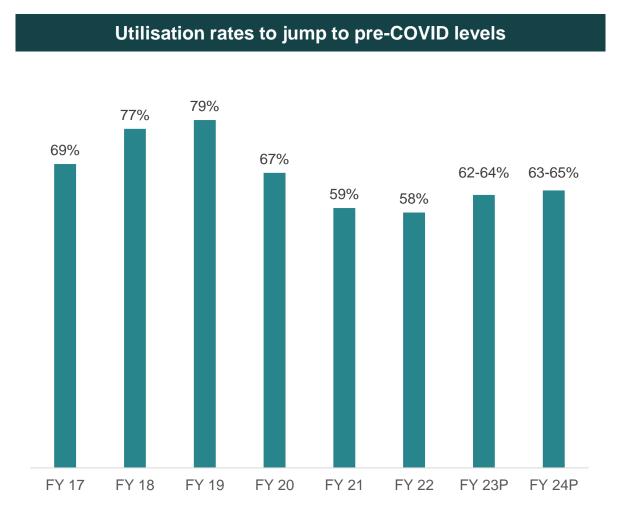


In million units
Note: Retail numbers are estimated
Source – MoRTH, SIAM, CRISIL MI&A

- Festive inventory built up backed offtake growth in Q2, while retail sales remained subdued
- In turn, retails witnessed healthy growth during Q3 (46% q-o-q, 30% y-o-y), offtake were on a sliding trajectory as OEMs undertook inventory correction.
- Dealer inventory levels normalized to 35-40 days by the end of Q3



Further moderate improvement in utilization expected in FY24



	Player wise utiliz	zation	
Player	Effective Capacity estimate in mn (as on 31st Mar 2022)	Utilization	
Hero Motocorp	9.6	4.0	56%
Bajaj Auto	5.72	2.7	63%
HMSI	6.4	3.6	74%
TVS Motor Company	4.5	2.7	79%
India Yamaha Motors	1.6	0.7	56%
Suzuki Motors	1.25	0.7	72%
Royal Enfiled	0.95	0.6	88%
Piaggio Vehicles	0.15	0.0	43%
Industry Total	31.13	15.1	65%

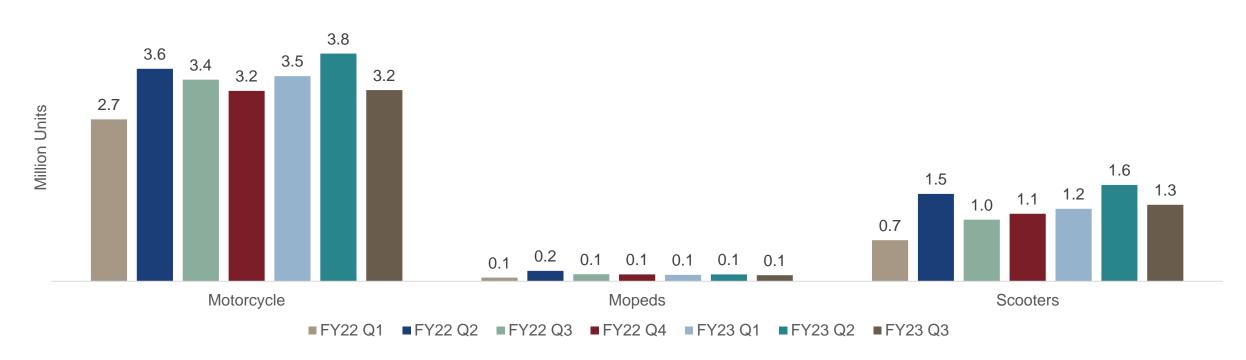
SOURCE: Industry, SIAM, CRISIL MI&A

Market Intelligence & Analytics



After a festive high of Q2, production normalizes in Q3

Segment wise production trend: Steeper contraction for scooters during Q3



Source: SIAM, CRISIL MI&A

- Backed by increased offtake demand and normalization in supply, production improved on a q-o-q basis for all the segments during Q2
- Production dropped 17% during Q3 in line with the domestic offtake, Some inventory correction was done during the quarter
- Scooters witnessed a steeper contraction at 21% while motorcycles production dropped 16%
- Although on a low base of FY22, scooter production increased 24% on a y-o-y basis during Q3 FY23



Domestic – Annual forecast

	Units	Motorcycle	Scooters	Mopeds	Total	EV penetration
FY21	Millions	10.0	4.5	0.6	15.1	0%
y-o-y growth	%	(11)%	(20)%	(3)%	(13)%	
FY22	Millions	9.0	4.3	0.5	13.7	2%
y-o-y growth	%	(10)%	(6)%	(23)%	(9)%	
FY23E	Millions	9.9-10.4	5.5-6	0.4-0.6	16.3-16.8	4-6%
y-o-y growth	%	13-15%	36-38%	(10)-(8)%	19-21%	
FY24P	Millions	10.8-11.3	5.8-6.3	0.4-0.6	17.2-17.7	6-8%
y-o-y growth	%	7-9%	1-3%	(3)-(1)%	5-7%	

Note: Numbers include EVs Source – SIAM, CRISIL MI&A

Market Intelligence & Analytics



Domestic – Quarterly forecast

Figoral	Quarter	Moto	cycle	Sco	oter	Мо	ped	То	tal
Fiscal	Quarter	Sales (mn)	y-o-y growth						
	Q1	1.7	93%	0.6	85%	0.1	28%	2.4	88%
FY22	Q2	2.6	(17)%	1.4	5%	0.2	(17)%	4.2	-11%
F122	Q3	2.4	(22)%	1.1	(24)%	0.1	(38)%	3.7	-24%
	Q4	2.2	(22)%	1.1	(19)%	0.1	(30)%	3.4	-22%
	Q1	2.4	38%	1.4	119%	0.1	61%	3.9	60%
FY23 E	Q2	3.0	15%	1.8	26%	0.1	-29%	4.9	17%
FIZSE	Q3	2.5	4%	1.4	30%	0.1	-20%	4.1	11%
	Q4 E	2.2-2.4	4%	1.1-1.3	11%	0-0.2	-9%	3.5-3.7	6%
	Q1 P	2.4-2.6	2%	1.3-1,5	1%	0-0.2	-13%	3.9-4.1	1%
FY24 P	Q2 P	2.5-2.7	-14%	1.4-1.6	(19)%	0-0.2	-16%	4.0-4.2	-16%
F124 P	Q3 P	2.9-3.1	17%	1.5-1.7	10%	0-0.2	7%	4.5-4.7	14%
	Q4 P	2.9-3.1	32%	1.5-1.7	27%	0-0.2	15%	4.6-4.8	30%

Data includes EVs Source – SIAM, CRISIL MI&A



Domestic – Quarterly forecast

- After the sharp inventory built up done during Q2, offtake contracted during Q3;OEMs undertook inventory correction
- However, on a y-o-y basis, offtake witnessed growth in Q3
- Scooters clocked 30% growth on a low base while motorcycles witnessed slower growth at 4%
- Going ahead in Q4, further moderation is estimated amidst the increased prices as well as transition to BSVI phase 2. OEMs will focus on liquidating the old BSVI phase 1 inventory.
- We do not expect a sizeable impact of the norms of the 2W prices as well as retail demand
- For FY24 growth pace is expected to decelerate from the high base of FY23. Higher moderation is expected in scooter demand while motorcycle demand is estimated to provide the primary boost.
- EVs are expected to continue their strong growth trajectory with improvement in vehicle supply as well as increased vehicle options.



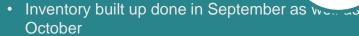
Stakeholder interactions



OEMs

- Positive supply sentiments and considerable recovery in semiconductor supply which resulted in improved inventory in August and September
- Significant production push during Q2 was done for festive built up
- Robust growth was witnessed in festive season this year
- Some moderation in offtake and inventory correction was done during Q3
- Marginal price hike in Q4, no significant impact expected on the demand
- BSVI phase 2 transition to not have a sizeable impact
- · Phase 2 vehicle dispatches may start from Q4 end
- Sluggish economic environment will exert pressure on the demand in FY24
- On a high base of FY23, some moderation in demand growth is expected
- Favourable rural demand to support demand growth
- EV traction rising and expected to continue in FY24 putting added pressure on ICE scooter sales

Dealer



- Discounts were offered for the festive season across OEMs
- Festive retail demand was satisfactory during Q3
- Offtake was reduced, backing inventory correction
- Inventory levels have come down to 35-40 days from ~45 days at the start of the quarter
- Few OEMs have continued discounts in January (Makarsankranti)
- December retails were sluggish after strong October and November
- Customers have been notified of the price rise from January
- It did not result in significant pre buying- Enquiries to Conversion percentage remained low during December
- Positive agri output is expected to back rural demand going ahead
- Scooters have shown good growth during the year from a low base
- Enquiries for EVs remain strong
- · Availability of EV is a concern

Financier



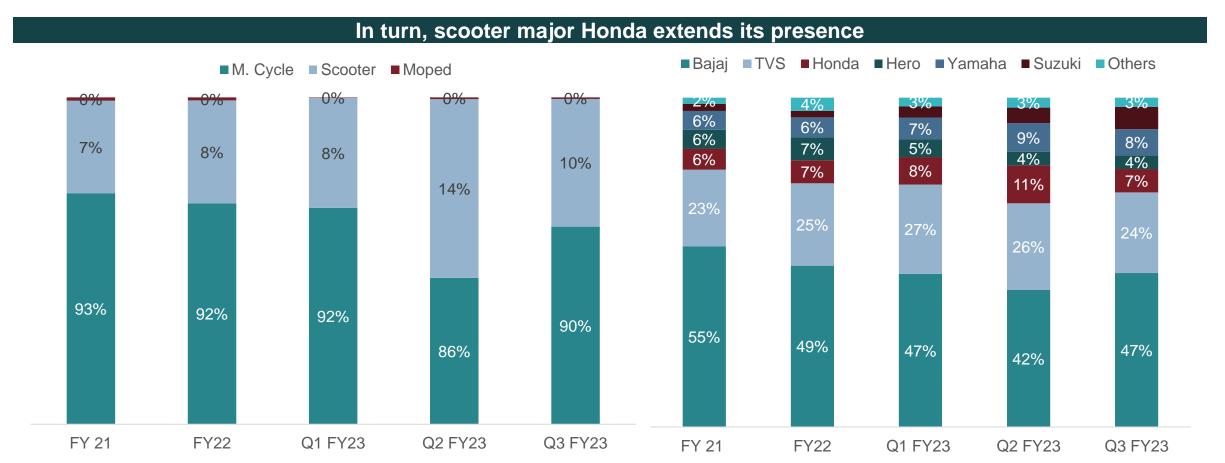
- Increased retail demand backed disbursement growth during Q3
- Interest rates have gone up in line with rising repo rate, whereas LTV remained on the similar lines.
- Price rise to not have a sizeable impact on the demand, will back the disbursements levels
- Financing scenario remains accommodative



Two-wheeler exports



Increased scooter exports in FY23



Source: SIAM, CRISIL MI&A

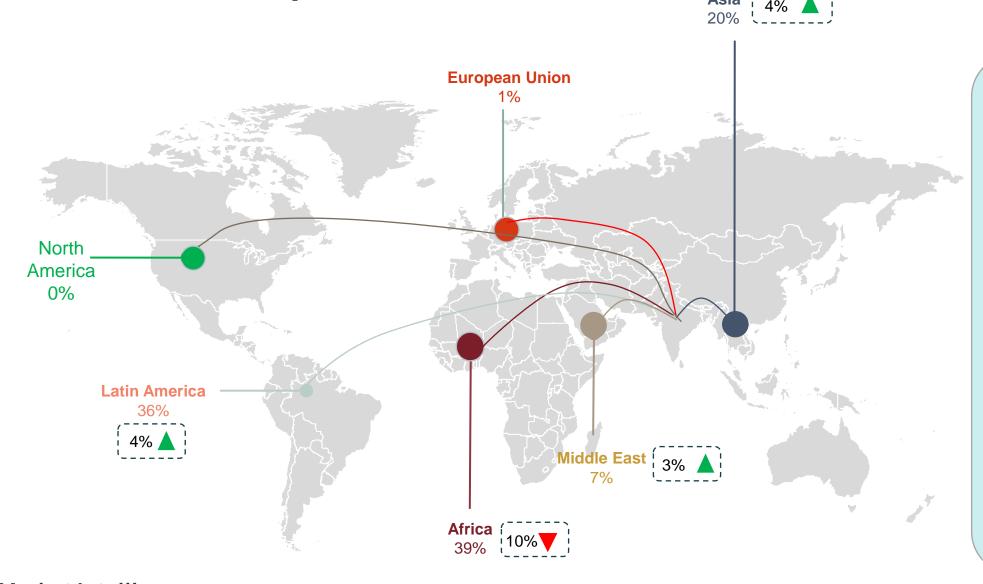
- Export demand increased substantially by 36% in FY22 over the lower base of FY21 as economies started recovering
- In the first 3 quarters of FY23, on a high base exports demand contracted 12% with ~14% drop in motorcycle exports
- On the other hand, scooter exports rose 15% y-o-y
- Thus, share of scooters has expanded in the exports mix and Honda extended its presence

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Two-Wheeler Exports



- There has been demand pressure in key export destinations due to global tightening and high inflation.
- Devaluation of currencies against the Indian rupee and US dollar has also made products expensive. ASEAN countries are lesser impacted than African economies due to worsening economic conditions.
- This can be seen in the FY23 YTD exports to Africa which lost share to Asia and LATAM countries
- For the complete year, some contraction in exports is expected from the increased base of last year

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Commercial Vehicles



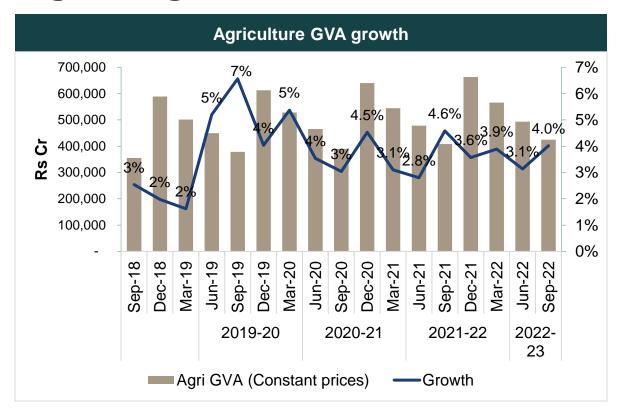
Overview of end-use segments - Cargo

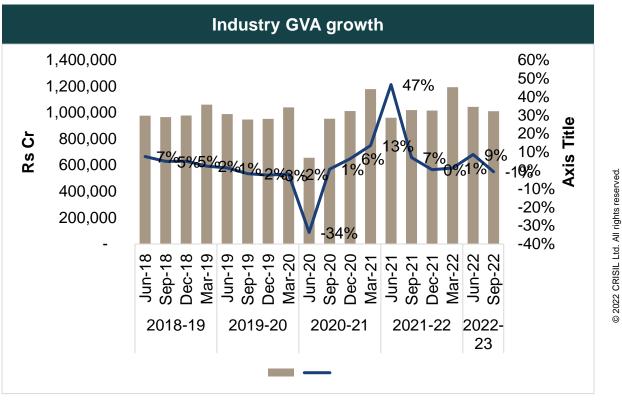
Segments (% Growth Y-o-Y)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 P	FY 24 P	
Coal (Production)	2	7	0	(2)	9	7-9	9-11	
Iron ore (Production)	3	3	19	(17)	23	0-2	3-5	_
Steel (Consumption)	8	9	1	(5)	11.4	10-12	7-8	0
Cement (Consumption)	9	12	(-3)	1	9	10-12	8-10	-Core Sectors
Roads (Km Constructed / Day)-NHAI	8	9	11	11	13	14-15	15.5-16.5	_
Port (Traffic)	6.5	8.2	2	(5.5)	4.3	5-8	3-6	-
Two-wheelers (Domestic sales)	14.8	5	(18)	(13)	(11)	9-11	5-7	
Passenger vehicles (Domestic sales)	8	3	(18)	(2)	13	24-26	0-2	_
Consumer durables (Consumption)	5.8	7	5	(17)	12-17	10-13	6-8	Discretionar y Products
E-retail	35	35-37	23	13	27	20-25	20-25	_ ,
RMG (Market Size)	5	6	(2)	(24)	23	14-16	10-12	-
Dairy (Production)	6.7	7	5	(4)	3	5-7		_ Non -
FMCG	8	12	5	3.5	13-15	8-10	7-9	Discretionary
Pharmaceuticals (Market Size)	1	15	9	13	7-8	6-8	9-11	Products

Overview of end-use segments - Buses

Segments (% Growth Y-o-Y)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 P	FY 24 P	
Gross School Enrollment								
K-12	73.4	73.4	78	74.5	74.8	75.1	75.4	- Buses
Above K-12	23.4	22.5	22.5	22.2	23.0	23.4	23.4	
IT Employee Base	3	4	4	7	14.5	8-10	5-9	
Air Passenger Traffic (million passengers)	188	209	209	64.4	106.8	195	210-230	
Hotel Room Demand	5	4	1	(51)	74	25-30		

Agriculture is expected to maintain a healthy growth momentum Consulting – growing 3% in fiscal 2023 and fiscal 2024



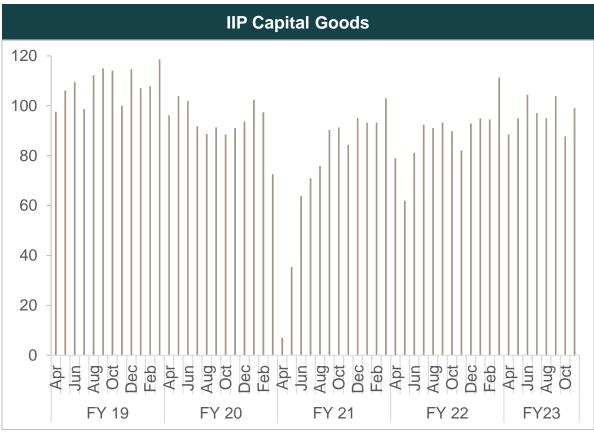


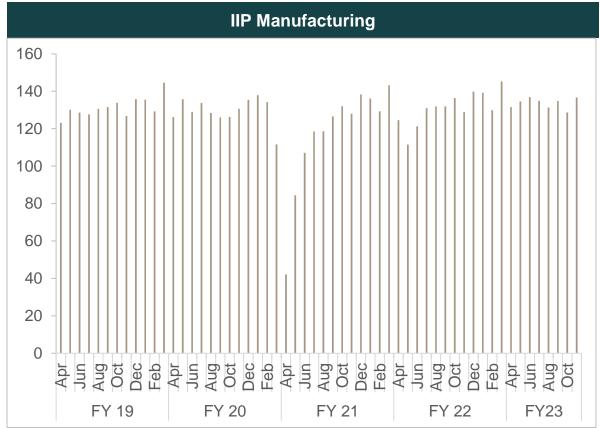
Source: MOSPI, CRISIL MI&A

- Agri GDP grew at 4% on-year during Q2FY23. Growth in Q2 FY22 was around 4.6%
- Overall agriculture growth is expected to remain at 3% in next fiscal, given expectation of healthy kharif production, and adequate reservoir levels
- Industry GVA witnessed -1% growth in Q2 FY23



IIP Touched pandemic lows in October; some improvement in November





Source: MOSPI, CRISIL MI&A

Source: MOSPI, CRISIL MI&A

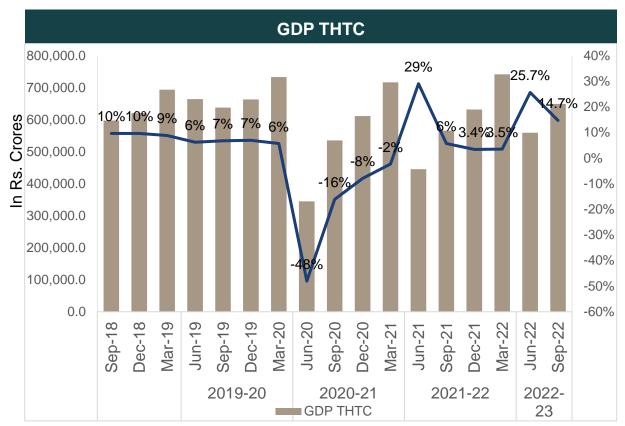
- The Index of Industrial Production (IIP) stayed volatile, falling 4% on-year in October in contrast to 3.5% growth in September. This was the sharpest fall since August 2020. While an unfavourable base was partly responsible, activity slipped sequentially as well. All major sectors saw IIP fall, with manufacturing seeing the sharpest
- All major sectors saw IIP fall, with manufacturing seeing the sharp decline in Oct; The decline in manufacturing activity was imminent given the sharp decline in exports seen in October.
- Some improvement witnessed in November across manufacturing, capital goods as well as IIP general.

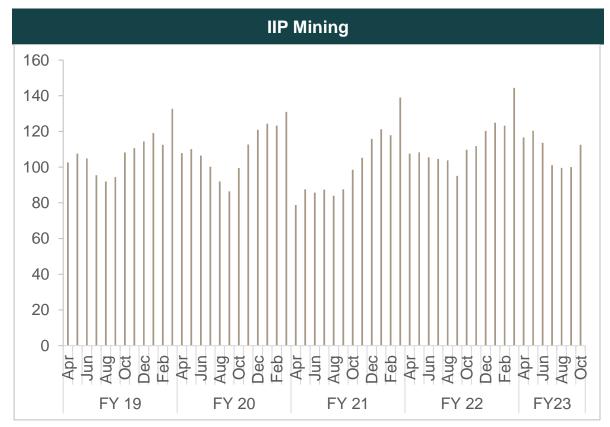




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GDP THTC sees growth on low base; Mining IIP growth holds ground





NOTE: THTC: Transport Hotel Transport Communication Services

Source- MOSPI, CRISIL MI&A

Source: MOSPI, CRISIL MI&A

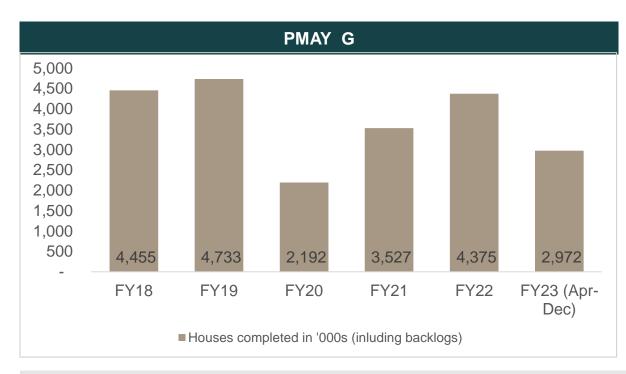
- GDP THTC registered a growth of 14.7% in second quarter over Q2FY23. This segment is showing tremendous growth on account of tourism sector picking up.
- Mining IIP grew 2.5% on-year in October compared with 5.2% previous month and 11.5% in October 2021. Sequentially, it grew 0.6%

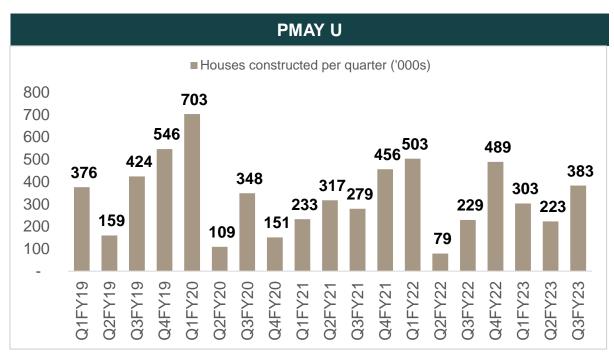
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1.23 Cr houses sanctioned under PMAY-Urban, 63.27 lakh units already built





- Out of the total sanctioned houses under PMAY-Urban, 104.12 lakh have been grounded for construction and 63.27 lakh units have already been completed or delivered to beneficiaries.
- The highest execution was when there were elections in FY19 post which activities have tapered off
- ~50% of the homes sanctioned being completed in the urban areas.

Note: Current coverage on PMAY and PMGSY is on a annual/quarterly basis, monthly coverage to be initiated post receipt of mandate Source: MOSPI, CIL, SCCL, NHAI, NRIDA, MoRD, CRISIL MI&A

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Overview of end-use segments – Discretionary consumer goods





Segments (% Growth Y-o-Y)	FY 18	FY 19	FY 20	FY 21	FY 22 E	FY 23 P	FY24P
Consumer durables (Consumption)	5.8	7	5	(17)	12-17	10-13	6-8

- Rising inflation and reduced discretionary spend is expected to limit growth of household appliances sector in fiscal 2023 and fiscal 2024.
- Consumption is expected to witness moderation next fiscal, which will have an impact on household appliances growth. Domestic demand could come under pressure as interest rate hikes gets transmitted more to consumers. CRISIL MI&A thus expects sector to grow 6-8% in fiscal 2024.



Segments (% Growth Y-o-Y)	FY 18	FY 19	FY 20	FY 21	FY 22 E	FY 23 P	FY24P
E-retail	35	35-37	23	13	27	20-25	20-25

• The sector is expected to witness 20-25% growth in fiscal 2023 on account of higher discretionary spending and waning impact of the pandemic. An improving economy amid low to moderate inflation is expected to drive consumer spends in the medium to long term, propelling growth in the retail industry. Among verticals, food & grocery is expected to grow at a healthy pace on back of significant offline as well as online impetus.



Segments (% Growth Y-o-Y)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 P	FY24 P
RMG (Market Size)	5	6	(2)	(24)	23	14-16	10-12

• Overall RMG industry revenues increased by 22-24% in fiscal 2022. The demand was driven by US ban on China, arrival of festive season, revival in overall economy along with reopening of offices, schools, and other enterprises. This fiscal, domestic demand is estimated to grow by 14-16% on year basis and will be driven by revival in consumer spend amid improving economy. While overall RMG exports are likely to grow at 9-11%, exports to USA is likely to remain

Overview of buses (1/2)



Segments	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 P	FY24 P
No of K-12 institutions (million)	1.56	1.56	1.65	1.62	1.6	1.7	1.7
Gross enrolment ratio (GER) (%)	73.4	73.4	78	74.5	74.8	75.1	75.4

• We expect ~80,000 to 90,000 K-12 institutions to be set up between fiscals 2022 and 2025, as compared with 55,000 to 65,000 in the previous three years. GER in the overall K-12 segment is likely to reach 75.1% in fiscal 2023 from 74.5% in fiscal 2021.



Segments (% Growth Y-o-Y)	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 P	FY24P
Growth in number of IT employees	3	4	4	7	14.5	8-10	5-9

• Revenue of the Indian IT services industry is expected to show healthy growth in this fiscal due to digitization and transformational projects. Operating margins are expected to contract in this fiscal on account of increased employee related costs and increase in expenses. Employee additions are expected to bump up with skilled workforce at core in future for both the domestic and export markets.

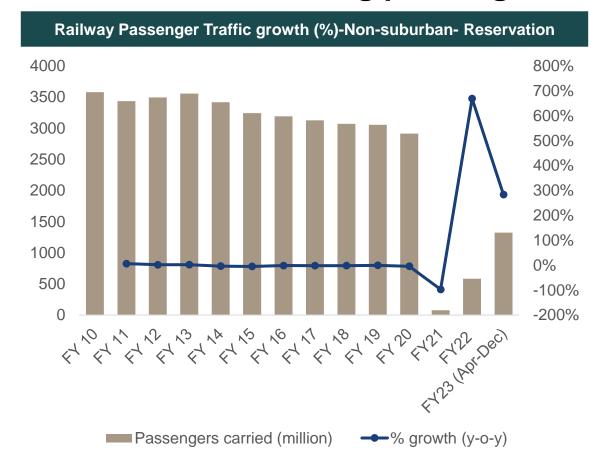


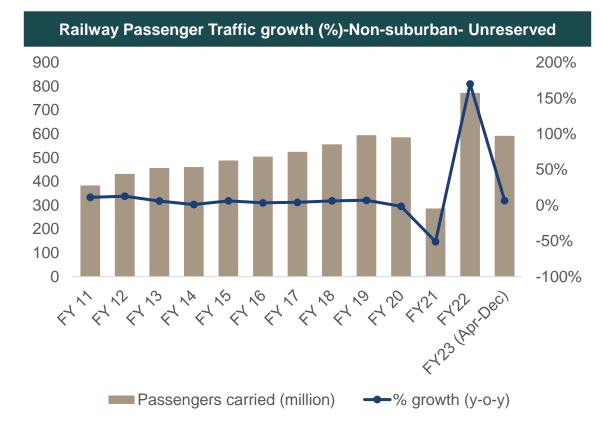
Segment	FY 18	FY 19	FY 20	FY 21	FY 22	FY 23 P
Pan India hotel rooms supply	72028	75250	77410	79051	83617	91162
Occupancy rates (%)	65	65	64	31	50	60

- The hotels sector is expected to witness strong growth is fiscal 2023, on the back of a recovery in major demand drivers as the economy picks up. The sector will likely reach pre-pandemic levels in absolute terms, as it emerges from the shadows of the pandemic.
- Premium hotels saw a sharp recovery in fiscal 2022 on a low base, driven by staycations and leisure demand. A revival in corporate travel and MICE segments, coupled with restarting of inbound international travel, should help the sector regain pre-pandemic levels in fiscal 2023.

Market intemgence & Analytics Source CS

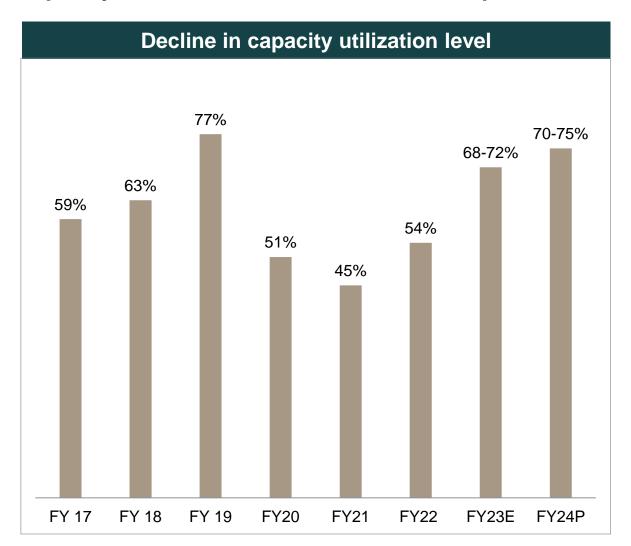
While railways was losing share to road and air-based modes earlier, with the COVID-19 effect waning passenger movement across modes to be better







Capacity utilisation to further increase as production will pick up in last quarter on account of BS6 B



Player-wise capacity utilisation									
Player	Effective Capacity estimate (as on 31st Mar 2020)	Capacity utilization in Apr-Dec FY23							
Ashok Leyland	2,22,300	137,749	83%						
Eicher Motors	97,500	53,986	74%						
Tata Motors	7,62,000	293822	51%						
Mahindra & Mahindra	2,92,000	193,061	88%						

	• •		
Player	Location	Capacity '00 units	Status
Causis E-Mobility Pvt. Ltd.	Murshidabad, West Bengal	15	Planning
Causis E-Mobility Pvt. Ltd.	Pune, Maharashtra	10	Under implementation
Veera Vahana Udyog Pvt. Ltd.	Anantapur, Andhra Pradesh	30	Planning
Triton Electric Vehicle Pvt. Ltd.	Kutch, Gujarat	500	Planning

Capacity additions

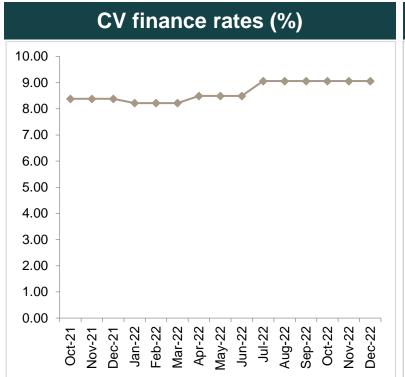
Note: Capacity utilization is that of Tata Motors, Ashok Leyland, Eicher Motors and Mahindra & Mahindra representing ~90% of domestic sales

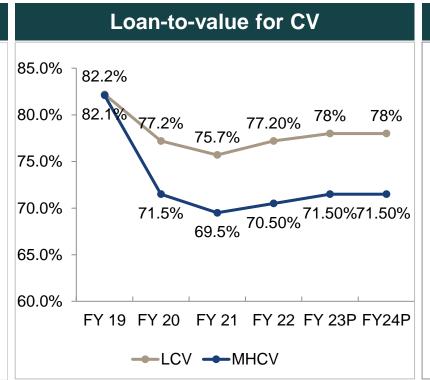
Source: Industry, CRISIL MI&A

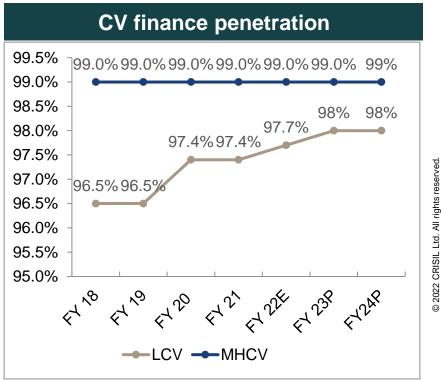
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Cautious lending by banks; more focus on collections





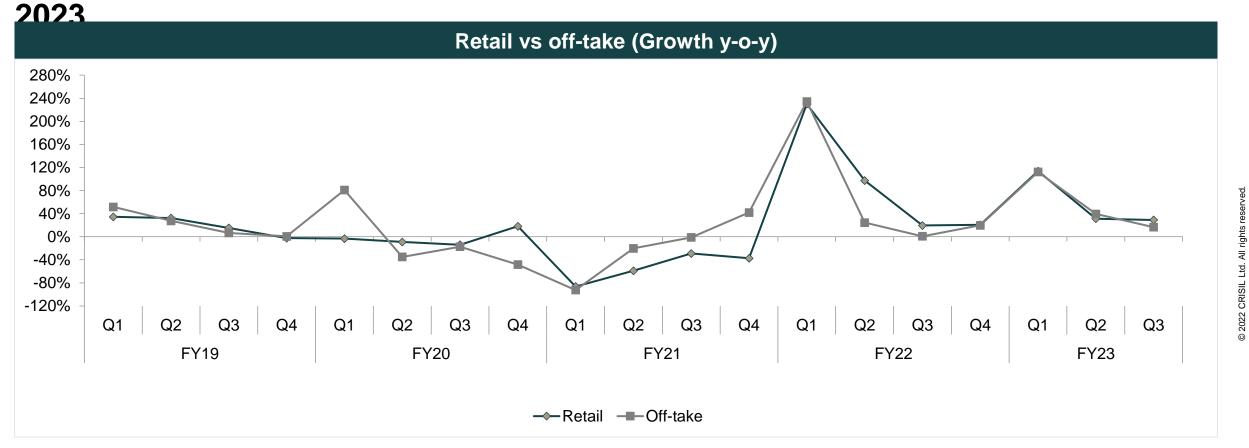


NOTE - Interest rates are an indicative rates charged by Banks

Source: Company Reports, Industry, Crisil MI&A



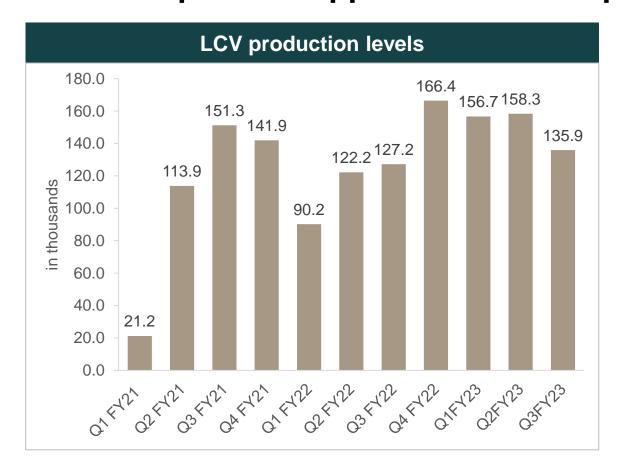
Retail & offtake showing recovery on sequential basis; Retail momentum Consulting to continue on account of demand and BS6B price impact from April

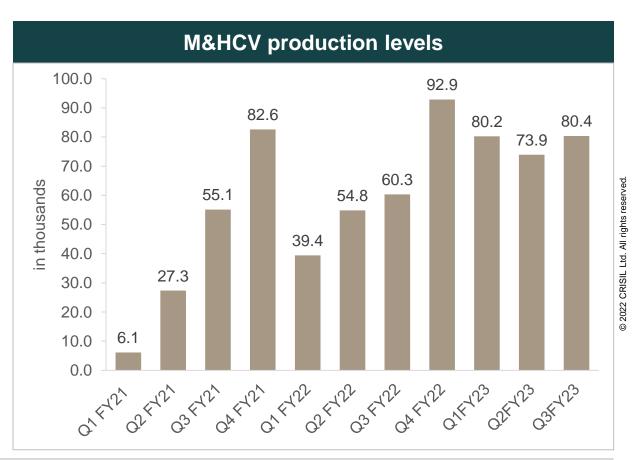


Source: SIAM, MoRTH, CRISIL MI&A



Production of MHCVs continues to see upward trajectory behind story Consulting of infra dependent applications and replacement



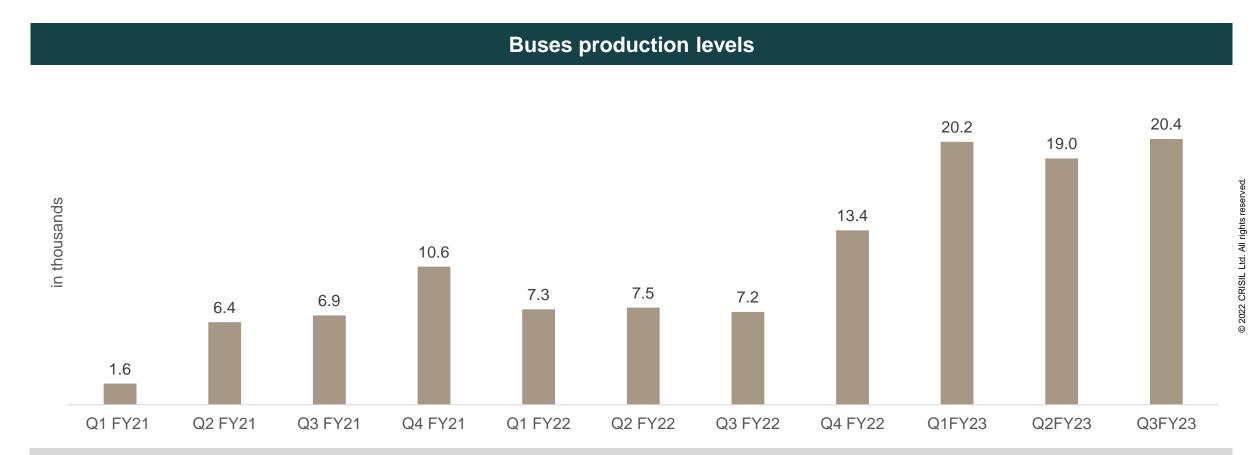


- Production for LCV and MHCV increased by approx. 7% and 33% respectively Y-o-Y in Q3 FY23 on account of increase in demand from MHCV's
- Production to further witness growth in the last quarter as the market demand remains strong and OEMs would prepare themselves for BS6 B scenario

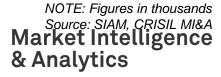
NOTE: Figures in thousands Source: SIAM, CRISIL MI&A Market Intelligence & Analytics



Bus demand supported by tourism and STU procurement in Q3FY23



- Demand for buses continued to do well even in Q3 FY23 on account of increasing tourism.
- Q4FY23 will continue to see several STU-PPP orders especially from the southern and northern states viz. Karnataka, Maharashtra, West Bengal, and Delhi.





Domestic – Annual forecast

Sales	Units	LCV cargo	IMHCV cargo	Buses	CV	EV Penetration
FY22	Thousands	472	227	32	731	2%
y-o-y growth	%	19%	47%	90%	29%	
FY23E	Thousands	582-587	308-313	80-85	970-980	2-4%
y-o-y growth	%	23-25%	36-38%	152-154%	33-35%	
FY24P	Thousands	613-618	308-314	90-95	1010-1020	3-5%
y-o-y growth	%	4-6%	0-1%	12-14%	3-5%	



Domestic – Quarterly forecast (1/2)

Annual	Overter	LCV cargo		IMHC	√ cargo	Bu	ses	Total	
Annual	Quarter	Sales ('000)	y-o-y growth						
	Q1	75.8	180%	27.3	567%	5.7	389%	108.8	237%
FY22	Q2	111.2	4%	51.3	115%	6.6	57%	169.2	24%
FIZZ	Q3	131.4	(7%)	60.4	21%	7.3	67%	199.1	1%
	Q4	153.3	20%	88.1	16%	12.7	53%	254.2	19%
	Q1	141.7	87%	67.4	147%	20.2	255%	229.3	111%
FY23 E	Q2	147.0	32%	72	40%	18.9	185%	237.9	41%
FIZSE	Q3	138.3	5%	76.8	27%	16.8	131%	231.9	16%
	Q4 E	157-159	2-4%	93-95	6-8%	25-27	102-104%	277.6	8-10%
	Q1 P	133-135	(6)-(4)%	64-66	(5)-(3)%	23-25	15-17%	222.3	(4)-(2)%
FY24 P	Q2 P	149-151	1-3%	75-77	5-7%	19-21	5-7%	245.7	2-4%
F124 F	Q3P	164-166	19-21%	78-80	3-5%	19-21	19-21%	264.4	13-15%
	Q4P	167-169	5-7%	89-91	(5)-(3%)	28-30	10-12%	286.2	2-4%

Source - SIAM, CRISIL MI&A





Domestic – Quarterly forecast (2/2)

- SCV & ULCV: E-commerce, FMCG and Agri to see continuation of the traction in FY23 as well. CNG vehicles face headwinds due to the rise in CNG prices. Availability of CNG options is expected to sustain volumes in this segment. However, some OEMs seek to profit by offering CNG variant alternatives, while a selected few also intend to provide electrified version of variants in this segment.
- MHCV: Replacement demand is likely to boost aided by construction projects. NIP projects to continue freight demand for goods such as cement, steel and coarse aggregates. Production of these goods in turn, is expected to drive freight demand for minerals such as coal, iron ore, limestone/dolomite, etc. Aggregate transportation in some states positively affecting this segment to an extent. The segment is anticipated to be propelled by soaring demand from large, structured projects and rising MSMEs' economic contribution
- Buses: The government is considering launching its largest-ever procurement to buy roughly 8,000 electric buses for State Transport Undertakings (STUs) around the country to speed up the transition to clean mobility in the public transportation system, Despite being a part of replacement, this is likely to boost the demand for IMHCV buses



Stakeholder interactions

Transporters

Utilization levels

- After some tapering off in Q1FY23, utilisation level witnessed promising growth in Q2FY23 and have been at similar levels.
- Utilisation in FMCG/CD, courier/parcels due to ecommerce and freight goods experienced a boost thanks to festive season. Auto-carriers and textiles are also expected to propel in utilisation level. Though the sectors faced hiccups post festive with freight rates declining largely due to freight rates correction, but utilisation remained constant
- Regulatory norms and geopolitical issues that were affecting states such as Orissa have been resolved to some extent and Iron ore transportation in Orissa has been resumed
- Undergoing and upcoming infrastructure projects in roads, bridges, and metros augment well for steel and cement transportation
- Preference for higher tonnage vehicles in trailers and tippers is becoming prominent among transporters

Dealers & OEMs

Demand Story

- · The SCV segment now offers a wide selection of products, covering various tonnages that cater to the needs of all types of customers. Players have launched numerous products, especially over the past five years, to plug gaps in tonnages.
- Demand for SCVs and ICVs continues to be driven by FMCG, e-commerce, and agriculture.
- · CNG adoption is more prominent in sub-one tonne and ICV segments. However, in past 6-8 months the CNG vehicles have witness a fall in demand especially due to increased CNG prices.
- The recently announced National Logistics Policy (NLP) aimed at easing the goods movement coupled with PM Gati Shakti National Master Plan (NMP) will magnify long haul movements, in turn the demand for MHCVs.
- Strong demand from construction, infrastructure, and mining activities are boosting Tipper volumes
- MHCV haulage seeing relatively slower ramp up on the retail side, but LFO participation is moderate.
- BS-VI phase 2 expected to be implemented from April 2023 entails addition of on-board self-diagnostic device (OBD2) to monitor real time emissions. The addition of OBD2 will also require upgrades to hardware and software of the vehicles to comply with the new norms which will entail increase in prices of vehicles by ~2-4%.

Financier

DEALER

LTVs and participation levels

- · SCVs are witnessing aggressive financing options and higher loan offerings
- · Thanks to the festive season, various attractive loan schemes are being offered to lure fleet operators
- Funding for retail customers in MHCV cargo and tippers has improved largely but still retail participation is slow in some segments. Most deals being closed are either LFO's or strategic customers.
- Cargo operators face issues with financing as several of them were unable to repay their loans
- With standardization in truck body building, financiers are expected to be more willing to fund the generally unsupported body building cost
- The impact of repo rate hikes by RBI must be monitored closely going forward. Hike in interest rates has caused some dampen in demand for more financing sensitive segments such as SCV.
- For some cases in retail funding, customer have been asked to present contract copy or guarantor particularly for MHCVs.
- · Demand in the buses segment is fuelled by largely by STUs and replacement demand. Also, financiers have been cautious and have increased number of checks in getting a loan approved.

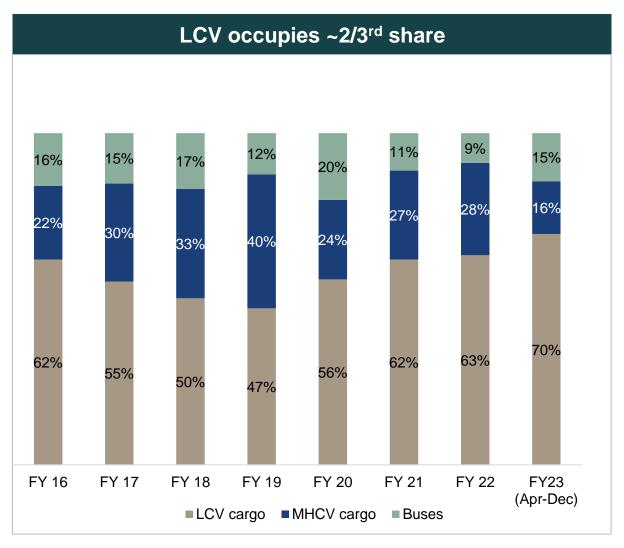


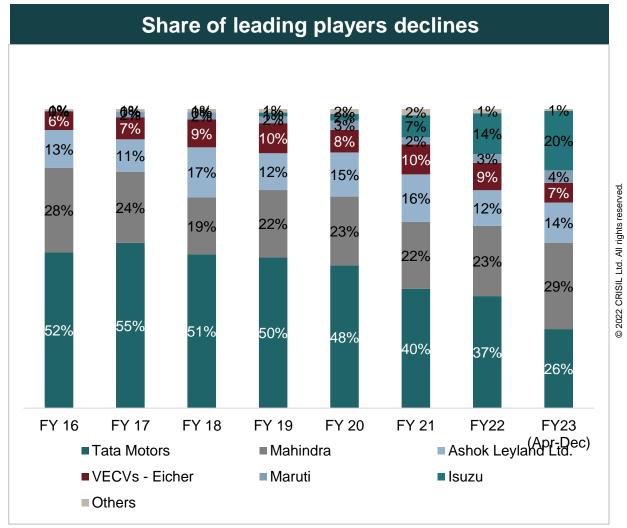


Commercial Vehicle exports



Share of LCV cargo on an uptrend



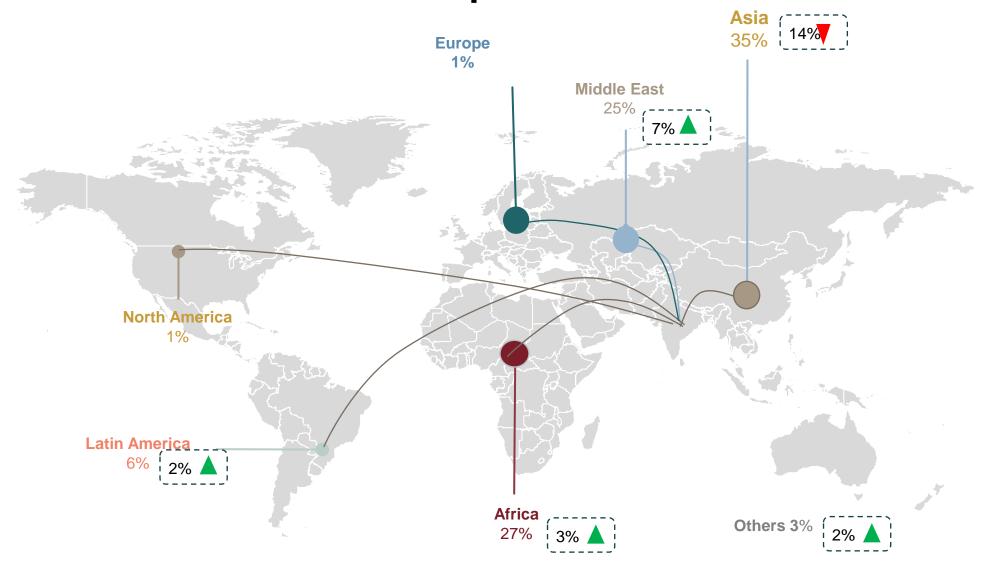


Source: SIAM, CRISIL MI&A

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Commercial vehicles exports



- Neighboring countries Nepal & Bangladesh continue to dominate Indian exports contributing 27% in FY23 (Apr-Nov)
- Bangladesh has taken the lead during the year
- South Africa contributes to 15% of India's exports while Saudi Arabia contributes 18% to exports

Market Intelligence

& Analytics Note: : Represents share of volume for FY23 (Apr-Nov) exports, % in dotted boxes indicates change in market share from FY22 to FY23

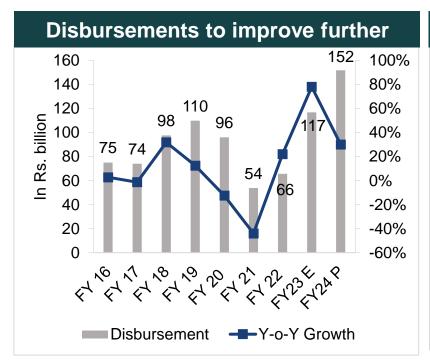
Source: DGFT, CRISIL MI&A

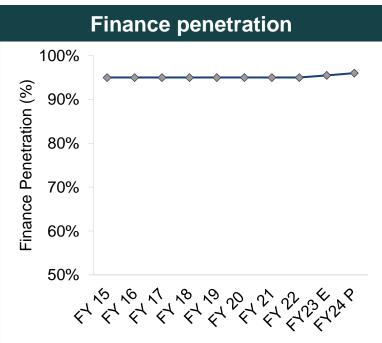


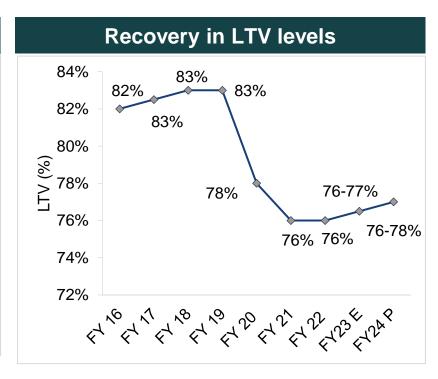
Three-wheelers



Improvement in financing scenario







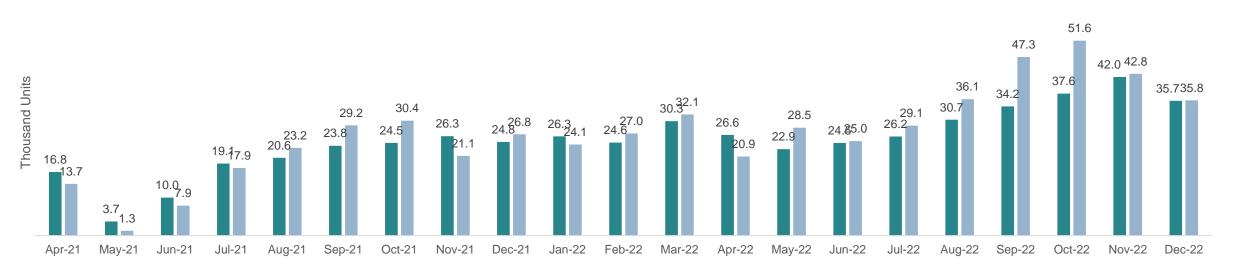
- Disbursement levels are rising from the bottom of FY21 backed by gradual improvement in sales, the improvement is expected to continue during FY23
- Three-wheeler financing market is expected reach Rs ~117 billion in fiscal 2023. However, there is sizeable scope of improvement compared to the pre pandemic levels
- With estimated improvement in the 3W market, financial parameters are expected to improve going ahead
- However, lenders are still being cautious while lending to this segment



27% q-o-q improvement in retails during Q3, inventory build up continued in Oct

Retails outpaced offtake during Q3





Note: Data does not include E rickshaw & E cart numbers

Source: SIAM, Vahan, CRISIL MI&A

- Festive retail was relatively healthy with m-o-m improvement
- Industry continued to do inventory built up during October
- Some inventory correction was done during November
- After the festive increase, there was some contraction in retail during the year end in December
- Similar trend was also witnessed in the price competitive E rickshaw segment as well
- Offtake witnessed q-o-q 16% growth vis a vis 27% growth clocked by retail



Domestic – Annual forecast

Sales	Units	Passenger	Goods	Total	EV penetration
FY21	'000	133	84	217	1%
y-o-y growth	%	-75%	-24%	-66%	
FY22	'000	184	83	267	4%
y-o-y growth	%	39%	-1%	23%	
FY23E	'000	380-385	108-113	490-500	6-8%
y-o-y growth	%	106-108%	32-34%	83-85%	
FY24P	'000	475-480	130-135	603-613	10-12%
y-o-y growth	%	24-26%	17-19%	22-24%	

Note: Includes EV 3W, does not include E Rickshaw Source – SIAM, CRISIL MI&A





Domestic – Quarterly forecast

Fiscal	Quarter	Passe	enger	Go	ods	То	tal
FISCAI	Quarter	Sales ('000)	y-o-y growth	Sales ('000)	y-o-y growth	Sales ('000)	y-o-y growth
	Q1	16.2	132%	9.4	59%	25.5	98%
FY22	Q2	48.5	83%	25.3	26%	73.8	58%
F 1 2 2	Q3	61.6	41%	24.0	-18%	85.6	18%
	Q4	59.2	6%	24.6	-16%	83.9	-1%
	Q1	55.9	246%	25.0	167%	80.9	217%
FY23 E	Q2	100.9	108%	25.6	1%	126.5	72%
1 123 L	Q3	114.9	87%	30.9	29%	145.8	70%
	Q4 E	108-113	86%	27-32	19%	137-142	66%
	Q1 P	68-73	25%	27-32	17%	97-102	22%
FY24 P	Q2 P	124-129	25%	29-34	17%	153-158	23%
F124 P	Q3 P	140-145	25%	33-38	17%	178-183	23%
	Q4 P	135-140	25%	34-39	21%	172-177	24%

- Three-wheeler industry is witnessing robust growth on a low base of previous years.
- Passenger segment is performing better as compared to the goods segment as urban movement in terms of schools, colleges, business and recreational outings has increased substantially.
- Festive demand was healthy backing 90% y-o-y growth during April-Dec period
- On this high base, some deceleration is expected during FY24.



Stakeholder interactions



OEMs

- Growth in passenger segment to back industry growth from a low base of previous years.
- Ulrban movement has been growing on account of normalcy. Businesses have also witnessed good growth which has led to an uptick in employment.
- Cargo sales expected to be impacted on the back of competition from electric vehicles. Increased cost of ownership for ICE vehicles is making customers consider EV's as an option.
- Growth is expected to continue through all quarters of fiscal 2023 as well as fiscal 2024 on account of a low base and improved movement in cities.
- On a high base of FY23, some moderation is expected in FY24
- Financers are more than willing to support which will further help improve retail momentum onground

Dealers



- Inventory built up was done in Q2
- Festive demand was healthy during Q3, some moderation in December for year change
- Post festive sales have decreased but are better compared to last year
- Inventory correction was done in Q3
- Inventory is for 20 days which is normal as rotation in the market has increased.
- Despite fuel hike, CNG still being preferred especially in the Passenger segment
- 3W EV vehicle enquiry has increased but the product is available in limited regions.
- High traction for competitively priced E rickshaw segment

Financier



- Given the increased retail demand financiers are a bit aggressive
- Financiers support is expected to improve going forward, in both the segments.
- LTV expected to be in the range of 95-100% which has increased in the near term
- Stance of the financers to remain accommodative

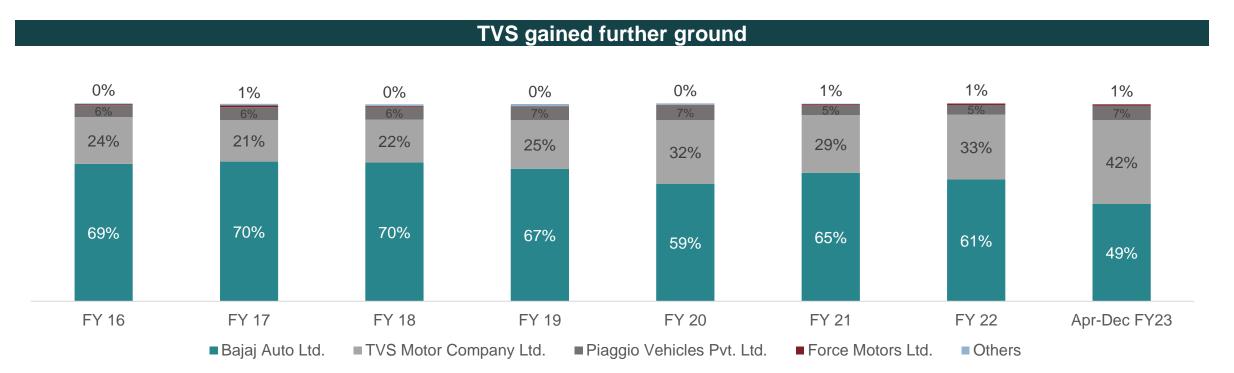




Three-wheeler exports



Exports contracted from the high base during YTD FY23



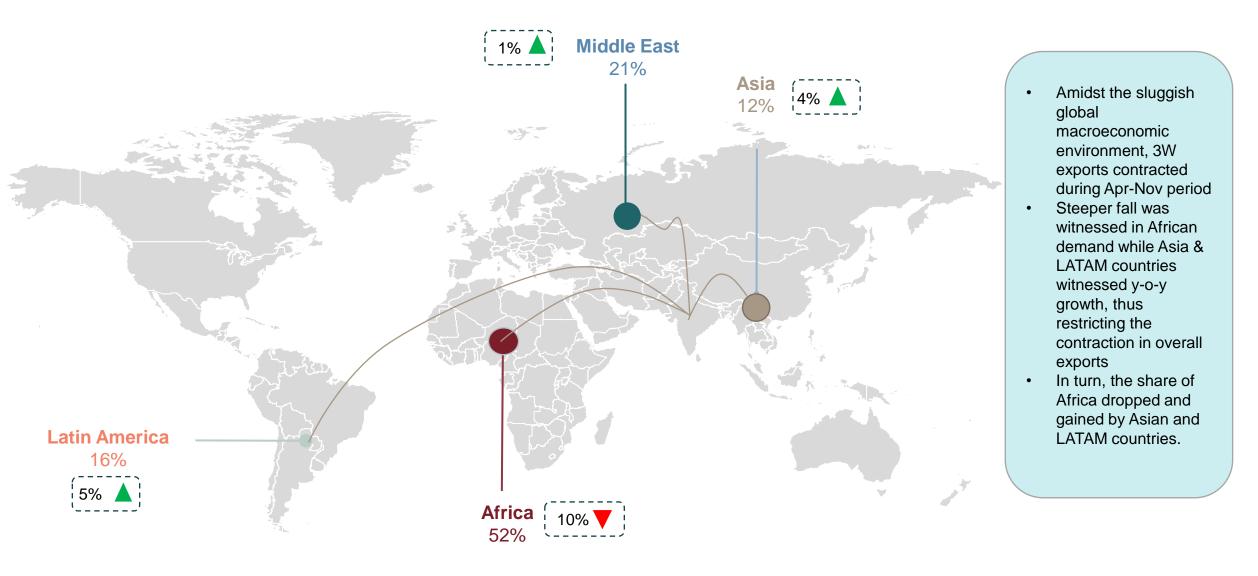
Source: SIAM, CRISIL MI&A

- FY22 witnessed sharp improvement in exports, exports grew 27% y-o-y, with smaller cargo segment registering a sharp growth of 82% y-o-y.
- On this high base, exports contracted 21% during Apr-Dec FY23 period
- Smaller cargo segment dropped at a steeper pace of 46%
- With retail sales improvement, OEMs are now focusing more on the domestic market.



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Three-wheeler exports



Market Intelligence & Analytics Note:: R



Source: DGFT, CRISIL MI&A

Tractors



Tractor demand is expected to rise in FY23 and FY24 after declining in FY22

Parameters		Impact	
	FY 22	FY23E	FY24P
Farm Income**			
Crop Prices			
Crop Output			
Kharif Output			
Rabi Output			
Demand Indicators			
Infrastructure Development			
Sand Mining			
Supply side variables & financing			
Finance Availability			
Channel Inventory			
Player Action			

Favorable

Neutral

Not Favorable

NOTE: ** FY24 assumed neutral assuming normal monsoon,

FY15 FY16 FY17 FY18 FY19 FY20 FY21 FY22 FY23E -3% -9%

■ Rainfall Deviation

NOTE: Rainfall deficiency in the range of -10% to 10% of the long period average is considered as normal as per IMD. P: Projected Source: IMD, CRISIL MI&A

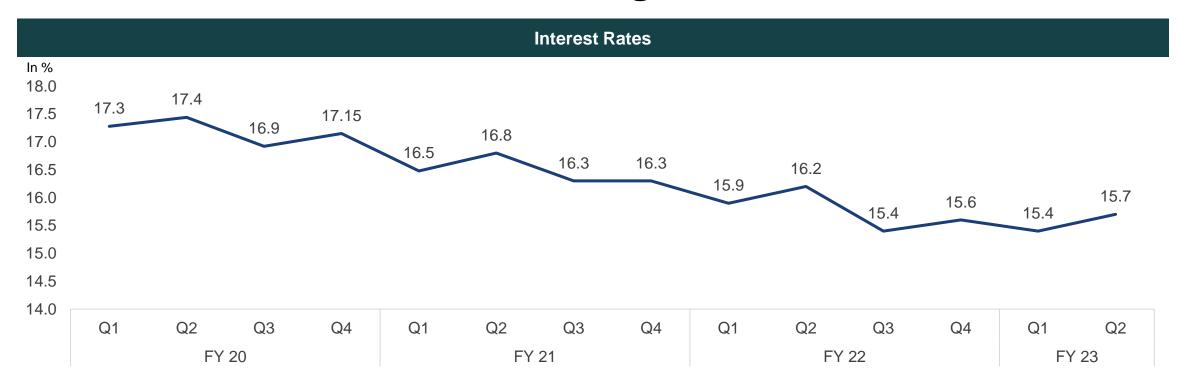


Notes: Storage Status of 143 Reservoirs of the Country

- Healthy reservoir levels, above normal monsoon and announcement of higher MSP for crops contributed towards positive farmer sentiments thereby pushing retail momentum.
- Good moisture content in the soil and positive Rabi outlook to further support demand.
- Southern & Western regions have witnessed above normal rainfall while other parts have received normal rainfall.
- The country witnessed excess rainfall during September and first half of October
- Overall healthy monsoon has improved the reservoir levels, leading to high moisture content in the soil, which is very positive for higher food grain production in the upcoming rabi season



Tractor interest rates to remain range bound



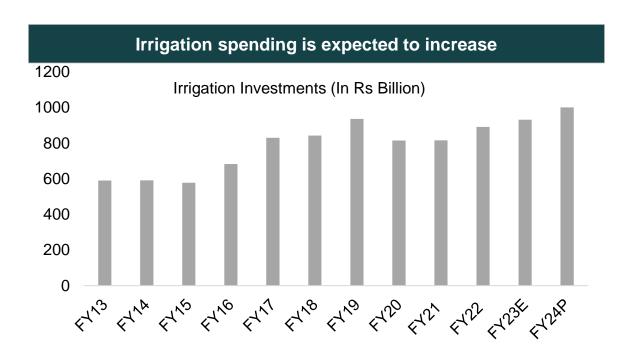
NOTE: Interest rates for Q2FY23 is not yet released by leading financiers

Source: CRISIL MI&A

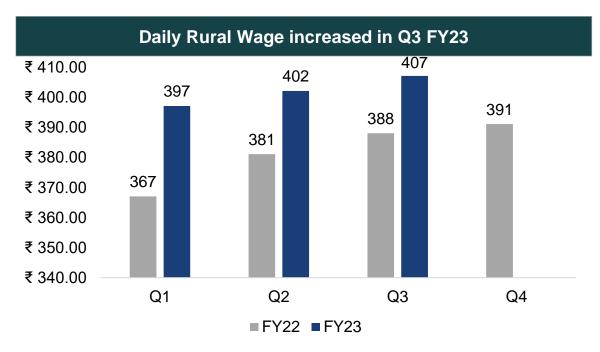
- Financers are aggressive in lending.
- The Minimum support price for wheat is good, which means the farm cash flows are expected to be better.
- Overall rural market is doing extremely well and the sentiments are very positive. They expect good collections.
- We expect LTVs to increase marginally in FY24.
- The entry of private financiers over the past few years has also increased finance availability.



State funded irrigation construction capex to rise in FY23



Source: Department of Agriculture, Cooperation & Farmers Welfare, CRISIL MI&A P: Projected



Rural wages includes general non-agricultural labour.

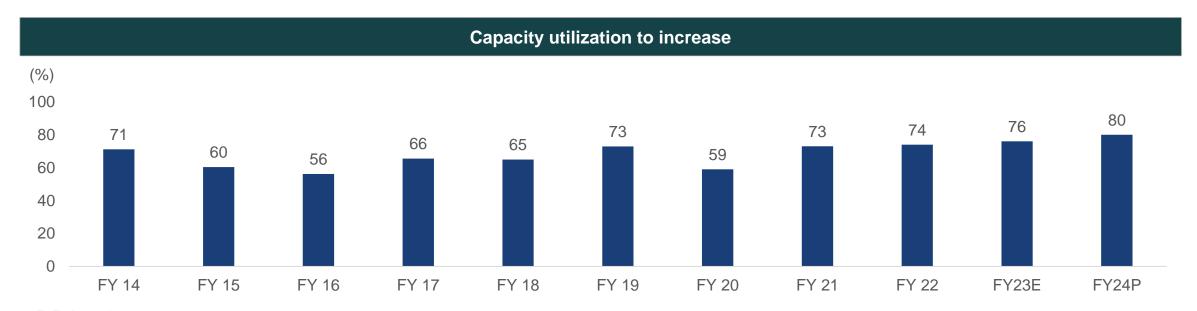
Source: RBI, CRISIL MI&A

- · Spending in irrigation by states to increase, Centre to focus on monitoring.
- Construction spends in irrigation is projected to rise to Rs 4.3-4.5 lakh crore over fiscals 2023 to fiscal 2027 from Rs 3.2 lakh crore over the past five years (fiscal 2018 to 2022) owing to the push from state governments to increase irrigation penetration in states.
- The government has increased the spending requirement by state governments from 32% to 42%, in line with greater transfer of taxes to states.
- The central government will play an active role in monitoring the progress of PMKSY projects and has taken several steps to crystallize investments for irrigation.





Capacity utilization to improve in FY23 with improved offtake



E: Estimated Source: CRISIL MI&A

- In fiscal 2023, It is estimated that the capacity utilization of the players will increase to 76% due to higher volume growth expected in the fiscal.
- ITL, manufacturing both higher and lower horsepower tractors, is continuing to expand its overseas footprint by launching tractors in the 90-120 hp range for developed markets.
- CNH has plans of doubling its tractor manufacturing capacity to 1 lakh units. Already the capacity has been expanded to 65,000 units in April.
- By the end of 2023, CNH wants to take it up to 75,000 units, before scaling it to 1 lakh units per annum, given the fact that India will serve both the domestic market as well as exports.



TREM IV norms have come into effect from 1st January'23.

Consulting

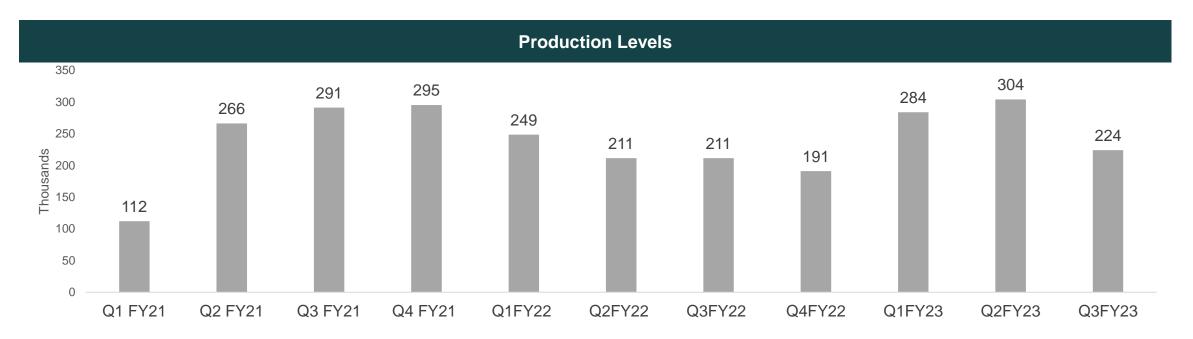
Emission standard stage	Engine Power	Market share	Date	СО	HC+Nox	РМ		
	HP			g/kWh				
Trem Stage III A	11 to 25HP	9%	1st April 2010	5.5	8.5	0.8		
	25 to 50HP	84%	1st April 2010	5.5	7.5	0.6		
	50 to 75 HP	7%	1st April 2010	5	4.7	0.4		
	11 to 25HP	8%	No change					
Trem Stage IV	25 to 50HP	84%						
	50 to 75 HP	8%	1st April 2022	5	4.7	0.025		

Source: Industry, CRISIL MI&A

- TREM IV norms applicable only on 50HP and above tractor segment forming ~10% of domestic sales, thus we expect limited impact on tractor industry.
- Although major technological changes are available with OEMs, the pass through of the incremental cost, related to the technological changes, to the farmers is likely to be a challenge.
- Cost escalations to the tune of 10-12% is expected.



Production levels are lower in Q3 due to lean months



Source: CRISIL MI&A

- Several OEMs have ramped up their production in Q2
- · Retail demand remained strong during festive.
- Production levels are at 6% higher levels in Q3 FY23 in comparison to last year.
- OEMs extended schemes which were launched in the festive season to boost retail sales since these schemes saw healthy uptake during the festive season.
- Also, healthy reservoir levels, above normal monsoon and announcement of higher MSP for crops contributed towards positive farmer sentiments thereby pushing
 retail momentum.



Domestic – Annual & Quarterly forecast

	Units	Sales
FY22	Millions	0.84
y-o-y growth	%	(6)%
FY23E	Millions	0.91-0.93
y-o-y growth	%	8-10%
FY24P	Millions 0.92-0.93	
y-o-y growth	%	(1)-1%

Fiscal	Quarter	Tractors	
		Sales ('000)	y-o-y growth
FY22	Q1	229	40%
	Q2	211	-11%
	Q3	223	-13%
	Q4	117	-25%
FY23 E	Q1	265	16%
	Q2	217	3%
	Q3	247	11%
	Q4 E	192-195	8-10%
FY24 P	Q1 P	253-259	(4)-(2)%
	Q2 P	212-216	(4)-(2)%
	Q3 P	250-255	1-3%

Source - TMA, CRISIL MI&A

- Domestic tractor demand is expected to clock 8-10% on-year growth in fiscal 2023 after declining by 6.2% on-year in fiscal 2022.
- Good crop prices at the beginning of the fiscal, healthy reservoir levels due to a above normal monsoon season and higher MSP announcement has all led to positive farmer sentiments.
- Overall Festive demand was positive this year due to various schemes and discounts offered by OEMs.
- This has supported retail growth momentum..



Stakeholder interactions



OEMs

- Healthy demand due to positive farmer sentiments on the back of higher crop prices, healthy reservoir levels have boosted sales.
- Rising demand of lower hp tractors with good moisture content has led to increase in sales.
- However, in States like Bihar and West Bengal erratic rainfall, slower construction activities and ban on sand mining has led to negative farmer sentiments.
- Tractor subsidies in States, like Maharashtra, has further created good delivery momentum.
- Lot of schemes and discounts offered during festive continues to boost sales further.

Dealers



- Rabi sowing has been in track with slight delay in few states.
- Rabi yield is expected to be good this time considering favorable weather conditions.
- · Crop prices looks positive.
- Stock levels are very high at dealer level inventory.

 However, the players are in push mode and correction is not expected till March.
- Dealers are taking hit in their margins due to tractor price hikes undertaken by OEMs.
- Commercial activities are slowly resuming but the there is still ban on sand mining in most of the states. Thus, commercial contribution has been lower.

Financier



- Financing is robust with lucrative terms of credit offered during festive continues
- Disbursements to increase at a moderate pace in FY24.
- Non-performing assets are higher in public banks as compared with private banks and NBFCs.
- LTVs are estimated to have grown from 75.5% in to 76% in fiscal 2023.
- Financing situation in certain states are worrisome with rising NPA levels and is a key monitorable in the coming months as funding levels could be significantly impacted



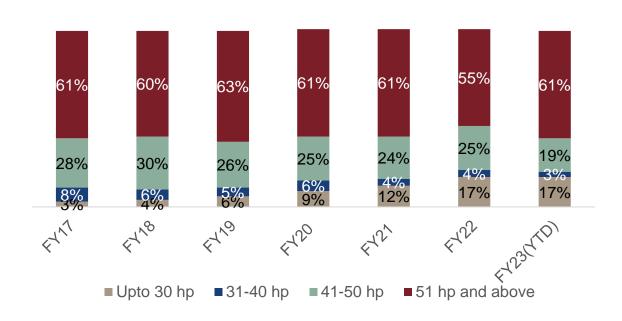
Tractor exports

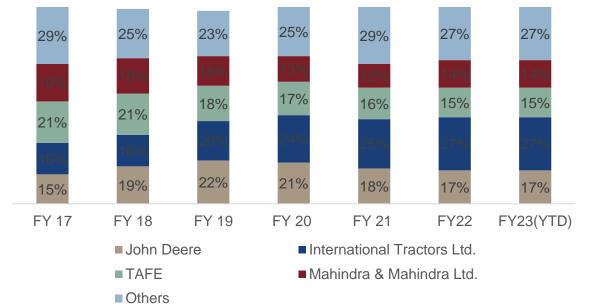


Tractor exports to rise in FY23 despite a high base of FY22



Player wise market share of exports





Note: YTDSource: CRISIL MI&A

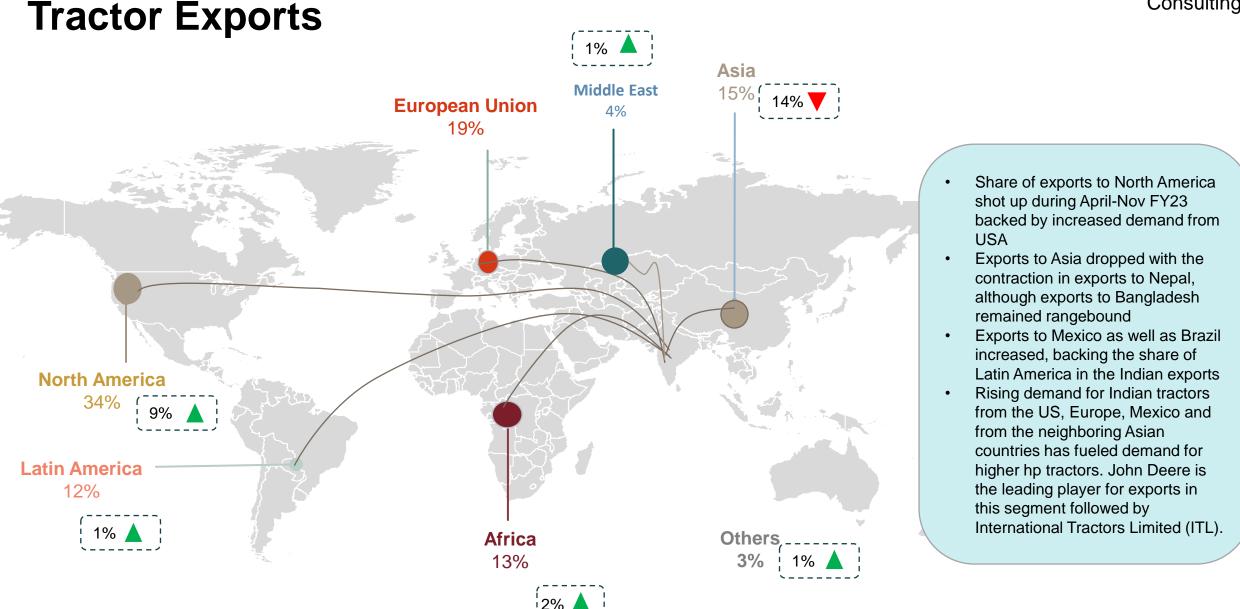
Source: CRISIL MI&A

- Share of exports in the overall Indian tractor market is around 13% in FY23
- Exports is estimated to grow by 2-4% on-year in fiscal 2023 over a high base of fiscal 2022.
- Demand for Indian tractors has been high in Bangladesh, the USA, Mexico and European countries.
- Export demand is expected to be slower in H2 FY23 with lower demand from the USA and Europe amidst rising inflation.
- In fiscal 2024, we expect slower growth in exports primarily anticipating slowdown in the developed economies amid rising inflation and Global recessionary outlook.

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Source: DGFT, CRISIL MI&A

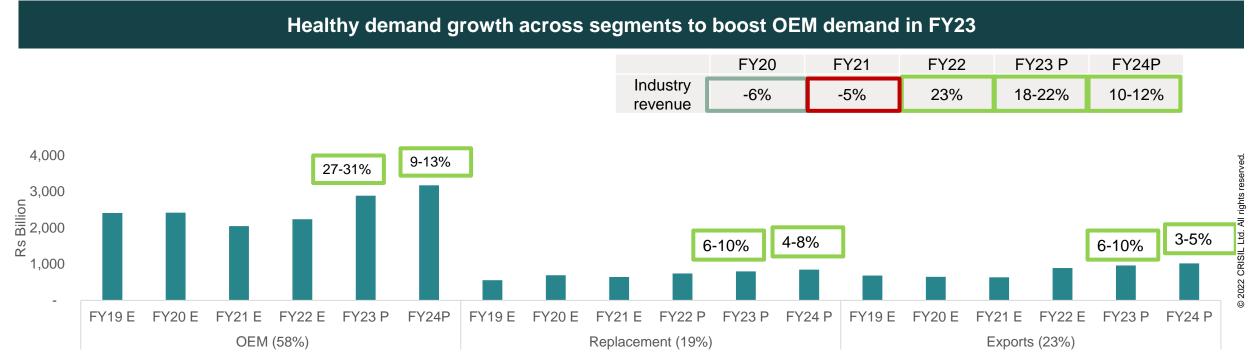
Note: : Represents volume data for FY23 April-Aug exports, % in dotted boxes indicates change in market share from FY22 to FY23



Auto Components



Some deceleration in growth in FY24 from a high base of FY23



Note: Coloured brackets represent y-o-y growth; Numbers in the bracket in the axis represent share in production for FY22

Source: CRISIL MI&A

- In fiscal 2023, the OEM segment (58% of revenues) is likely to witness robust growth; PV and CV segments to provide the thrust in fiscal 2023. On a lower base, two-wheeler and three-wheeler segments are also estimated to improve and support the component industry growth
- Exports (23% of revenues) are projected to increase by 6-10% in fiscal 2023, with high inflation and economic slowdown acting as headwinds
- Replacement demand (19% of revenues) is expected to grow by 6-10% in fiscal 2023, driven by higher vehicle movement and the high sales witnessed in FY18-19
- On this high base, demand growth rates are expected to moderate in FY24, decelerating the growth of components segment as well

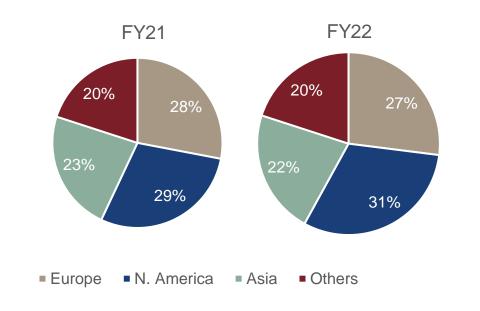


Sluggish economic growth expectation to impact export growth in FY24

Export demand expected to grow in FY 23

Developed nations support exports





Note: Brackets represent y-o-y growth;

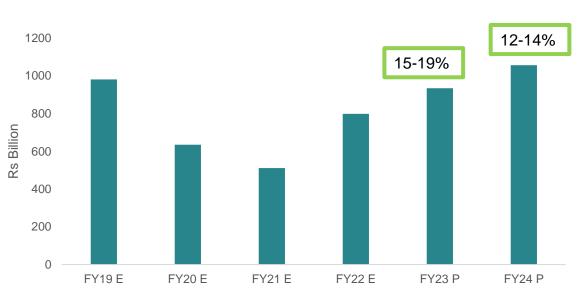
Source: CRISIL MI&A Source: DGFT, CRISIL MI&A

- Auto component exports (accounting for 23% of the overall demand in FY22) are projected to witness 6-10% growth over the high double-digit growth witnessed in FY22
- The growth would be on the back of healthy demand from North America and Europe which together contributed 58% to the export demand during FY22.
- Export revenues are also expected to be supported by the global demand and China +1 strategy.
- In FY24, on the high base of FY23, exports growth is estimated to taper down amidst the sluggish economic global growth expectations. The high inflation and global economic slowdown remain key monitorables going ahead.

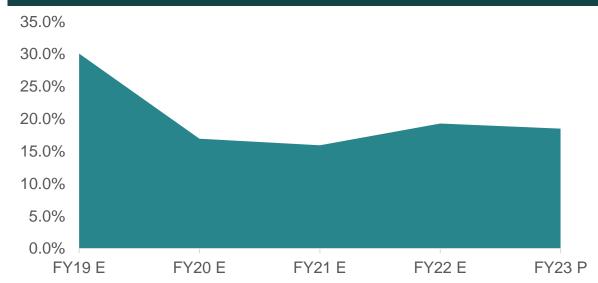


Increased traction to back higher import demand in fiscal 2023

Healthy rise in import demand during FY23



However, the share in consumption to subdued



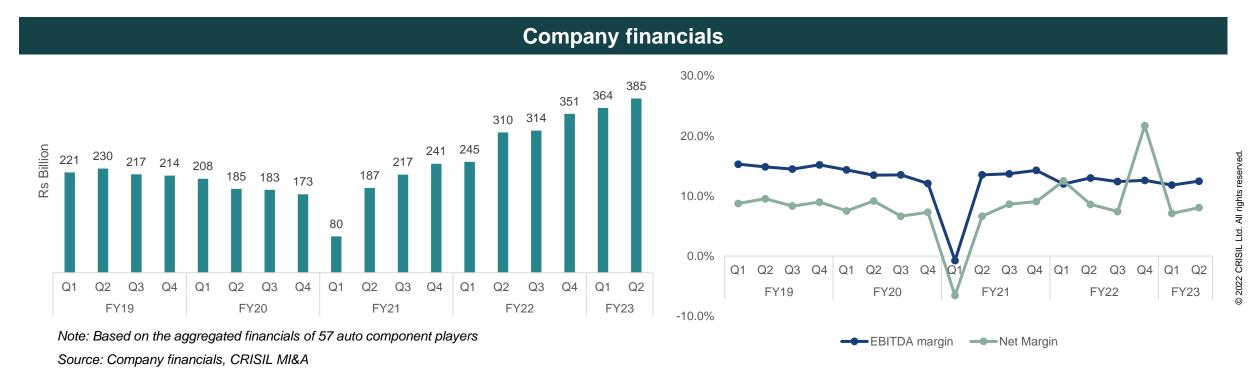
Source - DGFT, CRISIL MI&A

Source: DGFT, CRISIL MI&A

- Auto component imports to improve in fiscal 2023 with improving domestic vehicle production.
- Going ahead, import demand is likely to grow led by a recovery in domestic market.
- In fiscal 2023, we expect imports to increase by 15-19% amidst the increased need of components for higher domestic demand.
- However, faster domestic consumption growth of 21-25% will contract the share of imports.
- In FY24, consumption growth pace is estimated to taper down, some moderation is expected in import demand growth as well



EBITDA margins to improve in FY23 & FY24, led by correction in raw material prices



- Gradual increase in aggregate revenue of players in the last 3 quarters backed by increased demand
- Profitability to improve in fiscal 2023 and 2024, led by a recovery in demand and correction in raw material prices
- In FY23, operating margins of auto component manufacturers to improve by ~70-100 bps due to operating leverage as well as correction in input costs.
- The basic raw material index (BRMI), which reflects ~27% of raw material costs of the industry is expected to decrease in fiscal 2023.



Thank You



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