

RESULT UPDATE

KEY DATA

Rating	HOLD
Sector relative	Neutral
Price (INR)	406
12 month price target (INR)	394
52 Week High/Low	585/274
Market cap (INR bn/USD bn)	153/1.8
Free float (%)	47.0
Avg. daily value traded (INR mn)	692.4

SHAREHOLDING PATTERN

	Jun-25	Mar-24	Dec-24
Promoter	51.41%	51.41%	51.41%
FII	5.53%	5.58%	5.24%
DII	9.89%	8.93%	6.70%
Pledge	0%	0%	0%

FINANCIALS

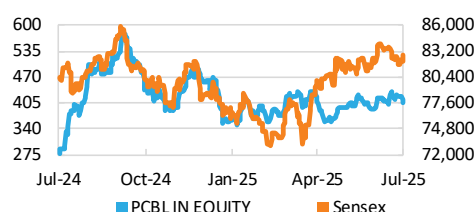
(INR mn)

Year to March	FY25A	FY26E	FY27E	FY28E
Revenue	84,043	85,377	91,746	1,00,676
EBITDA	13,368	14,685	16,331	17,971
Adjusted profit	4,347	5,506	6,536	7,659
Diluted EPS (INR)	11.5	14.6	17.3	20.3
EPS growth (%)	(11.5)	26.7	18.7	17.2
RoAE (%)	12.5	14.3	15.6	16.6
P/E (x)	32.1	25.3	21.3	18.2
EV/EBITDA (x)	14.2	13.1	11.8	10.7
Dividend yield (%)	1.5	1.8	2.0	2.0

CHANGE IN ESTIMATES

	Revised estimates		% Revision	
Year to March	FY26E	FY27E	FY26E	FY27E
Revenue	85,377	91,746	-0.3%	-0.4%
EBITDA	14,685	16,331	-4.7%	-1.5%
Adjusted profit	5,506	6,536	-12.5%	-12.9%
Diluted EPS (INR)	14.6	17.3	-12.5%	-12.9%

PRICE PERFORMANCE



Uncertainty still persists

PCBL posted in-line Q1FY26 results with revenue down 1.4% YoY to INR21.1bn as lower realisations in Carbon Black weighed on performance. EBITDA fell 10.9% YoY to INR3.19bn, with Carbon Black EBITDA/ton down 14.7% YoY to INR17,791. PAT decreased 20.2% YoY to INR941mn due to weaker margins and higher depreciation.

While the company's long-term transformation from a commodity player to a specialty chemicals business remains intact, concerns persist around a stretched balance sheet, continued dumping of carbon black in spot markets by Russia, and a slower-than-expected recovery in the Aquapharm segment. All in all, we maintain 'HOLD' on the stock with a revised TP of INR394.

Margin continues to be under pressure

PCBL reported in-line performance with revenue down 1.4% YoY to INR21.1bn, impacted by a 4.1% YoY decline in the Carbon Black business due to lower realisations despite stable volumes. The Chemicals segment (Aquapharm) grew 7% YoY, amid higher US imports driven by tariff uncertainty from other countries. The Power segment witnessed 22.2% YoY growth aided by strong volumes and better realisations. Gross margin fell 120bp YoY to 31.2% leading to a 10.9% YoY drop in EBITDA to INR3.19bn as profitability was impacted by lower EBITDA/ton in the Carbon Black segment (INR17,791/ton, down 14.7% YoY) and higher freight costs (~INR60mn) in the Aquapharm business, which limited EBITDA to INR500mn. A lower tax rate couldn't arrest PAT decline, down 20.2% YoY to INR941mn, which was impacted by lower margins, higher depreciation and reduced other income.

Gradual ramp-up and leverage key concerns

Aquapharm continued its steady recovery with volumes up 8.7% YoY, though EBITDA remained flat at INR500mn due to elevated freight costs. While management has maintained the FY26 EBITDA guidance of INR3bn supported by improving volumes in ensuing quarter, we believe the ramp-up will be gradual and likely slower than initially expected. Continued dumping by Russian imports in spot markets also remains an overhang for PCBL's carbon black business. We are, hence, revising down FY26E/27E EBITDA by 4.7%/1.5%. We maintain 'HOLD' with a revised TP of INR394 (earlier INR391), while rolling forward the target valuation to Q1FY28E EBITDA and ascribing a multiple of 12.

Financials

Year to March	Q1FY26	Q1FY25	% Change	Q4FY25	% Change
Net Revenue	21,141	21,436	(1.4)	20,875	1.3
EBITDA	3,191	3,583	(10.9)	2,977	7.2
Adjusted Profit	941	1,179	(20.2)	1,002	(6.1)
Diluted EPS (INR)	2.5	3.1	(20.2)	2.7	(6.1)

Financial Statements

Income Statement (INR mn)

Year to March	FY25A	FY26E	FY27E	FY28E
Total operating income	84,043	85,377	91,746	1,00,676
Gross profit	25,947	26,467	28,900	31,713
Employee costs	4,128	4,098	4,312	4,681
Other expenses	8,451	7,684	8,257	9,061
EBITDA	13,368	14,685	16,331	17,971
Depreciation	3,457	3,818	4,070	4,322
Less: Interest expense	4,609	4,209	4,280	4,241
Add: Other income	474	683	734	805
Profit before tax	5,776	7,341	8,714	10,212
Prov for tax	1,424	1,835	2,179	2,553
Less: Other adj	(5)	0	0	0
Reported profit	4,347	5,506	6,536	7,659
Less: Excp.item (net)	0	0	0	0
Adjusted profit	4,347	5,506	6,536	7,659
Diluted shares o/s	378	378	378	378
Adjusted diluted EPS	11.5	14.6	17.3	20.3
DPS (INR)	5.5	6.6	7.3	7.3
Tax rate (%)	24.7	25.0	25.0	25.0

Important Ratios (%)

Year to March	FY25A	FY26E	FY27E	FY28E
Specialty black vol	62,450.0	65,572.5	74,096.9	81,506.6
Carbon black vol	5,96,263.0	6,26,076.2	6,90,650.9	7,59,716.0
Realisation/tonne	1,12,088.1	1,07,000.0	1,02,000.0	1,00,000.0
EBITDA margin (%)	15.9	17.2	17.8	17.9
Net profit margin (%)	5.2	6.4	7.1	7.6
Revenue growth (% YoY)	30.9	1.6	7.5	9.7
EBITDA growth (% YoY)	28.9	9.9	11.2	10.0
Adj. profit growth (%)	(11.5)	26.7	18.7	17.2

Assumptions (%)

Year to March	FY25A	FY26E	FY27E	FY28E
GDP (YoY %)	6.3	6.3	6.3	6.3
Repo rate (%)	5.0	5.0	5.0	5.0
USD/INR (average)	77.0	77.0	77.0	77.0
Volumes (MT)	12,573.6	16,362.1	18,028.5	19,869.9
Crude Prices (USD)	10.5	10.5	10.7	10.7
Specialty Product Percentage	0	0	0	0
EBITDA/tonne	0	0	0	0
Realisation Premium (Specialty V/s Carbon Black)	0	0	0	0

Valuation Metrics

Year to March	FY25A	FY26E	FY27E	FY28E
Diluted P/E (x)	32.1	25.3	21.3	18.2
Price/BV (x)	3.8	3.5	3.2	2.9
EV/EBITDA (x)	14.2	13.1	11.8	10.7
Dividend yield (%)	1.5	1.8	2.0	2.0

Source: Company and Nuvama estimates

Balance Sheet (INR mn)

Year to March	FY25A	FY26E	FY27E	FY28E
Share capital	378	378	378	378
Reserves	36,597	39,624	43,405	48,310
Shareholders funds	36,974	40,001	43,782	48,687
Minority interest	117	117	117	117
Borrowings	53,800	53,800	53,300	52,800
Trade payables	15,947	16,374	17,595	19,308
Other liabs & prov	8,805	9,041	9,288	9,547
Total liabilities	1,17,219	1,20,908	1,25,657	1,32,034
Net block	35,476	37,658	39,588	41,265
Intangible assets	28,133	28,133	28,133	28,133
Capital WIP	7,296	7,296	7,296	7,296
Total fixed assets	70,906	73,087	75,017	76,695
Non current inv	5,206	5,206	5,206	5,206
Cash/cash equivalent	3,892	1,222	512	664
Sundry debtors	17,937	19,882	21,366	23,445
Loans & advances	462	462	462	462
Other assets	15,411	17,642	19,689	22,157
Total assets	1,17,219	1,20,908	1,25,657	1,32,034

Free Cash Flow (INR mn)

Year to March	FY25A	FY26E	FY27E	FY28E
Reported profit	4,347	5,506	6,536	7,659
Add: Depreciation	3,457	3,818	4,070	4,322
Interest (net of tax)	4,609	4,209	4,280	4,241
Others	(6,049)	122	0	0
Less: Changes in WC	(3,176)	(3,636)	(2,062)	(2,575)
Operating cash flow	3,188	10,018	12,825	13,648
Less: Capex	(3,469)	(6,000)	(6,000)	(6,000)
Free cash flow	(281)	4,018	6,825	7,648

Key Ratios

Year to March	FY25A	FY26E	FY27E	FY28E
RoE (%)	12.5	14.3	15.6	16.6
RoCE (%)	12.1	12.5	13.6	14.5
Inventory days	71	83	85	84
Receivable days	76	81	82	81
Payable days	107	100	99	98
Working cap (% sales)	14.2	18.1	19.1	20.0
Gross debt/equity (x)	1.5	1.3	1.2	1.1
Net debt/equity (x)	1.3	1.3	1.2	1.1
Interest coverage (x)	2.2	2.6	2.9	3.2

Valuation Drivers

Year to March	FY25A	FY26E	FY27E	FY28E
EPS growth (%)	(11.5)	26.7	18.7	17.2
RoE (%)	12.5	14.3	15.6	16.6
EBITDA growth (%)	28.9	9.9	11.2	10.0
Payout ratio (%)	47.8	45.0	42.1	36.0

Exhibit 1: Quarterly financial snapshot (Consolidated)

Year to March	Q1FY26	Q1FY25	% change	Q4FY25	% change	FY26E	FY27E	FY28E
Revenues	21,141	21,436	(1.4)	20,875	1.27	85,377	91,746	1,00,676
Raw material	14,545	14,491	0.4	14,766	-1.49	58,910	62,846	68,963
Staff costs	1,095	1,001	9.4	1,093	0.12	4,098	4,312	4,681
Other expenditure	2,310	2,361	(2.2)	2,039	13.30	7,684	8,257	9,061
Total expenditure	17,950	17,853	0.5	17,898	0.29	70,692	75,415	82,705
EBITDA	3,191	3,583	(10.9)	2,977	7.19	14,685	16,331	17,971
Depreciation	924	845	9.3	881	4.78	3,818	4,070	4,322
EBIT	2,267	2,738	(17.2)	2,095	8.20	10,867	12,261	13,648
Interest	1,124	1,211	(7.2)	1,032	8.91	4,209	4,280	4,241
Other income	58	109	(46.7)	198	-70.66	683	734	805
Profit Before Tax	1,202	1,636	(26.5)	1,261	-4.74	7,341	8,714	10,212
Less: Provision for Tax	261	457	(42.9)	259	0.42	1,835	2,179	2,553
Reported Profit	941	1,179	(20.2)	1,002	-6.08	5,506	6,536	7,659
No. of Diluted shares outstanding (mn)	378	378		378		378	378	378
Adjusted Diluted EPS	2.5	3.1	(20.2)	2.7	-6.08	14.6	17.3	20.3
As % of revenues								
COGS	68.8	67.6	120.3	70.7	-193.3	69.0	68.5	68.5
Gross profit	31.2	32.4	-120.3	29.3	193.3	31.0	31.5	31.5
Employee costs	5.2	4.7	50.8	5.2	-6.0	4.8	4.7	4.7
Other expenses	10.9	11.0	-8.9	9.8	116.0	9.0	9.0	9.0
Total operating expenses	84.9	83.3	162.2	85.7	-83.3	82.8	82.2	82.2
EBITDA	15.1	16.7	-162.2	14.3	83.3	17.2	17.8	17.9
Net profit	4.5	5.5	-105.0	4.8	-34.8	6.4	7.1	7.6

Source: Company, Nuvama Research

Q1FY26 conference call takeaways

Opening remarks

- **Global scenario:** Global challenges including geopolitical tensions (Iran-Israel, the Red Sea disruption), macroeconomic slowdown and evolving tariff structures (particularly from the US) continued to weigh on sentiment.
- **Dumping situation:** While dumping into India has moderated, it remains elevated. Russian imports (~2,000 MT/month) continue, largely via traders—not tyre OEMs.
- **Tyre industry shift:** Structural shift in global tyre manufacturing towards India due to cost efficiency and supply chain benefits. India is poised to gain share due to higher tariffs on other countries and closures in EU/US (e.g. Orion's planned shutdown).
- **Export opportunity:** PCBL is focusing more on exports (41% mix) with a stronger push into Europe, US and Southeast Asia.

Carbon black

Acetylene Black

- Technology transfer completed; engineering work underway.
- Applications include high-voltage cables, semiconductors, paints/coatings.
- India currently imports 100% of its acetylene black; PCBL will be first domestic manufacturer.
- Initial capacity: 4,000–5,000 MT with scope for modular reactor-based expansion.

Orion capacity closure

- Orion (global carbon black major) plans to shut down some capacity across US and Europe by end-CY25E.
- Closures largely in rubber blacks, with a shift towards specialty grades.
- Management expects to benefit as global capacity tightens, particularly in the US/EU, where cost competitiveness is deteriorating.

Outlook: Pricing and margin

- Specialty blacks' realisations are 25–30% higher than rubber black, while performance blacks command ~17% premium.
- Carbon black margins faced pressure from spot market oversupply (~30% volumes); contract business (~70%) remains stable.
- Long-term EBITDA/kg goal remains INR20–22/kg aided by operating leverage and specialty shift.
- China-India feedstock price gap narrowed to USD130/ton.
- **Pricing renegotiation:** Tariff uncertainties in the US are key headwinds; pricing discussions with global tyre majors to begin in August.

Capex update

Tamil Nadu (Brownfield)

- Phase 1 (30,000 MTPA): Trial runs started; commissioning in next few weeks.
- Phase 2 (60,000 MTPA + 12 MW green power): Commissioning by end-FY26E.

Specialty Black

- New 20,000MTPA line at Mundra to be ready in three–four quarters; will take total capacity to 132,000MTPA.
- 1,000MTPA superconductive grade plant at Palej to be commissioned by end-FY26E.

Greenfield capex

- Acquiring 116 acres in Naidupeta, Andhra Pradesh, for rubber and performance blacks.
- Capex to kick off post-environmental clearance in FY26.

Aquapharm**Margin pressure**

- Q1 impacted by higher freight costs (~INR60mn) due to the Red Sea disruptions.
- Product mix shift and pricing pressure also weighed on profitability.
- Despite higher volumes, EBITDA did not scale up due to operating leverage still not playing out.

Capacity update and outlook

- 11,500MTPA polymer line at Mahad commissioned in Q1; balance to come up in two–three months.
- Additional capacity for PBTC, green chelates, acetyl chloride, amines, imidazoline to be commissioned in Q2FY26.
- Targeting INR3bn EBITDA in FY26; management remains confident of achieving it via improved capacity utilisation.
- **Outlook:** Management mentioned that Integration across Detergent, Oil & Gas, and Water Treatment segments to unlock cross-selling and utilisation.
- Targeting 17–18% RoIC over the next three–four years.

Other key highlights**Nano Materials (Nanovace)**

- US patent received for a proprietary process to develop nanomaterials for energy storage.
- Pilot plant to be commissioned by the end of CY25E, followed by sampling.
- Real contribution to earnings expected from FY28E.
- Q1FY26 capex stood at INR1.12bn, of which Aquapharm capex was INR150–160mn.
- Management has guided for an FY26 capex of INR6bn.
- Debt: Management indicated there is some debt reduction in debt in Q1FY26.

Company Description

PCBL, a part of RP-Sanjiv Goenka Group is the largest carbon-black producer in India by capacity. PCBL was set up in association with Phillips Petroleum a US-based company in 1960. PCBL commenced its commercial production in Dec-62 with 14ktpa plant in Durgapur, using oil furnace technology. PCBL had a technical collaboration with Columbian Chemical for about a decade. In FY97, Carbon and Chemicals India Ltd was amalgamated with the company. By FY04, PCBL had three plants at Durgapur, Palej and Kochi with a total capacity of 270ktpa.

Investment Theme

In the Carbon-Black market, PCBL enjoys an indomitable 50% market share in India, 11%-globally and 17%-world ex-China. Furthermore, we see the global market share in the profitable Speciality-Carbon-Black market increasing to 5.9% by FY25E (FY22: 3.6%). Even in Rubber and Performance Chemicals grade, we expect the market share to rise by 30bp in both the categories. On the ESG front, the company outscores its global peers in areas such as GHG intensity (Scope 1) – 1.43tCO₂e/t vs. 2.28tCO₂e/t and water intensity- 6.2m³/t vs. 9.2m³/t. The company's long-term targets is demonstrative of its focussed pursuit towards a spirited advancement. In a business that enjoys little margin volatility, owing to the cost pass-through mechanism, PCBL is strengthening its market leadership. Key growth drivers includes: i) volume ramp up in core rubber business as 147ktpa Tiruvallur plant ramps up; ii) margin aggrandizement via higher speciality product sales volume (up 10ktpa p.a. through to FY25E) – yielding ~2.6x margin compared to rubber products; and iii) harnessing state-of-the-art technology at the greenfield Chennai plant, resulting in better plant processes and yields. All in all, we see EBITDA margin surpassing 21% (FY22: 12%) and RoE improving to 22% (FY22: 18.8%) through FY25E.

Key Risks

PCBL operates in a very competitive environment with significant dependence on automotive and tyre industries. Automotive industry is particularly susceptible to supply chain disruptions such as semiconductor shortage and calamity such as covid19, potentially impacting revenue and cash flows adversely. While operations are largely cost pass-through, the inability to do so, in the absence of a firm binding contract might have an impact on profitability. Besides, there is a need for constant innovation due to variations and changes required. The threat of substitution from silica precipitate, advanced materials and fused alloys remains. PCBL is subject to significant environmental and regulatory risks. Globally, carbon black is being investigated as potential carcinogenic and nano-scale material. Any development in this regard, could have a significant impact on company's sales volumes and cashflows

Additional Data

Management

Chairman	Sanjiv Goenka
Managing Director	Kaushik Roy
CFO	Raj Kumar Gupta
Auditor	S. R. Batliboi & Co. LLP

Holdings – Top 10*

	% Holding		% Holding
IDFC Mutual fun	2.81	Blackrock Inc	0.74
HDFC AMC	1.71	Aditya birla su	0.65
Vanguard Group	1.17	FIL Ltd	0.31
Tata Asset mana	1.11	Reliance Nippon	0.30
Dimensional Fun	0.86	WisdomTree Inc	0.28

*Latest public data

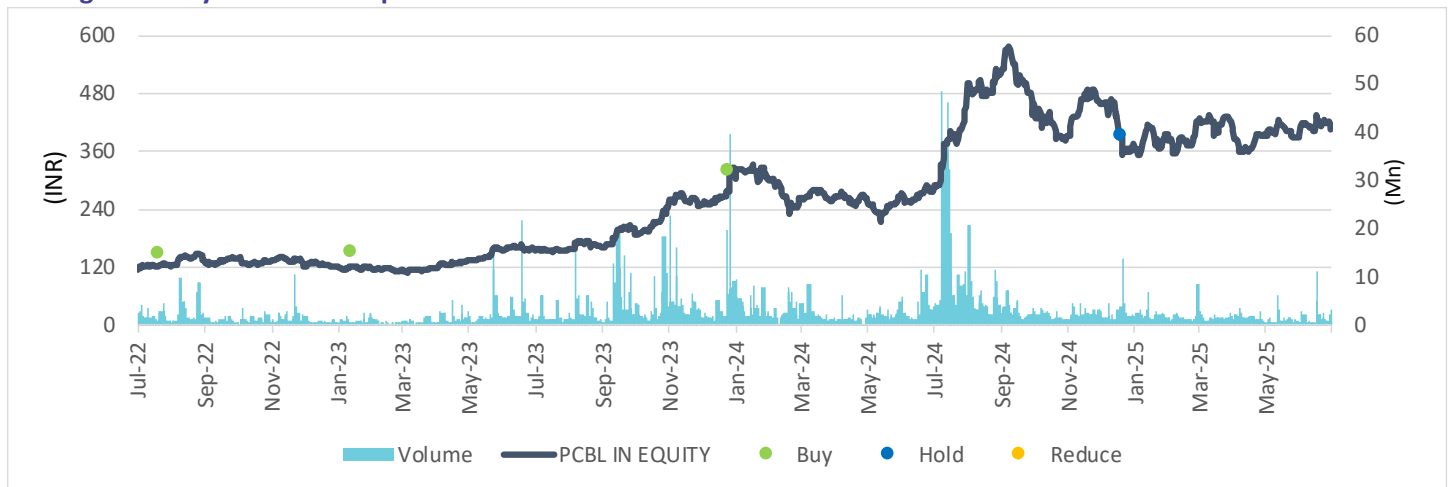
Recent Company Research

Date	Title	Price	Reco
29-Apr-25	Feeble performance; <i>Result Update</i>	369	Hold
10-Jan-25	Slower-than-expected growth; <i>Result Update</i>	391	Hold
30-Oct-24	PCBL (PCBL IN, INR 441, BUY) - EBITDA/mt; <i>Result Update</i>	433	Buy

Recent Sector Research

Date	Name of Co./Sector	Title
19-Feb-24	Chemical	Early signs of revival; <i>Sector Update</i>
25-Apr-19	Chemical	Chemspec: Party for domestic manufacture; <i>Sector Update</i>

Rating and Daily Volume Interpretation



Source: Bloomberg, Nuvama research

Rating Rationale & Distribution: Nuvama Research

Rating	Expected absolute returns over 12 months	Rating Distribution
Buy	15%	202
Hold	<15% and >-5%	66
Reduce	<-5%	36

DISCLAIMER

Nuvama Wealth Management Limited (defined as “NWML” or “Research Entity”) a company duly incorporated under the Companies Act, 1956 (CIN No L67110MH1993PLC344634) having its Registered office situated at 801- 804, Wing A, Building No. 3, Inspire BKC, G Block, Bandra Kurla Complex, Bandra East, Mumbai – 400 051 is regulated by the Securities and Exchange Board of India (“SEBI”) and is licensed to carry on the business of broking, Investment Adviser, Research Analyst and other related activities. Name of Compliance/Grievance officer: Mr. Atul Bapna, E-mail address: complianceofficer.nwm@nuvama.com Contact details +91 (22) 6623 3478 Investor Grievance e-mail address- grievance.nwm@nuvama.com

This Report has been prepared by NWML in the capacity of a Research Analyst having SEBI Registration No.INH000011316 and Enlistment no. 5723 with BSE and distributed as per SEBI (Research Analysts) Regulations 2014. This report does not constitute an offer or solicitation for the purchase or sale of any financial instrument or as an official confirmation of any transaction. Securities as defined in clause (h) of section 2 of the Securities Contracts (Regulation) Act, 1956 includes Financial Instruments and Currency Derivatives. The information contained herein is from publicly available data or other sources believed to be reliable. This report is provided for assistance only and is not intended to be and must not alone be taken as the basis for an investment decision. The user assumes the entire risk of any use made of this information. Each recipient of this report should make such investigation as it deems necessary to arrive at an independent evaluation of an investment in Securities referred to in this document (including the merits and risks involved), and should consult his own advisors to determine the merits and risks of such investment. The investment discussed or views expressed may not be suitable for all investors.

This information is strictly confidential and is being furnished to you solely for your information. This information should not be reproduced or redistributed or passed on directly or indirectly in any form to any other person or published, copied, in whole or in part, for any purpose. This report is not directed or intended for distribution to, or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject NWML and associates, subsidiaries / group companies to any registration or licensing requirements within such jurisdiction. The distribution of this report in certain jurisdictions may be restricted by law, and persons in whose possession this report comes, should observe, any such restrictions. The information given in this report is as of the date of this report and there can be no assurance that future results or events will be consistent with this information. This information is subject to change without any prior notice. NWML reserves the right to make modifications and alterations to this statement as may be required from time to time. NWML or any of its associates / group companies shall 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. NWML is committed to providing independent and transparent recommendation to its clients. Neither NWML nor any of its associates, group companies, directors, employees, agents or representatives shall be liable for any damages whether direct, indirect, special or consequential including loss of revenue or lost profits that may arise from or in connection with the use of the information. Our proprietary trading and investment businesses may make investment decisions that are inconsistent with the recommendations expressed herein. Past performance is not necessarily a guide to future performance. The disclosures of interest statements incorporated in this report are provided solely to enhance the transparency and should not be treated as endorsement of the views expressed in the report. The information provided in these reports remains, unless otherwise stated, the copyright of NWML. All layout, design, original artwork, concepts and other Intellectual Properties, remains the property and copyright of NWML and may not be used in any form or for any purpose whatsoever by any party without the express written permission of the copyright holders.

NWML shall not be liable for any delay or any other interruption which may occur in presenting the data due to any reason including network (Internet) reasons or snags in the system, break down of the system or any other equipment, server breakdown, maintenance shutdown, breakdown of communication services or inability of the NWML to present the data. In no event shall NWML be liable for any damages, including without limitation direct or indirect, special, incidental, or consequential damages, losses or expenses arising in connection with the data presented by the NWML through this report.

We offer our research services to clients as well as our prospects. Though this report is disseminated to all the customers simultaneously, not all customers may receive this report at the same time. We will not treat recipients as customers by virtue of their receiving this report.

NWML and its associates, officer, directors, and employees, research analyst (including relatives) worldwide may: (a) from time to time, have long or short positions in, and buy or sell the Securities, 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 subject company/company(ies) discussed herein or act as advisor or lender/borrower to such company(ies) or have other potential/material conflict of interest with respect to any recommendation and related information and opinions at the time of publication of research report or at the time of public appearance. (c) NWML may have proprietary long/short position in the above mentioned scrip(s) and therefore should be considered as interested. (d) The views provided herein are general in nature and do not consider risk appetite or investment objective of any particular investor; readers are requested to take independent professional advice before investing. This should not be construed as invitation or solicitation to do business with NWML (e) Registration granted by SEBI and certification from NISM in no way guarantee performance of NWML or provide any assurance of returns to investors and clients.

NWML or its associates may have received compensation from the subject company in the past 12 months. NWML or its associates may have managed or co-managed public offering of securities for the subject company in the past 12 months. NWML or its associates may have received compensation for investment banking or merchant banking or brokerage services from the subject company in the past 12 months. NWML or its associates may have received any compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company in the past 12 months. NWML or its associates have not received any compensation or other benefits from the Subject Company or third party in connection with the research report. Research analyst or his/her relative or NWML's associates may have financial interest in the subject company. NWML and/or its Group Companies, their Directors, affiliates and/or employees may have interests/ positions, financial or otherwise in the Securities/Currencies and other investment products mentioned in this report. NWML, its associates, research analyst and his/her relative may have other potential/material conflict of interest with respect to any recommendation and related information and opinions at the time of publication of research report or at the time of public appearance.

Participants in foreign exchange transactions may incur risks arising from several factors, including the following: (i) exchange rates can be volatile and are subject to large fluctuations; (ii) the value of currencies may be affected by numerous market factors, including world and national economic, political and regulatory events, events in equity and debt markets and changes in interest rates; and (iii) currencies may be subject to devaluation or government imposed exchange controls which could affect the value of the currency. Investors in securities such as ADRs and Currency Derivatives, whose values are affected by the currency of an underlying security, effectively assume currency risk.

Research analyst has served as an officer, director or employee of subject Company: No

NWML has financial interest in the subject companies: No

NWML's Associates may have actual / beneficial ownership of 1% or more securities of the subject company at the end of the month immediately preceding the date of publication of research report.

Research analyst or his/her relative has actual/beneficial ownership of 1% or more securities of the subject company at the end of the month immediately preceding the date of publication of research report: No

NWML has actual/beneficial ownership of 1% or more securities of the subject company at the end of the month immediately preceding the date of publication of research report: No

Subject company may have been client during twelve months preceding the date of distribution of the research report.

There were no instances of non-compliance by NWML on any matter related to the capital markets, resulting in significant and material disciplinary action during the last three years. A graph of daily closing prices of the securities is also available at www.nseindia.com

Analyst Certification:

The analyst for this report certifies that all of the views expressed in this report accurately reflect his or her personal views about the subject company or companies and its or their securities, and no part of his or her compensation was, is or will be, directly or indirectly related to specific recommendations or views expressed in this report.

Additional Disclaimers

Disclaimer for U.S. Persons

This research report is a product of NWML, which is the employer of the research analyst(s) who has prepared the research report. The research analyst(s) preparing the research report is/are resident outside the United States (U.S.) and are not associated persons of any U.S. regulated broker-dealer and therefore the analyst(s) is/are not subject to supervision by a U.S. broker-dealer, and is/are not required to satisfy the regulatory licensing requirements of FINRA or required to otherwise comply with U.S. rules or regulations regarding, among other things, communications with a subject company, public appearances and trading securities held by a research analyst account.

This report is intended for distribution by NWML only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the U.S. Securities and Exchange Act, 1934 (the Exchange Act) and interpretations thereof by U.S. Securities and Exchange Commission (SEC) in reliance on Rule 15a 6(a)(2). If the recipient of this report is not a Major Institutional Investor as specified above, then it should not act upon this report and return the same to the sender. Further, this report may not be copied, duplicated and/or transmitted onward to any U.S. person, which is not the Major Institutional Investor.

In reliance on the exemption from registration provided by Rule 15a-6 of the Exchange Act and interpretations thereof by the SEC in order to conduct certain business with Major Institutional Investors, NWML has entered into an agreement with a U.S. registered broker-dealer, Nuvama Financial Services Inc. (formerly Edelweiss Financial Services Inc.) ("NFSI"). Transactions in securities discussed in this research report should be effected through NFSI.

Disclaimer for U.K. Persons

The contents of this research report have not been approved by an authorised person within the meaning of the Financial Services and Markets Act 2000 ("FSMA").

In the United Kingdom, this research report is being distributed only to and is directed only at (a) persons who have professional experience in matters relating to investments falling within Article 19(5) of the FSMA (Financial Promotion) Order 2005 (the "Order"); (b) persons falling within Article 49(2)(a) to (d) of the Order (including high net worth companies and unincorporated associations); and (c) any other persons to whom it may otherwise lawfully be communicated (all such persons together being referred to as "relevant persons").

This research report must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this research report relates is available only to relevant persons and will be engaged in only with relevant persons. Any person who is not a relevant person should not act or rely on this research report or any of its contents. This research report must not be distributed, published, reproduced or disclosed (in whole or in part) by recipients to any other person.

Disclaimer for Canadian Persons

This research report is a product of NWML, which is the employer of the research analysts who have prepared the research report. The research analysts preparing the research report are resident outside the Canada and are not associated persons of any Canadian registered adviser and/or dealer and, therefore, the analysts are not subject to supervision by a Canadian registered adviser and/or dealer, and are not required to satisfy the regulatory licensing requirements of the Ontario Securities Commission, other Canadian provincial securities regulators, the Investment Industry Regulatory Organization of Canada and are not required to otherwise comply with Canadian rules or regulations regarding, among other things, the research analysts' business or relationship with a subject company or trading of securities by a research analyst.

This report is intended for distribution by NWML only to "Permitted Clients" (as defined in National Instrument 31-103 ("NI 31-103")) who are resident in the Province of Ontario, Canada (an "Ontario Permitted Client"). If the recipient of this report is not an Ontario Permitted Client, as specified above, then the recipient should not act upon this report and should return the report to the sender. Further, this report may not be copied, duplicated and/or transmitted onward to any Canadian person.

NWML is relying on an exemption from the adviser and/or dealer registration requirements under NI 31-103 available to certain international advisers and/or dealers. Please be advised that (i) NWML is not registered in the Province of Ontario to trade in securities nor is it registered in the Province of Ontario to provide advice with respect to securities; (ii) NWML's head office or principal place of business is located in India; (iii) all or substantially all of NWML's assets may be situated outside of Canada; (iv) there may be difficulty enforcing legal rights against NWML because of the above; and (v) the name and address of the NWML's agent for service of process in the Province of Ontario is: Bamac Services Inc., 181 Bay Street, Suite 2100, Toronto, Ontario M5J 2T3 Canada.

Disclaimer for Singapore Persons

In Singapore, this report is being distributed by Nuvama Investment Advisors Private Limited (NIAPL) (Previously Edelweiss Investment Advisors Private Limited ("EIAPL")) (Co. Reg. No. 201016306H) which is a holder of a capital markets services license and an exempt financial adviser in Singapore and (ii) solely to persons who qualify as "institutional investors" or "accredited investors" as defined in section 4A(1) of the Securities and Futures Act, Chapter 289 of Singapore ("the SFA"). Pursuant to regulations 33, 34, 35 and 36 of the Financial Advisers Regulations ("FAR"), sections 25, 27 and 36 of the Financial Advisers Act, Chapter 110 of Singapore shall not apply to NIAPL when providing any financial advisory services to an accredited investor (as defined in regulation 36 of the FAR. Persons in Singapore should contact NIAPL in respect of any matter arising from, or in connection with this publication/communication. This report is not suitable for private investors.

Disclaimer for Hong Kong persons

This report is distributed in Hong Kong by Nuvama Investment Advisors (Hong Kong) Private Limited (NIAHK) (Previously Edelweiss Securities (Hong Kong) Private Limited (ESHK)), a licensed corporation (BOM -874) licensed and regulated by the Hong Kong Securities and Futures Commission (SFC) pursuant to Section 116(1) of the Securities and Futures Ordinance "SFO". This report is intended for distribution only to "Professional Investors" as defined in Part I of Schedule 1 to SFO. Any investment or investment activity to which this document relates is only available to professional investor and will be engaged only with professional investors." Nothing here is an offer or solicitation of these securities, products and services in any jurisdiction where their offer or sale is not qualified or exempt from registration. The report also does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of any individual recipients. The Indian Analyst(s) who compile this report is/are not located in Hong Kong and is/are not licensed to carry on regulated activities in Hong Kong and does not / do not hold themselves out as being able to do so.

INVESTMENT IN SECURITIES MARKET ARE SUBJECT TO MARKET RISKS. READ ALL THE RELATED DOCUMENTS CAREFULLY BEFORE INVESTING.

Abneesh Roy

Head of Research Committee

Abneesh.Roy@nuvama.com