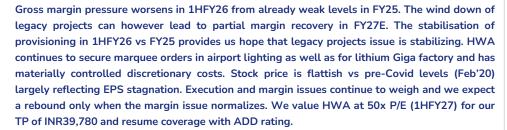
Honeywell Automation India | ADD

Margins struggle till legacy projects continue



- Order inflows are decent over FY22-25 but execution issues continue to haunt: HWA order inflow growth from third parties over FY22-25 has ranged between 11-31% (FY22: 31% FY23/FY24: 11% and FY25: 14%) which in our view is healthy. However, the sales growth CAGR from third-parties was 7% (FY22-25) and that from other Honeywell global affiliates were at 22% CAGR, resulting in overall revenue CAGR of 12%. Further, India growth CAGR at 10% trailed exports at 17% (FY22-25). This potentially highlights execution issues in India as related parties account for almost the entire exports.
- HWA appears to be facing cost overrun issues at legacy projects for third parties: HWA has increased provisioning for onerous contracts where it expects costs to complete projects. In FY25 INR1.0bn of fresh provisions were created taking overall provisions (net of use and reversals) to INR0.80bn (3% of third party sales /2% overall sales in FY25) which are at decadal peaks. In 1HFY26 the provision levels are stable vs. FY25 highlighting some stabilisation. If the trend persists in 2HFY26 the issue of legacy orders maybe behind for the time being (FY27+).
- Order prospects are strong, resolution of legacy contracts and services recovery can revive margins: HWA appears to have implemented cost controls reflected in falling other expenses levels (lower travel cost potentially reflecting slower 7% CAGR in services over FY22-25). Global management aspires for <u>USD1.0bn revenues in CY25</u> from India (vs USD900mn in CY24) and double digit growth over next several years. HWA has secured marquee contracts among which is aircraft ground lighting at Noida airport, a lithium giga factory automation order among others. Management is focusing on automation in industrials and buildings and on energy transition and has highlighted strong prospects in the annual report.
- 1HFY26 witnessed execution and margin challenges that may persist into 2HFY26: 2QFY26 sales at INR11.5bn (+12% YoY, -3% QoQ) missed our estimate by 3%. Gross margins at 37.1% (down 110bp YoY) is lower than historic levels of 40-50% highlighting legacy project issues. As a result EBITDA margin at 11.4% (down 100bp YoY) missed our estimate by 70bp. PAT at INR1.20bn (+4% YoY) missed our estimate by 5%. The margin challenges may persist into 2HFY26 as legacy orders wind down.
- Value at 50x P/E 1HFY27, valuations reasonable but share price uptick maybe delayed till legacy issues are sorted: Our P/E is at the lower end (-1 Stdev of 5Y average) of post Covid range of 50-65x to derive a TP of INR39,780. We resume coverage with ADD rating. With emerging clarity on margins and services rebound stock can rebound to INR50,000 levels (~60x P/E). Further rise in legacy project share in the orderbook mix leading to persistent weakness of gross margins is the key downside risk (up to 8-9% downside)

Financial Summary					(INR mn)
Y/E March	FY24A	FY25A	FY26E	FY27E	FY28E
Net Sales	40,582	41,896	46,658	52,247	58,508
Sales Growth (%)	17.7	3.2	11.4	12.0	12.0
EBITDA	5,894	5,846	5,484	6,772	9,325
EBITDA Margin (%)	14.5	14.0	11.8	13.0	15.9
Adjusted Net Profit	5,014	5,236	4,936	6,012	8,047
Diluted EPS (INR)	567.1	592.2	558.2	680.0	910.1
Diluted EPS Growth (%)	14.5	4.4	-5.7	21.8	33.9
ROIC (%)	50.0	51.4	44.4	47.1	55.9
ROE (%)	14.8	13.7	11.6	12.8	15.2
P/E (x)	62.7	60.0	63.6	52.3	39.0
P/B (x)	8.7	7.8	7.1	6.4	5.6
EV/EBITDA (x)	49.5	49.1	51.8	41.5	29.6
Dividend Yield (%)	0.3	0.3	0.3	0.3	0.4

Source: Company data, JM Financial. Note: Valuations as of 14/Nov/2025



Priyankar Biswas

priyankar.biswas@jmfl.com | Tel: (91 22) 69703622

Nilesh Soni

nilesh.soni@jmfl.com | Tel: (91 22) 66303372

Neelotpal Sahu

neelotpal.sahu@jmfl.com | Tel: (91 22) 69703660

Recommendation and Price Target	
Current Reco.	ADD
Previous Reco.	NR
Current Price Target (12M)	39,780
Upside/(Downside)	12.0%
Previous Price Target	0
Change	NA

Key Data – HWA IN	
Current Market Price	INR35,530
Market cap (bn)	INR314.1/US\$3.5
Free Float	24%
Shares in issue (mn)	8.8
Diluted share (mn)	8.8
3-mon avg daily val (mn)	INR158.6/US\$1.8
52-week range	43,800/31,025
Sensex/Nifty	84,563/25,910
INR/US\$	88.7

Price Perform	ance		
%	1M	6M	12M
Absolute	-1.7	-6.2	-15.6
Relative*	-2.4	-8.7	-22.6

^{*} To the BSE Sensex

JM Financial Research is also available on: Bloomberg - JMFR <GO>, FactSet, LSEG and S&P Capital IQ.

Please see Appendix I at the end of this report for Important Disclosures and Disclaimers and Research Analyst Certification.

Results impacted by gross margin headwinds

■ Sales largely along expected lines: Sales at INR11.49bn (+12% YoY, -3% QoQ) was modestly below our estimates but largely along seasonal trends.

- Gross margin weakness continues resulting in EBITDA miss: Gross margin at 37.1% (down 110bp YoY and 30bp QoQ) was weaker than our estimate of 37.5%. We believe continuing losses on "legacy" domestic orders is impacting margins (INR1.0bn+ of fresh provisions were made in FY25 on loss orders). This led EBITDA margin at 11.4% (down 115bp YoY, 50bp QoQ) missing our estimate of 12.1%. EBITDA at INR1.32bn (+2% YoY, -7% QoQ) thus missed our estimates by 8%.
- PAT missed as well by 5%: PAT at INR1.20bn (+4% YoY, -4% QoQ) thus missed our estimates. The miss was moderated by slightly higher other income levels

Exhibit 1. HWA results	s summary: Ma	argin weaknes	s still continue	es possibly dri	ven by legacy	domestic orde	ers		
INR mn	2QFY25	3QFY25	4QFY25	1QFY26	2QFY26	JMFe	% YoY	% QoQ	vs JMFe
Revenue	10,239	10,908	11,145	11,831	11,494	11,831	12%	-3%	-3%
COGS	6,328	7,056	6,733	7,407	7,232				
Gross profit	3,911	3,852	4,412	4,424	4,262	4,437	9%	-4%	-4%
Gross profit margin (%)	38.2%	35.3%	39.6%	37.4%	37.1%	37.5%	(112)	(31)	(42)
Employee expenses	1,795	1,835	1,785	2,169	2,016	2,150	12%	-7%	-6%
% of sales	17.5%	16.8%	16.0%	18.3%	17.5%	18.2%			
Other expenses	826	597	1,033	840	930	850	13%	11%	9%
% of sales	8.1%	5.5%	9.3%	7.1%	8.1%	7.2%			
EBITDA	1,290	1,420	1,594	1,415	1,316	1,437	2%	-7%	-8%
EBITDA margin (%)	12.6%	13.0%	14.3%	12.0%	11.4%	12.1%	(115)	(51)	(69)
DDA	135	138	139	134	129	135			
EBIT	1,155	1,282	1,455	1,281	1,187	1,302	3%	-7%	-9%
EBIT margin (%)	11.3%	11.8%	13.1%	10.8%	10.3%	11.0%	(95)	(50)	(67)
Finance costs	14.0	22.0	19.0	19.0	22.0	19.0			
Other income	412	500	466	418	442	400			
PBT	1,553	1,760	1,902	1,680	1,607	1,683	3%	-4%	-4%
PBT margin (%)	15.2%	16.1%	17.1%	14.2%	14.0%	14.2%	(119)	(22)	(24)
Taxes	402	439	503	434	412	424			
Tax rate (%)	25.9%	24.9%	26.4%	25.8%	25.6%	25.2%			
PAT	1,151	1,321	1,399	1,246	1,195	1,259	4%	-4%	-5%
PAT margin (%)	11.2%	12.1%	12.6%	10.5%	10.4%	10.6%	(84)	(13)	(25)
No of shares	8.84	8.84	8.84	8.84	8.84	8.84			
EPS	130.18	149.41	158.23	140.93	135.16	142.41			

Source: Company, JM Financial

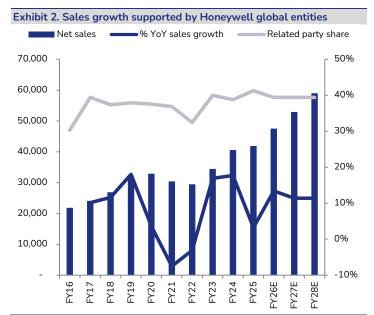
Margin issues appear to be in domestic orders; potential margin revival from FY27E as provisioning levels seem to stabilise

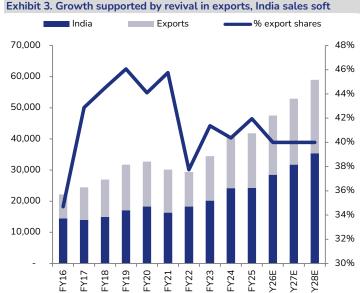
We have witnessed healthy increase in third party order inflows from FY22 to FY25. Third party ordering growth has ranged from peaks of 31% in FY22 to 11%-14% levels over FY23-25 (14% YoY in FY25) which in our view appears robust. Despite healthy growth in orders, execution in these orders has witnessed a modest CAGR of 7% over FY22-25 highlighting execution issues as the growth clearly trails ordering growth.

Sales to related parties are robust at 22% CAGR to INR17.3bn in FY22-FY25 supporting strong export CAGR of 17% ahead of domestic sales CAGR of 10% (FY22-25). Exports now appear to be entirely to global Honeywell entities. The services CAGR has been modest at 7% over FY22-25 to INR12bn highlighting growth is driven by product sales (even within exports product sales are robust).

Gross margins have fallen from peak levels of 45-50% prevailing earlier to 37% in 1HFY26. While declining service revenues in the mix is a reason it does not appear to be the principal driver. Rise in provisioning for legacy orders (fresh provisions of INR1.0bn made in FY25) suggest issues in domestic execution and significant cost overruns. The provision for legacy orders on 1HFY26 balance sheet appears stable vs. FY25 levels and thus on the margin, situation appears to be stabilizing (though not declining yet).

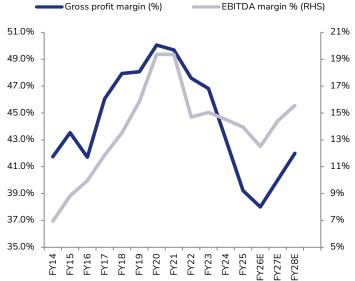
We believe once the issue of legacy orders are behind, gross margins can recover to 40-45% ranges which can drive potential re-rating. We note management has brought in cost controls which has reduced other discretionary expenses like travel and conveyance cost





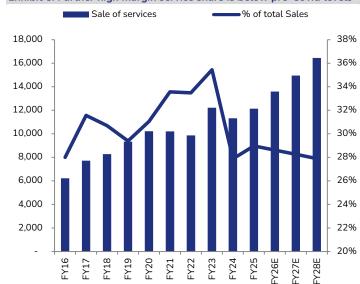
Source: Company, JM Financial





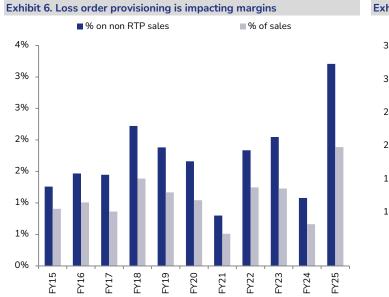
Source: Company, JM Financial

Exhibit 5. Further high margin service share is below pre-Covid levels



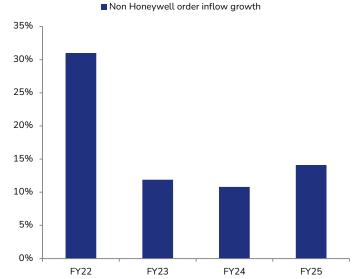
Source: Company, JM Financial

Source: Company, JM Financial



Source: Company, JM Financial

Exhibit 7. Non Honeywell order inflows robust (double digits)



Source: Company, JM Financial

Ordering outlook robust; marquee orders secured for airports and lithium Giga factories secured

HWA has secured marquee contracts among which is aircraft ground lighting at Noida airport, a lithium Giga factory automation order among others. Management is focusing on automation in industrials and buildings and on energy transition and highlighted strong prospects in the annual report for FY25.

Further, global management has stated its <u>intent</u> to increase revenues from India (HWA is one part of it) to USD1.0bn in CY25 from USD0.9bn in CY24. Further, management expects double digit growth as well coupled with reviving software sales from India.

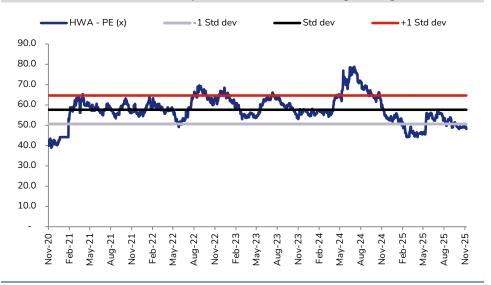
Value at 50x 1HFY27 P/E (in-line with SIEM/ABB); resume coverage with ADD rating; margin recovery can drive re-rating

Healthy third party order inflows over the years coupled with increased focus of Honeywell Inc. (HON US) on India as a high growth market should drive revenue growth. However, the weakness of gross margins is a key investor concern. We believe margins can recover once the legacy loss orders are completed and can normalize to 40-45% levels.

In the event gross margins normalize we should witness benefits of operating leverage (as cost structure is now leaner on controls over discretionary costs) on EBITDA margins (HWA had earlier achieved EBITDA margins around 18-21%). The margin expansion can re-rate the stock to 60-70x (based on past trends) and can lead to stock trading close to INR50,000+ levels.

Till such time we believe a 50x P/E in-line with peers SIEM and ABB appears justified and thus we derive a TP of INR39,780 and resume coverage with ADD rating.

Exhibit 8. HWA 1Y fwd P/E is currently at lower end of valuation range limiting downside risks



Source: Bloomberg

Investment risks

- Persistence of weak gross margins as loss order impact continues longer than expected.
- Decrease in sourcing by global Honeywell entities can impact exports and margins.
- Potential execution issue is large domestic order leading to further provisioning for loss orders.

Financial Tables (Standalone)

Income Statement (INR mn					
Y/E March	FY24A	FY25A	FY26E	FY27E	FY28E
Net Sales	40,582	41,896	46,658	52,247	58,508
Sales Growth	17.7%	3.2%	11.4%	12.0%	12.0%
Other Operating Income	0	0	0	0	0
Total Revenue	40,582	41,896	46,658	52,247	58,508
Cost of Goods Sold/Op. Exp	23,112	25,463	29,161	31,871	33,934
Personnel Cost	6,600	7,256	8,081	8,882	9,361
Other Expenses	4,976	3,331	3,932	4,723	5,887
EBITDA	5,894	5,846	5,484	6,772	9,325
EBITDA Margin	14.5%	14.0%	11.8%	13.0%	15.9%
EBITDA Growth	13.6%	-0.8%	-6.2%	23.5%	37.7%
Depn. & Amort.	537	544	569	555	565
EBIT	5,357	5,302	4,915	6,217	8,760
Other Income	1,428	1,821	1,803	1,952	2,151
Finance Cost	36	67	67	67	67
PBT before Excep. & Forex	6,749	7,056	6,651	8,101	10,844
Excep. & Forex Inc./Loss(-)	0	0	0	0	0
PBT	6,749	7,056	6,651	8,101	10,844
Taxes	1,735	1,820	1,716	2,090	2,797
Extraordinary Inc./Loss(-)	0	0	0	0	0
Assoc. Profit/Min. Int.(-)	0	0	0	0	0
Reported Net Profit	5,014	5,236	4,936	6,012	8,047
Adjusted Net Profit	5,014	5,236	4,936	6,012	8,047
Net Margin	12.4%	12.5%	10.6%	11.5%	13.8%
Diluted Share Cap. (mn)	8.8	8.8	8.8	8.8	8.8
Diluted EPS (INR)	567.1	592.2	558.2	680.0	910.1
Diluted EPS Growth	14.5%	4.4%	-5.7%	21.8%	33.9%
Total Dividend + Tax	840	840	840	1,023	1,369
Dividend Per Share (INR)	95.0	95.0	95.0	115.7	154.9

Balance Sheet					(INR mn)
Y/E March	FY24A	FY25A	FY26E	FY27E	FY28E
Shareholders' Fund	36,062	40,382	44,478	49,467	56,144
Share Capital	88	88	88	88	88
Reserves & Surplus	35,974	40,294	44,390	49,379	56,056
Preference Share Capital	0	0	0	0	0
Minority Interest	0	0	0	0	0
Total Loans	0	0	0	0	0
Def. Tax Liab. / Assets (-)	-703	-910	-910	-910	-910
Total - Equity & Liab.	35,359	39,472	43,568	48,557	55,234
Net Fixed Assets	1,717	2,048	2,164	2,297	2,420
Gross Fixed Assets	3,385	3,927	4,427	4,927	5,427
Intangible Assets	0	3	0	0	0
Less: Depn. & Amort.	1,687	1,914	2,295	2,662	3,039
Capital WIP	19	32	32	32	32
Investments	0	0	0	0	0
Current Assets	46,531	53,088	58,037	63,908	71,303
Inventories	1,591	2,372	2,717	2,969	3,161
Sundry Debtors	9,347	10,860	12,077	13,506	15,106
Cash & Bank Balances	28,230	32,912	35,506	38,844	43,492
Loans & Advances	0	0	0	0	0
Other Current Assets	7,363	6,944	7,737	8,589	9,544
Current Liab. & Prov.	12,889	15,664	16,633	17,648	18,489
Current Liabilities	8,294	9,629	10,769	11,624	12,285
Provisions & Others	4,595	6,035	5,865	6,025	6,204
Net Current Assets	33,642	37,424	41,404	46,259	52,814
Total – Assets	35,359	39,472	43,568	48,557	55,234

Source: Company, JM Financial

Source: Company, JM Financial

Cash Flow Statement (INR mn)					
Y/E March	FY24A	FY25A	FY26E	FY27E	FY28E
Profit before Tax	5,014	5,236	4,936	6,012	8,047
Depn. & Amort.	537	544	569	555	565
Net Interest Exp. / Inc. (-)	36	67	67	67	67
Inc (-) / Dec in WCap.	-302	-31	-1,385	-1,518	-1,906
Others	-898	-1,553	-1,803	-1,952	-2,151
Taxes Paid	0	0	0	0	0
Operating Cash Flow	4,387	4,263	2,383	3,164	4,621
Capex	-320	-276	-685	-688	-688
Free Cash Flow	4,067	3,987	1,698	2,476	3,933
Inc (-) / Dec in Investments	0	-3	0	0	0
Others	1,396	1,737	1,803	1,952	2,151
Investing Cash Flow	1,076	1,458	1,118	1,264	1,463
Inc / Dec (-) in Capital	0	0	0	0	0
Dividend + Tax thereon	-840	-884	-840	-1,023	-1,369
Inc / Dec (-) in Loans	0	0	0	0	0
Others	-188	-155	-67	-67	-67
Financing Cash Flow	-1,028	-1,039	-907	-1,090	-1,436
Inc / Dec (-) in Cash	4,435	4,682	2,594	3,337	4,648
Opening Cash Balance	23,795	28,230	32,912	35,506	38,844
Closing Cash Balance	28,230	32,912	35,506	38,844	43,492

Source: Company, JM Financial

Dupont Analysis					
Y/E March	FY24A	FY25A	FY26E	FY27E	FY28E
Net Margin	12.4%	12.5%	10.6%	11.5%	13.8%
Asset Turnover (x)	1.2	1.1	1.1	1.1	1.1
Leverage Factor (x)	1.0	1.0	1.0	1.0	1.0
RoE	14.8%	13.7%	11.6%	12.8%	15.2%
Key Ratios					
Y/E March	FY24A	FY25A	FY26E	FY27E	FY28E
BV/Share (INR)	4,078.7	4,567.3	5,030.6	5,594.8	6,350.1
ROIC	50.0%	51.4%	44.4%	47.1%	55.9%
ROE	14.8%	13.7%	11.6%	12.8%	15.2%
Net Debt/Equity (x)	-0.8	-0.8	-0.8	-0.8	-0.8
P/E (x)	62.7	60.0	63.6	52.3	39.0
P/B (x)	8.7	7.8	7.1	6.4	5.6
EV/EBITDA (x)	49.5	49.1	51.8	41.5	29.6
EV/Sales (x)	7.2	6.8	6.1	5.4	4.7
Debtor days	84	95	94	94	94
Inventory days	14	21	21	21	20
Creditor days	80	87	86	84	83

Source: Company, JM Financial

APPENDIX I

JM Financial Institutional Securities Limited

Corporate Identity Number: U67100MH2017PLC296081

Member of BSE Ltd. and National Stock Exchange of India Ltd.

SEBI Registration Nos.: Stock Broker - INZ000163434, Research Analyst - INH000000610

Registered Office: 7th Floor, Cnergy, Appasaheb Marathe Marg, Prabhadevi, Mumbai 400 025, India.

Board: +91 22 6630 3030 | Fax: +91 22 6630 3488 | Email: jmfinancial.research@jmfl.com | www.jmfl.com

Compliance Officer: Ms. Ashley Johnson | Tel: +91 22 6224 1862 | Email: ashley.johnson@jmfl.com Grievance Officer: Ms. Ashley Johnson | Tel: +91 22 6224 1862 | Email: instcompliance@jmfl.com

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

New Rating System	New Rating System: Definition of ratings			
Rating	ating Meaning			
BUY	Expected return >= 15% over the next twelve months.			
ADD	Expected return >= 5% and < 15% over the next twelve months.			
REDUCE	Expected return >= -10% and < 5% over the next twelve months.			
SELL	Expected return < -10% over the next twelve months.			

Note: For REITs (Real Estate Investment Trust) and InvIT (Infrastructure Investment Trust) total expected returns include dividends or DPU (distribution per unit)

Previous Rati	ng System: Definition of ratings
Rating	Meaning
BUY	Total expected returns of more than 10% for stocks with market capitalisation in excess of INR 200 billion and REITs* and more than 15%
БОТ	for all other stocks, over the next twelve months. Total expected return includes dividend yields.
	Price expected to move in the range of 10% downside to 10% upside from the current market price for stocks with market
HOLD	capitalisation in excess of INR 200 billion and REITs* and in the range of 10% downside to 15% upside from the current market price
	for all other stocks, over the next twelve months.
SELL	Price expected to move downwards by more than 10% from the current market price over the next twelve months.

^{*} REITs refers to Real Estate Investment Trusts.

Research Analyst(s) Certification

The Research Analyst(s), with respect to each issuer and its securities covered by them in this research report, certify that:

All of the views expressed in this research report accurately reflect his or her or their personal views about all of the issuers and their securities; and

No part of his or her or their compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed in this research report.

Important Disclosures

This research report has been prepared by JM Financial Institutional Securities Limited (JM Financial Institutional Securities) to provide information about the company(ies) and sector(s), if any, covered in the report and may be distributed by it and/or its associates solely for the purpose of information of the select recipient of this report. This report and/or any part thereof, may not be duplicated in any form and/or reproduced or redistributed without the prior written consent of JM Financial Institutional Securities. This report has been prepared independent of the companies covered herein.

JM Financial Institutional Securities is registered with the Securities and Exchange Board of India (SEBI) as a Research Analyst and a Stock Broker having trading memberships of the BSE Ltd. (BSE) and National Stock Exchange of India Ltd. (NSE). No material disciplinary action has been taken by SEBI against JM Financial Institutional Securities in the past two financial years which may impact the investment decision making of the investor. Registration granted by SEBI and certification from the National Institute of Securities Market (NISM) in no way guarantee performance of JM Financial Institutional Securities or provide any assurance of returns to investors.

JM Financial Institutional Securities renders stock broking services primarily to institutional investors and provides the research services to its institutional clients/investors. JM Financial Institutional Securities and its associates are part of a multi-service, integrated investment banking, investment management, brokerage and financing group. JM Financial Institutional Securities and/or its associates might have provided or may provide services in respect of managing offerings of securities, corporate finance, investment banking, mergers & acquisitions, broking, financing or any other advisory services to the company(ies) covered herein. JM Financial Institutional Securities and/or its associates might have received during the past twelve months or may receive compensation from the company(ies) mentioned in this report for rendering any of the above services.

JM Financial Institutional Securities and/or its associates, their directors and employees may; (a) from time to time, have a long or short position in, and buy or sell the securities of the company(ies) mentioned herein or (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) covered under this report or (c) act as an advisor or lender/borrower to, or may have any financial interest in, such company(ies) or (d) considering the nature of business/activities that JM Financial Institutional Securities is engaged in, it may have potential conflict of interest at the time of publication of this report on the subject company(ies).

Neither JM Financial Institutional Securities nor its associates or the Research Analyst(s) named in this report or his/her relatives individually own one per cent or more securities of the company(ies) covered under this report, at the relevant date as specified in the SEBI (Research Analysts) Regulations, 2014.

The Research Analyst(s) principally responsible for the preparation of this research report and their immediate relatives are prohibited from buying or selling debt or equity securities, including but not limited to any option, right, warrant, future, long or short position issued by company(ies) covered under this report. The Research Analyst(s) principally responsible for the preparation of this research report or their immediate relatives (as defined under SEBI (Research Analysts) Regulations, 2014); (a) do not have any financial interest in the company(ies) covered under this report or (b) did not receive any compensation from the company(ies) covered under this report, or from any third party, in connection with this report or (c) do not have any other material conflict of interest at the time of publication of this report. Research Analyst(s) are not serving as an officer, director or employee of the company(ies) covered under this report.

While reasonable care has been taken in the preparation of this report, it does not purport to be a complete description of the securities, markets or developments referred to herein, and JM Financial Institutional Securities does not warrant its accuracy or completeness. JM Financial Institutional Securities may not be in any way responsible for any loss or damage that may arise to any person from any inadvertent error in the information contained in this report. This report is provided for information only and is not an investment advice and must not alone be taken as the basis for an investment decision.

This research report is based on the fundamental research/analysis conducted by the Research Analyst(s) named herein. Accordingly, this report has been prepared by studying/focusing on the fundamentals of the company(ies) covered in this report and other macro-economic factors. JM Financial Institutional Securities may have also issued or may issue, research reports and/or recommendations based on the technical/quantitative analysis of the company(ies) covered in this report by studying and using charts of the stock's price movement, trading volume and/or other volatility parameters. As a result, the views/recommendations expressed in such technical research reports could be inconsistent or even contrary to the views contained in this report.

The investment discussed or views expressed or recommendations/opinions given herein may not be suitable for all investors. The user assumes the entire risk of any use made of this information. The information contained herein may be changed without notice and JM Financial Institutional Securities reserves the right to make modifications and alterations to this statement as they may deem fit from time to time.

This report is neither an offer nor solicitation of an offer to buy and/or sell any securities mentioned herein and/or not an official confirmation of any transaction.

This report is not directed or intended for distribution to, or use by any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject JM Financial Institutional Securities and/or its affiliated company(ies) to any registration or licensing requirement within such jurisdiction. The securities described herein may or may not be eligible for sale in all jurisdictions or to a certain category of investors. Persons in whose possession this report may come, are required to inform themselves of and to observe such restrictions. Please click here to access our detailed Terms and Conditions, including the Most Important Terms and Conditions.

Additional disclosure only for U.S. persons: JM Financial Institutional Securities has entered into an agreement with JM Financial Securities, Inc. ("JM Financial Securities"), a U.S. registered broker-dealer and member of the Financial Industry Regulatory Authority ("FINRA") in order to conduct certain business in the United States in reliance on the exemption from U.S. broker-dealer registration provided by Rule 15a-6, promulgated under the U.S. Securities Exchange Act of 1934 (the "Exchange Act"), as amended, and as interpreted by the staff of the U.S. Securities and Exchange Commission ("SEC") (together "Rule 15a-6").

This research report is distributed in the United States by JM Financial Securities in compliance with Rule 15a-6, and as a "third party research report" for purposes of FINRA Rule 2241. In compliance with Rule 15a-6(a)(3) this research report is distributed only to "major U.S. institutional investors" as defined in Rule 15a-6 and is not intended for use by any person or entity that is not a major U.S. institutional investor. If you have received a copy of this research report and are not a major U.S. institutional investor, you are instructed not to read, rely on, or reproduce the contents hereof, and to destroy this research or return it to JM Financial Institutional Securities or to JM Financial Securities.

This research report is a product of JM Financial Institutional Securities, which is the employer of the research analyst(s) solely responsible for its content. The research analyst(s) preparing this research report is/are resident outside the United States and are not associated persons or employees of any U.S. registered broker-dealer. Therefore, the analyst(s) are not subject to supervision by a U.S. broker-dealer, or otherwise required to satisfy the regulatory licensing requirements of FINRA and may not be subject to the Rule 2241 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account.

Any U.S. person who is recipient of this report that wishes further information regarding, or to effect any transaction in, any of the securities discussed in this report, must contact, and deal directly through a U.S. registered representative affiliated with a broker-dealer registered with the SEC and a member of FINRA. In the U.S., JM Financial Institutional Securities has an affiliate, JM Financial Securities, Inc. located at 1325 Avenue of the Americas, 27th Floor, Office No. 2715, New York, New York 10019. Telephone +1 (332) 900 4958 which is registered with the SEC and is a member of FINRA and SIPC.

Additional disclosure only for U.K. persons: Neither JM Financial Institutional Securities nor any of its affiliates is authorised in the United Kingdom (U.K.) by the Financial Conduct Authority. As a result, this report is for distribution only to persons who (i) have professional experience in matters relating to investments falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended, the "Financial Promotion Order"), (ii) are persons falling within Article 49(2)(a) to (d) ("high net worth companies, unincorporated associations etc.") of the Financial Promotion Order, (iii) are outside the United Kingdom, or (iv) are persons to whom an invitation or inducement to engage in investment activity (within the meaning of section 21 of the Financial Services and Markets Act 2000) in connection with the matters to which this report relates may otherwise lawfully be communicated or caused to be communicated (all such persons together being referred to as "relevant persons"). This report is directed only at relevant persons and must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this report relates is available only to relevant persons and will be engaged in only with relevant persons.

Additional disclosure only for Canadian persons: This report is not, and under no circumstances is to be construed as, an advertisement or a public offering of the securities described herein in Canada or any province or territory thereof. Under no circumstances is this report to be construed as an offer to sell securities or as a solicitation of an offer to buy securities in any jurisdiction of Canada. Any offer or sale of the securities described herein in Canada will be made only under an exemption from the requirements to file a prospectus with the relevant Canadian securities regulators and only by a dealer properly registered under applicable securities laws or, alternatively, pursuant to an exemption from the registration requirement in the relevant province or territory of Canada in which such offer or sale is made. This report is not, and under no circumstances is it to be construed as, a prospectus or an offering memorandum. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed upon these materials, the information contained herein or the merits of the securities described herein and any representation to the contrary is an offence. If you are located in Canada, this report has been made available to you based on your representation that you are an "accredited investor" as such term is defined in National Instrument 45-106 Prospectus Exemptions and a "permitted client" as such term is defined herein to be construed as investment advice in any province or territory of Canada nor should it be construed as being tailored to the needs of the recipient. Canadian recipients are advised that JM Financial Securities, Inc., JM Financial Institutional Securities Limited, their affiliates and authorized agents are not responsible for, nor do they accept, any liability whatsoever for any direct or consequential loss arising from any use of this research report or the information contained herein.