

Petronet LNG

Buy

Estimate change	1
TP change	←
Rating change	—

Bloomberg	PLNG IN
Equity Shares (m)	1500
M.Cap.(INRb)/(USDb)	334.2 / 4.1
52-Week Range (INR)	225 / 184
1, 6, 12 Rel. Per (%)	7/-10/2
12M Avg Val (INR M)	483

Financials & Valuations (INR b)

FY22	FY23E	FY24E
431.7	577.7	552.1
52.5	48.3	43.0
33.5	31.4	28.0
22.3	20.9	18.7
13.7	-6.4	-10.7
89.5	99.7	108.7
-0.3	-0.3	-0.4
26.7	22.1	17.9
28.5	23.8	19.1
51.5	51.5	51.5
10.0	10.6	11.9
2.5	2.2	2.0
5.5	5.9	6.3
5.2	4.8	4.3
10.2	7.5	9.1
	52.5 33.5 22.3 13.7 89.5 -0.3 26.7 28.5 51.5 10.0 2.5 5.5	52.5 48.3 33.5 31.4 22.3 20.9 13.7 -6.4 89.5 99.7 -0.3 -0.3 26.7 22.1 28.5 23.8 51.5 51.5 10.0 10.6 2.5 2.2 5.5 5.9 5.2 4.8

Shareholding pattern (%)

As On	Sep-22	Jun-22	Sep-21
Promoter	50.0	50.0	50.0
DII	4.1	2.9	4.7
FII	34.8	34.8	32.1
Others	11.1	12.2	13.2

FII Includes depository receipts

Volumes dip but outlook remains intact

CMP: INR223

 Petronet LNG (PLNG) reported a beat on our EBITDA estimate despite lower volumes, due to 'Use or Pay charges' of INR8.5b during the quarter.

TP: INR271 (+22%)

- Dahej utilization declined to 70%, adversely impacted by lower off-take amidst high LNG prices, while utilization at Kochi stood at 21%.
- Spot LNG prices have dropped to ~USD15-20/mmBtu over the past couple of days, driving up utilization levels to ~81%. The management expects utilization levels to improve going forward, if spot LNG prices sustain at their current levels.
- Regasification charges at Dahej have been increased at the usual 5% annual rate to INR59.9/mmBtu from Jan'23 while charges at Kochi will be revised by 5% to INR85/mmBtu from April'23.
- Lack of clarity on capital allocation and possible returns from the new investments such as biogas projects and PDH-PP continue to remain key concerns that might keep the stock under pressure.
- In addition to INR8.5b 'Use or Pay charges' recognized in 3QFY23, the company is yet to recover 'Use or Pay charges' of INR4.2b recognized during FY22.
- Factoring in the above, we revise our EBITDA estimates by 23%/5%/5% for FY23/24/25, respectively, reflecting improvement in EBITDA margins, on account of hikes in regasification charges. We reiterate our Buy rating on the stock.

Beat on EBITDA; volumes disappoint

- Total volumes were 8% below our estimates at 167tbtu (down 20% YoY, down 13% QoQ)
- Dahej utilization stood at 70% (154tbtu)
- Kochi utilization stood at 21% (13tbtu)
- EBITDA stood at INR15.9b (est. INR6.7b, down 3% YoY, up 43% QoQ) due to 'use or pay charges', on account of lower capacity utilization.
- PAT stood at INR11.8b (est. INR5b, up 3% YoY, up 59% QoQ)
- For 9MFY23, EBITDA stood at INR39.1b (down 4% YoY), with PAT at INR26.3b (up 1% YoY).
- Dahej utilization stood at 80% (down 13% YoY), while Kochi utilization stood at 18% (down 4% YoY).

Valuation and view - reiterate Buy

- We remain positive on India's gas story, which is set to clock a CAGR of 6–8% as per our gas demand-supply model, led by a) the development of new CGDs and b) higher consumption at fertilizer and refining/petchem plants.
- Total capex guidance for FY23-24 is at INR42.5b. The company plans to set up a petrochemical project, wherein it would produce PDH-PP (capacity of 500ktpa) and another product as already guided. It is also setting up two new tanks at Dahej at a capex of INR12.5b by CY24.

Swarnendu Bhushan – Research Analyst (Swarnendu.Bhushan@MotilalOswal.com)

Rohit Thorat – Research Analyst (Rohit.Thorat@MotilalOswal.com)

Investors are advised to refer through important disclosures made at the last page of the Research Report.

A third jetty is coming up at Dahej at a capex of INR17b. FSRU on the East coast may cost the company INR15b along with brownfield expansion of 5mmtpa at the Dahej terminal at a cost of INR6b (to be done in phases by CY24 or early CY25).

■ The stock currently trades at 5.2x FY24E EV/EBITDA. We value PLNG on a DCF basis to arrive at a fair value of INR285 and reiterate our Buy rating on the stock.

Y/E March		FY22				FY	23	FY22	FY23E	FY23	Var.	
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4QE	-		3QE	(%)
Net Sales	85,979	1,08,131	1,25,972	1,11,604	1,42,638	1,59,857	1,57,759	1,17,421	4,31,686	5,77,675	1,46,888	7%
YoY Change (%)	76.1	73.4	71.9	47.3	65.9	47.8	25.2	5.2	65.9	33.8	16.6	
EBITDA	10,543	12,969	17,322	11,691	10,644	11,730	16,754	9,187	52,523	48,314	8,293	102%
Margins (%)	12.3	12.0	13.8	10.5	7.5	7.3	10.6	7.8	12.2	8.4	5.6	
Depreciation	1,916	1,936	1,936	1,896	1,912	1,922	1,923	2,289	7,685	8,047	2,052	
Interest	800	794	776	803	779	811	814	857	3,173	3,260	765	
Other Income	685	816	719	852	1,418	942	1,839	812	3,073	5,011	1,244	
PBT	8,512	11,055	15,328	9,844	9,371	9,939	15,856	6,852	44,738	42,017	6,720	136%
Tax	2,155	2,825	3,893	2,342	2,362	2,496	4,050	1,727	11,215	10,635	1,693	139%
Rate (%)	25.3	25.6	25.4	23.8	25.2	25.1	25.5	25.2	25.1	25.3	25.2	
Reported PAT	6,357	8,230	11,435	7,501	7,009	7,443	11,805	5,126	33,524	31,383	5,026	135%
Adj PAT	6,357	8,230	11,435	7,501	7,009	7,443	11,805	5,126	33,524	31,383	5,026	135%
YoY Change (%)	22.2	-11.2	30.2	20.3	10.3	-9.6	3.2	-31.7	13.7	-6.4	-56.0	
Margins (%)	7.4	7.6	9.1	6.7	4.9	4.7	7.5	4.4	7.8	5.4	3.4	
Key Assumptions												
Total Volumes (TBtu)	209.0	240.0	208.0	190.0	208.0	192.0	167.0	193.1	847.0	760.1	183.7	-9%
Dahej utilization (%)	88%	102%	89%	80%	89%	82%	70%	81%	90%	81%	78%	-11%
Kochi utilization (%)	24%	24%	19%	19%	19%	16%	21%	21%	21%	19%	18%	14%

0	peratio	nal Hi	σhli	ohts
U	peratio	ııaı mı	giiii	gnics

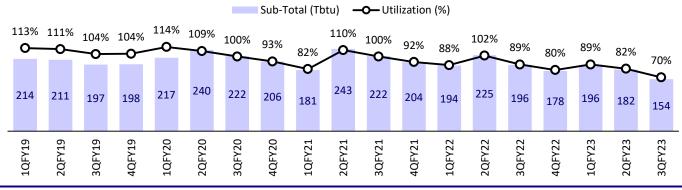
Particulars		FY2	21			FY22			FY23			3QFY23	
Particulars	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	YoY (%)	QoQ (%)
Dahej Sales Volume (TBtu)													
Long term	78.0	103.0	113.0	102.0	89.0	102.0	117.0	97.0	101.0	103.0	104.0	-11	1
Third-party regas	100.0	135.0	104.0	97.0	99.0	117.0	76.0	78.0	94.0	77.0	47.0	-38	-39
Pure short term	3.0	5.0	5.0	5.0	6.0	6.0	3.0	3.0	1.0	2.0	3.0	0	50
Sub-total (TBtu)	181.0	243.0	222.0	204.0	194.0	225.0	196.0	178.0	196.0	182.0	154.0	-21	-15
Kochi Sales Volume (TBtu)													
Long term	8.0	8.0	8.0	11.0	11.0	14.0	12.0	12.0	12.0	10.0	13.0	8	30
Third-party regas	0.0	0.0	3.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0		
Pure short term	1.0	3.0	2.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0		
Sub-total (TBtu)	9.0	11.0	13.0	14.0	15.0	15.0	12.0	12.0	12.0	10.0	13.0	8	30
Total (TBtu)	190.0	254.0	235.0	218.0	209.0	240.0	208.0	190.0	208.0	192.0	167.0	-20	-13

Exhibit 1: Dahej total volumes at 154TBtu, down 21% YoY and 15% QoQ

		Long	term	■ T	hird-party	y regas		Pure sho	rt term	(S Sub-Tot	al (Tbtu)		
217	240 0 -5	222	206	181	243 O 5	222	204	194	225 O 6	196	170	196	182	
O 5	126	111	O 6	O 3	135	O 5	O 5	O 6	117	O 3 76	178 O 3 78	O 1 94	O 2	154 O 3 47
100	109	102	95	78	103	113	102	89	102	117	97	101	103	104
1QFY20	2QFY20	3QFY20	4QFY20	1QFY21	2QFY21	3QFY21	4QFY21	1QFY22	2QFY22	3QFY22	4QFY22	1QFY23	2QFY23	3QFY23

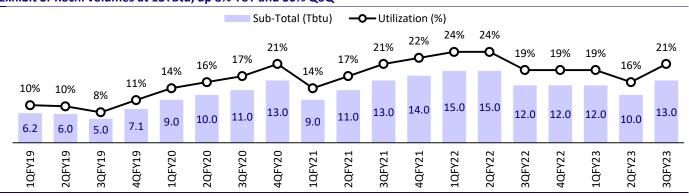
Source: Company, MOFSL

Exhibit 2: Dahej terminal utilization at 70% in 3QFY23



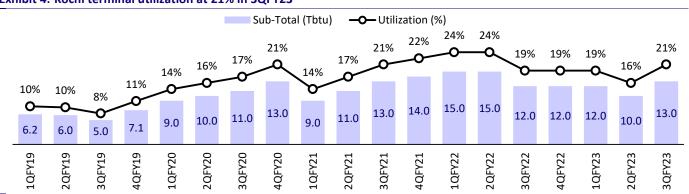
Source: Company, MOFSL

Exhibit 3: Kochi volumes at 13TBtu, up 8% YoY and 30% QoQ



Source: Company, MOFSL

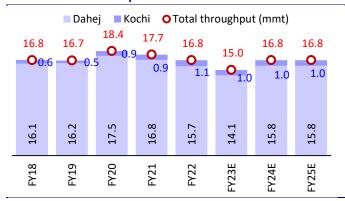
Exhibit 4: Kochi terminal utilization at 21% in 3QFY23



Source: Company, MOFSL

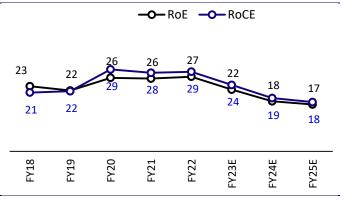
Story in charts

Exhibit 5: Volume snapshot for PLNG



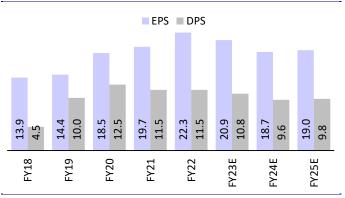
Source: Company, MOFSL

Exhibit 6: Return ratios profile



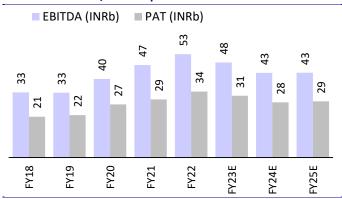
Source: Company, MOFSL

Exhibit 7: Payout ratios for PLNG



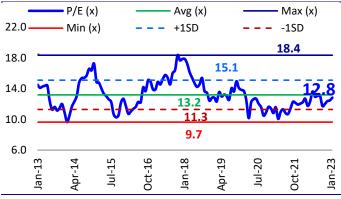
Source: Company, MOFSL

Exhibit 8: EBITDA/PAT snapshot for PLNG



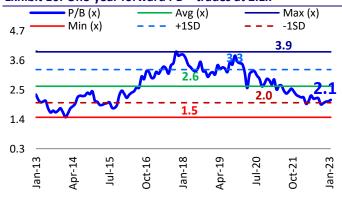
Source: Company, MOFSL

Exhibit 9: One-year forward P/E – trades at 12.8x



Source: Company, MOFSL

Exhibit 10: One-year forward PB - trades at 2.1x



Source: Company, MOFSL

Financials and valuations

Appl. of Funds

Standalone - Income Statement Y/E March	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E	(INR m
Total Income from Operations	3,05,986	3,83,954	3,54,520	2,60,229	4,31,686	5,77,675	5,52,060	5,45,58
Change (%)	24.3	25.5	-7.7	-26.6	65.9	33.8	-4.4	-1.
EBITDA	33,124	32,935	39,895	46,995	52,523	48,314	42,992	43,09
Margin (%)	10.8	8.6	11.3	18.1	12.2	8.4	7.8	7.
Depreciation	4,117	4,112	7,761	7,841	7,685	8,047	8,625	9,32
EBIT	29,007	28,822	32,134	39,155	44,839	40,267	34,367	33,76
Int. and Finance Charges	1,630	989	4,032	3,360	3,173	3,260	2,484	1,98
Other Income	3,174	4,503	3,726	3,882	3,073	5,011	5,582	6,39
PBT bef. EO Exp.	30,551	32,336	31,827	39,677	44,738	42,017	37,465	38,17
EO Items	0	0	-721	0	0	0	0	
PBT after EO Exp.	30,551	32,336	31,107	39,677	44,738	42,017	37,465	38,17
Total Tax	9,773	10,782	4,131	10,183	11,215	10,635	9,441	9,62
Tax Rate (%)	32.0	33.3	13.3	25.7	25.1	25.3	25.2	25.
Reported PAT	20,779	21,554	26,976	29,494	33,524	31,383	28,024	28,55
Adjusted PAT	20,779	21,554	27,697	29,494	33,524	31,383	28,024	28,55
Change (%)	21.8 6.8	3.7 5.6	28.5	6.5	13.7	-6.4	-10.7	1.
Margin (%)	0.0	5.0	7.8	11.3	7.8	5.4	5.1	5.
Standalone - Balance Sheet								(INR m
Y/E March	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E	FY25
Equity Share Capital	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,00
Total Reserves	82,205	85,661	94,530	1,01,495	1,19,255	1,34,489	1,48,093	1,61,95
Net Worth	97,205	1,00,661	1,09,530	1,16,495	1,34,255	1,49,489	1,63,093	1,76,95
Total Loans	7,334	1,012	644	644	230	184	147	11
Deferred Tax Liabilities	10,482	13,360	8,883	8,806	8,324	8,324	8,324	8,32
Capital Employed	1,15,021	1,15,033	1,19,057	1,25,945	1,42,809	1,57,997	1,71,564	1,85,39
Gross Block	91,316	91,783	99,860	1,03,544	1,06,915	1,13,456	1,22,764	1,32,62
Less: Accum. Deprn.	11,020	15,132	22,894	30,734	38,419	46,466	55,091	64,41
Net Fixed Assets	80,296	76,651	76,967	72,810	68,496	66,991	67,674	68,21
Capital WIP	2,203	3,482	47	255	1,926	5,385	6,077	6,21
Total Investments Lease Liabilities	41,223	9,893	38,406 35,885	45,817	37,578	37,578	37,578	37,57
Curr. Assets, Loans&Adv.	32,815	60,823	71,570	33,217 70,082	31,332 1,03,191	31,332 1,28,955	31,332 1,38,949	31,33 1,51,54
Inventory	4,911	5,694	4,809	3,372	5,767	7,717	7,375	7,28
Account Receivables	16,505	14,335	16,427	18,745	26,844	35,923	34,330	33,92
Cash and Bank Balance	8,625	29,603	44,320	43,423	43,196	48,670	62,224	75,72
Cash	7,043	2,266	9,760	8,493	10,472	15,947	29,501	43,00
Bank Balance	1,582	27,337	34,560	34,930	32,724	32,724	32,724	32,72
Loans and Advances	2,774	11,190	6,014	4,541	27,384	36,645	35,020	34,60
Curr. Liability & Prov.	41,517	35,815	32,048	29,802	37,050	49,580	47,382	46,82
Account Payables	15,699	12,952	11,661	10,355	15,265	20,427	19,521	19,29
Other Current Liabilities	25,619	22,585	20,057	18,464	20,583	27,543	26,322	26,01
Provisions	199	278	330	983	1,203	1,610	1,538	1,52

22 January 2023 5

1,54,942

1,59,162

1,74,141

1,89,329

2,02,895

2,16,727

1,15,021

1,15,033

FY20

FY21

FY22

FY23E

FY24E

FY25E

FY19

FY18

Financials and valuations

Ratios Y/E March

Y/E March	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E	FY25E
Basic (INR)								
EPS	13.9	14.4	18.5	19.7	22.3	20.9	18.7	19.0
Cash EPS	16.6	17.1	23.6	24.9	27.5	26.3	24.4	25.3
BV/Share	64.8	67.1	73.0	77.7	89.5	99.7	108.7	118.0
DPS	4.5	10.0	12.5	11.5	11.5	10.8	9.6	9.8
Payout (%)	38.0	74.9	73.8	58.5	51.5	51.5	51.5	51.5
Valuation (x)								
P/E	16.1	15.5	12.1	11.3	10.0	10.6	11.9	11.7
Cash P/E	13.4	13.0	9.4	8.9	8.1	8.5	9.1	8.8
P/BV	3.4	3.3	3.0	2.9	2.5	2.2	2.0	1.9
EV/Sales	1.1	0.8	0.8	1.1	0.7	0.5	0.5	0.5
EV/EBITDA	10.0	9.3	7.3	6.2	5.5	5.9	6.3	6.0
Dividend Yield (%)	2.0	4.5	5.6	5.2	5.2	4.8	4.3	4.4
FCF per share	18.8	13.2	21.7	23.2	22.7	16.6	20.3	20.1
Return Ratios (%)								
RoE	23.3	21.8	26.4	26.1	26.7	22.1	17.9	16.8
RoCE	21.1	21.5	29.4	28.1	28.5	23.8	19.1	17.7
RoIC	28.1	28.5	51.4	80.0	69.6	47.6	38.9	38.4
Working Capital Ratios								
Fixed Asset Turnover (x)	3.4	4.2	3.6	2.5	4.0	5.1	4.5	4.1
Asset Turnover (x)	2.7	3.3	2.3	1.6	2.5	3.1	2.7	2.5
Inventory (Days)	6	5	5	5	5	5	5	5
Debtor (Days)	20	14	17	26	23	23	23	23
Creditor (Days)	19	12	12	15	13	13	13	13
Leverage Ratio (x)								
Current Ratio	0.8	1.7	2.2	2.4	2.8	2.6	2.9	3.2
Interest Cover Ratio	17.8	29.1	8.0	11.7	14.1	12.4	13.8	17.0
Net Debt/Equity	0.0	-0.3	-0.4	-0.4	-0.3	-0.3	-0.4	-0.4
Standalone - Cash Flow Statement								(INR m)
Y/E March	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E	FY25E
OP/(Loss) before Tax	30,551	32,336	31,107	39,677	44,738	42,017	37,465	38,173
Depreciation	4,117	4,112	7,761	7,841	7,685	8,047	8,625	9,325
Interest and Finance charges	1,630	989	4,032	3,360	3,173	3,260	2,484	1,987
Direct Taxes Paid	-6,968	-8,133	-4,745	-9,949	-12,642	-10,635	-9,441	-9,620
(Inc)/Dec in Wkg. Capital	2,947	-4,522	-3,964	-1,746	-6,339	-7,760	1,361	344
Others	-2,320	-3,368	-729	-3,590	-1,893	-5,011	-5,582	-6,393
CF from Op. Activity	29,956	21,414	33,462	35,593	34,721	34,930	40,494	40,210
(Inc)/Dec in FA & CWIP	-1,753	-1,628	-889	-730	-723	-10,000	-10,000	-10,000
Free Cash Flow	28,204	19,787	32,573	34,862	33,998	24,930	30,494	30,210
(Pur)/Sale of Investments	-9,508	33,167	-3,273	-11,586	5,521	0	0	0
Others	-1,515	-32,255	944	3,043	-15,431	0	0	0
CF from Inv. Activity	-12,776	-716	-3,218	-9,273	-10,633	-10,000	-10,000	-10,000
Inc / (Dec) in Debt	-7,052	-6,202	-138	-368	-414	-46	-37	-29
Interest paid	-1,782	-1,191	-1,785	-3,360	-3,173	-3,260	-2,484	-1,987
Dividends Paid (incl.tax)	-4,513	-18,083	-8,138	-22,452	-15,750	-16,148	-14,420	-14,692
CF from Fin. Activity	-13,347	-25,476	-22,749	-27,586	-22,109	-19,455	-16,941	-16,709
Inc / (Dec) in Cash	3,834	-4,778	7,495	-1,267	1,979	5,475	13,554	13,501
Add: Opening Balance	3,210	7,043	2,266	9,760	8,493	10,472	15,947	29,501
Closing Balance	7,043	2,265	9,760	8,494	10,472	15,947	29,501	43,001
	•		· · · · · · · · · · · · · · · · · · ·		,	,	,	,

Explanation of Investment Rating							
Investment Rating	Expected return (over 12-month)						
BUY	>=15%						
SELL	<-10%						
NEUTRAL	< - 10 % to 15%						
UNDER REVIEW	Rating may undergo a change						
NOT RATED	We have forward looking estimates for the stock but we refrain from assigning recommendation						

*In case the recommendation given by the Research Analyst is inconsistent with the investment rating legend for a continuous period of 30 days, the Research Analyst shall be within following 30 days take appropriate measures to make the recommendation consistent with the investment rating legend.

The following Disclosures are being made in compliance with the SEBI Research Analyst Regulations 2014 (herein after referred to as the Regulations).

Motilal Oswal Financial Services Ltd. (MOFSL) is a SEBI Registered Research Analyst having registration no. INH000000412. MOFSL, the Research Entity (RE) as defined in the Regulations, is engaged in the business of providing Stock broking services, Depository participant services & distribution of various financial products. MOFSL is a listed public company, the details in respect of which are available on www.motilaloswal.com. MOFSL (erstwhile Motilal Oswal Securities Limited - MOSL) is registered with the Securities & Exchange Board of India (SEBI) and is a registered Trading Member with National Stock Exchange of India Ltd. (NSE) and Bombay Stock Exchange Limited (BSE), Multi Commodity Exchange of India Limited (MCX) and National Commodity & Derivatives Exchange Limited (NCDEX) for its stock broking activities & is Depository participant with Central Depository Services Limited (CDSL) National Securities Depository Limited (NSDL), NERL, COMRIS and CCRL and is member of Association of Mutual Funds of India (AMFI) for distribution of financial products and Insurance Regulatory & Development Authority of India (IRDA) as Corporate Agent for insurance products. Details of associate entities of Motilal Oswal Financial Services Limited are available on the website at http://onlinereports.motilaloswal.com/Dormant/documents/List%20

MOFSL and its associate company(ies), their directors and Research Analyst and their relatives may; (a) from time to time, have a long or short position in, act as principal in, and buy or sell the securities or derivatives thereof of companies mentioned herein. (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies) or may have any other potential conflict of interests with respect to any recommendation and other related information and opinions, however the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.

MOFSL and / or its affiliates do and seek to do business including investment banking with companies covered in its research reports. As a result, the recipients of this report should be aware that MOFSL may have a potential conflict of interest that may affect the objectivity of this report. Compensation of Research Analysts is not based on any specific merchant banking, investment banking or brokerage service transactions. Details of pending Énquiry Proceedings of Motilal Oswal Financial Services Limited are available on the website at https://galaxy.motilaloswal.com/ResearchAnalyst/PublishViewLitigation.aspx

A graph of daily closing prices of securities is available at www.nseindia.com, www.bseindia.com. Research Analyst views on Subject Company may vary based on Fundamental research and Technical Research. Proprietary trading desk of MOFSL or its associates maintains arm's length distance with Research Team as all the activities are segregated from MOFSL research activity and therefore it can have an independent view with regards to Subject Company for which Research Team have expressed their views.

Regional Disclosures (outside India)

This report is not directed or intended for distribution to or use by any person or entity resident in a state, country or any jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject MOFSL & its group companies to registration or licensing requirements within such jurisdictions.

For Hong Kong:

This report is distributed in Hong Kong by Motilal Oswal capital Markets (Hong Kong) Private Limited, a licensed corporation (CE AYY-301) licensed and regulated by the Hong Kong Securities and Futures Commission (SFC) pursuant to the Securities and Futures Ordinance (Chapter 571 of the Laws of Hong Kong) "SFO". As per SEBI (Research Analyst Regulations) 2014 Motilal Oswal Securities (SEBI Reg. No. INH000000412) has an agreement with Motilal Oswal capital Markets (Hong Kong) Private Limited for distribution of research report in Hong Kong. This report is intended for distribution only to "Professional Investors" as defined in Part I of Schedule 1 to SFO. Any investment or investment activity to which this document relates is only available to professional investor and will be engaged only with professional investors." Nothing here is an offer or solicitation of these securities, products and services in any jurisdiction where their offer or sale is not qualified or exempt from registration. The Indian Analyst(s) who compile this report is/are not located in Hong Kong & are not conducting Research Analysis in Hong Kong.

Motilal Oswal Financial Services Limited (MOFSL) is not a registered broker - dealer under the U.S. Securities Exchange Act of 1934, as amended (the "1934 act") and under applicable state laws in the United States. In addition MOFSL is not a registered investment adviser under the U.S. Investment Advisers Act of 1940, as amended (the "Advisers Act" and together with the 1934 Act, the "Acts), and under applicable state laws in the United States. Accordingly, in the absence of specific exemption under the Acts, any brokerage and investment services provided by MOFSL, including the products and services described herein are not available to or intended for U.S. persons. This report is intended for distribution only to "Major Institutional Investors" as defined by Rule 15a-6(b)(4) of the Exchange Act and interpretations thereof by SEC (henceforth referred to as "major institutional investors"). This document must not be acted on or relied on by persons who are not major institutional investors. Any investment or investment activity to which this document relates is only available to major institutional investors and will be engaged in only with major institutional investors. In reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act") and interpretations thereof by the U.S. Securities and Exchange Commission ("SEC") in order to conduct business with Institutional Investors based in the U.S., MOFSL has entered into a chaperoning agreement with a U.S. registered broker-dealer, Motilal Oswal Securities International Private Limited. ("MOSIPL"). Any business interaction pursuant to this report will have to be executed within the provisions of this chaperoning agreement.

The Research Analysts contributing to the report may not be registered /qualified as research analyst with FINRA. Such research analyst may not be associated persons of the U.S. registered broker-dealer, MOSIPL, and therefore, may not be subject to NASD rule 2711 and NYSE Rule 472 restrictions on communication with a subject company, public appearances and trading securities held by a research analyst account.

For Singapore

In Singapore, this report is being distributed by Motilal Oswal Capital Markets Singapore Pte Ltd ("MOCMSPL") (Co. Reg. NO. 201129401Z) which is a holder of a capital markets services license and an exempt financial adviser in Singapore. As per the approved agreement under Paragraph 9 of Third Schedule of Securities and Futures Act (CAP 289) and Paragraph 11 of First Schedule of Financial Advisors Act (CAP 110) provided to MOCMSPL by Monetary Authority of Singapore. Persons in Singapore should contact MOCMSPL in respect of any matter arising from, or in connection with this report/publication/communication. This report is distributed solely to persons who qualify as "Institutional Investors", of which some of whom may consist of "accredited" institutional investors as defined in section 4A(1) of the Securities and Futures Act, Chapter 289 of Singapore ("the SFA"). Accordingly, if a Singapore person is not or ceases to be such an institutional investor, such Singapore Person must immediately discontinue any use of this Report and inform MOCMSPL.

Specific Disclosures

- MOFSL, Research Analyst and/or his relatives does not have financial interest in the subject company, as they do not have equity holdings in the subject company.
- MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- MOFSL, Research Analyst and/or his relatives do not have material conflict of interest in the subject company at the time of publication of research report
- Research Analyst has not served as director/officer/employee in the subject company
- MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- MOFSL has not received compensation for investment banking/ merchant banking/brokerage services from the subject company in the past 12 months MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- MOFSL has not received any compensation or other benefits from third party in connection with the research report
- 10 MOFSL has not engaged in market making activity for the subject company

22 January 2023

The associates of MOFSL may have:

- financial interest in the subject company
- actual/beneficial ownership of 1% or more securities in the subject company at the end of the month immediately preceding the date of publication of the Research Report or date of the public appearance.
- received compensation/other benefits from the subject company in the past 12 months
- any other potential conflict of interests with respect to any recommendation and other related information and opinions.; however, the same shall have no bearing whatsoever on the specific recommendations made by the analyst(s), as the recommendations made by the analyst(s) are completely independent of the views of the associates of MOFSL even though there might exist an inherent conflict of interest in some of the stocks mentioned in the research report.
- acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) discussed herein or act as an advisor or lender/borrower to such company(ies)
- received compensation from the subject company in the past 12 months for investment banking / merchant banking / brokerage services or from other than said services.
- Served subject company as its clients during twelve months preceding the date of distribution of the research report.

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

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

Analyst Certification

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

Terms & Conditions:

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

Disclaimer:

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

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022-3980 4263; www.motilaloswal.com. Correspondence Address: Palm Spring Centre, 2nd Floor, Palm Court Complex, New Link Road, Malad (West), Mumbai- 400 064. Tel No: 022 71881000. Details of Compliance Officer: Neeraj Agarwal, Email Id: na@motilaloswal.com, Contact No::022-71881085.

Registration details of group entities.: Motilal Oswal Financial Services Ltd. (MOFSL): INZ000158836 (BSE/NSE/MCX/NCDEX); CDSL: IN-DP-16-2015; NSDL: IN-DP-NSDL-152-2000; Research Analyst: INH000000412. AMFI: ARN.: 146822. IRDA Corporate Agent – CA0579. Motilal Oswal Financial Services Ltd. is a distributor of Mutual Funds, PMS, Fixed Deposit, Insurance, Bond, NCDs and IPO products. Customer having any query/feedback/ clarification may write to query@motilaloswal.com. In case of grievances for any of the services rendered by Motilal Oswal Financial Services Limited (MOFSL) write to grievances@motilaloswal.com, for DP to dpgrievances@motilaloswal.com.