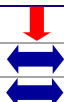


# Deepak Nitrite

## Estimate changes

TP change

Rating change



Bloomberg	DN IN
Equity Shares (m)	136
M.Cap.(INRb)/(USDb)	283.7 / 3.5
52-Week Range (INR)	2690 / 1682
1, 6, 12 Rel. Per (%)	-10/-4/-12
12M Avg Val (INR M)	1879

## Financials & Valuations (INR b)

Y/E March	FY22	FY23E	FY24E
Sales	68.0	79.9	79.7
EBITDA	16.0	15.1	17.7
PAT	10.7	10.0	11.7
EPS (INR)	78.2	73.4	85.9
EPS Gr. (%)	37.5	(6.2)	17.1
BV/Sh.(INR)	245	307	380

## Ratios

Net D:E	0.1	0.0	(0.1)
RoE (%)	37.5	26.6	25.0
RoCE (%)	32.1	24.5	23.7
Payout (%)	9.0	15.0	15.0

## Valuations

P/E (x)	26.6	28.4	24.2
P/BV (x)	8.5	6.8	5.5
EV/EBITDA (x)	17.9	18.9	15.8
Div. Yield (%)	0.3	0.5	0.6
FCF Yield (%)	2.2	1.0	2.4

## Shareholding pattern (%)

As On	Sep-22	Jun-22	Sep-21
Promoter	45.7	45.7	45.7
DII	12.0	10.7	10.6
FII	8.5	9.1	10.9
Others	33.8	34.5	32.9

FII Includes depository receipts

**CMP: INR2080**

**TP: INR1,890 (-9%)**

**Neutral**

## Contraction in Phenol margin, but recovery expected

- Deepak Nitrite (DN) reported a miss on our estimate. EBITDA came in 9% lower than our estimate at INR2.7b, while EBITDA margin – at 13.8% – was also below our estimate of 16.3%, the lowest since 1QFY19. **The miss was largely due to the Phenolic segment. EBIT margin contracted to 8% in Deepak Phenolics, the lowest since 4QFY20.**
- Management announced that it has commissioned a project (for an agrochemical product) in Oct'22 for which the entire volumes are tied up for the next five years – it expects another project to be commissioned in Nov'22, which would be margin accretive.
- A product for the EU market (developed in-house) was also launched and DN is only the second manufacturer of the same globally. This would be replacing a product recently banned for being carcinogenic. The performance of DN was also adversely affected by the fire incident in its Nandesari site but the plant is running at full capacity since Oct'22.
- We raise our FY23/24 revenue estimates by 8%/7% primarily due to the commissioning of new products, Nandesari plant running at full capacity and the company being successful in passing on the cost increases with demand remaining robust. However, given the contraction in Phenol margins in 2QFY23 and the underperformance of the Phenolic segment in 1HFY23 v/s last year, we cut our EBITDA/EPS estimates by 8%/9% for FY23E, respectively.
- The stock trades at 24x/23x FY23E/FY24E EPS. With pricing environment remaining volatile and limited earnings growth opportunities until the time Greenfield expansions get commissioned (phenol downstream products would result in captive phenol consumption of 35-40%), we maintain our **Neutral** rating. **We value the stock at 22x FY24E EPS, to arrive at our TP of INR1,890.**

## Miss on EBITDA as margin remains suppressed

- DN's revenue was above our estimate at INR19.6b, up 17% YoY, but down 5% QoQ. EBITDA declined 30% YoY and 24% QoQ to INR2.7b (est. INR3b). **EBITDAM stood at 13.8% (v/s 17.3% in 1QFY23) – the lowest since 1QFY19.** Gross margin contracted 370bp QoQ to 30.2%. PAT dipped 31% YoY and 26% QoQ to INR1.7b (est. INR1.9b),, **translating into an EPS of INR12.8.**
- The **EBIT margin in Phenolics stood at 8%** (the lowest since 4QFY20), with EBIT at INR1b. The **EBIT margin in Advanced Intermediates stood at 20%** (v/s 18% in 1QFY23), with EBIT at INR1.4b. Revenue mix in Phenolics/Advanced Intermediates stood at 65%/35% in 2QFY23, respectively. EBIT mix in Advanced Intermediates/Phenolics stood at 57%/43% v/s 41%/59% in 1QFY23, respectively.
- The Nandesari plant, which was adversely impacted by a fire incident in Jun'22, turned fully operational in Oct'22.
- DN has incorporated a company in the Sultanate of Oman – Deepak Oman Industries FZC – to set up a chemical manufacturing plant.

**Swarnendu Bhushan- Research Analyst** (Swarnendu.Bhushan@MotilalOswal.com)

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

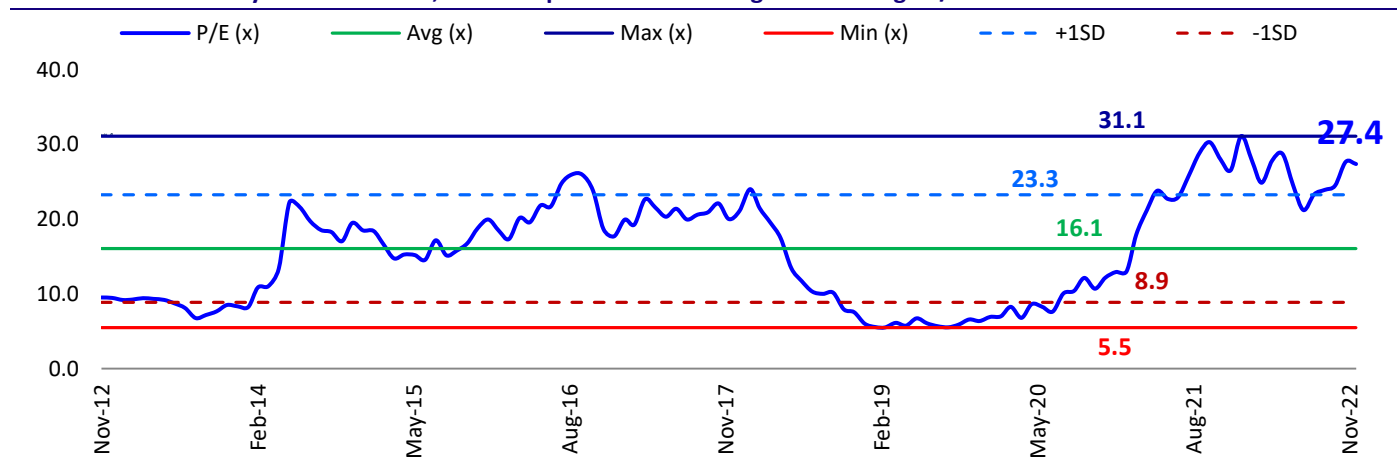
Motilal Oswal research is available on [www.motilaloswal.com/Institutional-Equities](http://www.motilaloswal.com/Institutional-Equities), Bloomberg, Thomson Reuters, Factset and S&P Capital.

**Valuation and view**

- The management aims to become the largest player in Solvents, with a play on import substitution. It has already announced its foray into MIBK (40ktpa), MIBC (8ktpa) and Polycarbonate. Note that MIBC is a forward integration of MIBK.
- Despite a capex of INR15b over the next two years, DN is likely to turn net cash positive by FY24, with an FCF generation of INR9.6b over FY23-24. Return ratios are forecasted to be at 4-27%, significantly lower than that of FY22.
- However, the management's focus remains on commodities, rather than specialty products or complex commodities, as of now. **We maintain our Neutral rating, valuing DN at 22x FY24E EPS to arrive at our TP of INR1,890.**

**Consolidated - Quarterly Snapshot**

Y/E March	FY22				FY23				(INR m)		
	1Q	2Q	3Q	4Q	1Q	2Q	3QE	4QE	FY22	FY23E	FY23
<b>Gross Sales</b>	<b>15,262</b>	<b>16,814</b>	<b>17,223</b>	<b>18,724</b>	<b>20,580</b>	<b>19,617</b>	<b>19,825</b>	<b>19,920</b>	<b>68,022</b>	<b>79,941</b>	<b>18,304</b>
YoY Change (%)	126.3	70.3	39.5	28.0	34.8	16.7	15.1	6.4	56.0	17.5	8.9
Gross Margin (%)	46.3%	37.4%	37.0%	38.2%	33.9%	30.2%	33.2%	37.8%	39.5%	33.8%	31.6%
<b>EBITDA</b>	<b>4,515</b>	<b>3,865</b>	<b>3,519</b>	<b>4,103</b>	<b>3,560</b>	<b>2,709</b>	<b>3,547</b>	<b>5,319</b>	<b>16,002</b>	<b>15,134</b>	<b>2,975</b>
Margin (%)	29.6	23.0	20.4	21.9	17.3	13.8	17.9	26.7	23.5	18.9	16.3
Depreciation	436	441	455	446	419	424	562	737	1,777	2,143	549
Interest	109	92	68	71	86	59	51	8	340	204	56
Other Income	83	84	258	35	96	120	219	148	460	584	128
<b>PBT</b>	<b>4,053</b>	<b>3,417</b>	<b>3,253</b>	<b>3,622</b>	<b>3,151</b>	<b>2,346</b>	<b>3,152</b>	<b>4,722</b>	<b>14,345</b>	<b>13,371</b>	<b>2,498</b>
Tax	1,026	873	829	950	805	601	1,014	945	3,678	3,365	628
Rate (%)	25.3	25.6	25.5	26.2	25.5	25.6	32.2	20.0	25.6	25.2	25.2
<b>Reported PAT</b>	<b>3,026</b>	<b>2,543</b>	<b>2,425</b>	<b>2,672</b>	<b>2,346</b>	<b>1,745</b>	<b>2,138</b>	<b>3,777</b>	<b>10,666</b>	<b>10,005</b>	<b>1,870</b>
YoY Change (%)	205.8	49.4	12.0	-7.9	-22.5	-31.4	-11.8	41.3	37.5	-6.2	-26.5
Margin (%)	19.8	15.1	14.1	14.3	11.4	8.9	10.8	19.0	15.7	12.5	10.2
<b>Segmental Revenue (INR m)</b>											
Advanced Intermediates	5,491	5,697	7,224	7,953	7,300	6,853	7,450	8,338	26,365	29,941	7,485
Phenolics	9,990	11,370	10,331	11,221	13,349	12,841	12,375	11,435	42,912	50,000	10,819
<b>Segmental EBIT (INR m)</b>											
Advanced Intermediates	1,546	1,322	1,690	2,131	1,327	1,384	1,765	2,584	6,688	7,059	1,782
Phenolics	2,873	2,204	1,836	1,759	1,877	1,027	1,500	1,596	8,671	6,000	1,619
<b>Segmental EBIT Margins (%)</b>											
Advanced Intermediates	28%	23%	23%	27%	18%	20%	24%	31%	25%	24%	24%
Phenolics	29%	19%	18%	16%	14%	8%	12%	14%	20%	12%	15%

**Exhibit 1: DN currently trades at 27.4x, at a 70% premium to its long-term average P/E**

Source: Company, MOSL



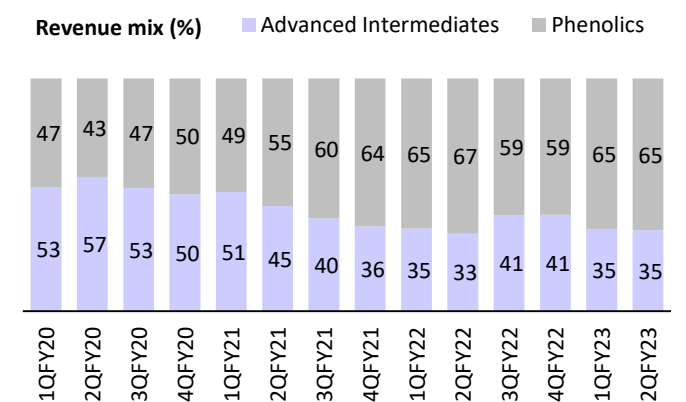
### Management commentary – Key highlights:

- Full production capacity achieved in Oct'22 in the Nandesari plant
- In Jul'22, operations resumed using natural gas and not coal. P&L impact was to the tune of INR40m.
- Volatile global environment, sustainable inflationary pressure and higher freight rates were seen in 2QFY23
- Wallet share has either remained stable or increased in 2QFY23 despite challenges
- RM movement was not in line with finished goods movement
- China saw moderation in demand due to elections
- Cost of key RMs including utilities was volatile and higher in 2QFY23
- DN was successful in passing on the cost increases with demand remaining robust
- DPL achieved high average plant utilization during 1HFY23, for 2Q it was similar to 1QFY23
- Expect DPL margins to be better in the coming quarters as prices normalize
- All projects are on track to be commissioned in phases as announced earlier
- Commissioned a project in Oct'22 and the entire volume for the next five years is tied up for an agrochemical product
  - DN has leadership position and it is the 2nd or the 3rd largest player in the world
- Expect another project to be commissioned in Nov'22, which is margin accretive
- DN also commissioned an unnamed product for the EU market which was recently banned for its carcinogenic properties; it is only the second manufacturer of this product in the world
  - Targeted globally but prioritizing in Europe right now, would be replacing the banned product
  - DN has developed the product in-house
- It has also announced a chemical manufacturing unit in the Sultanate of Oman for products that use energy as an input since cost of energy is much lesser in the Middle East
- 51% of equity being invested with DN having deep customer connect and market insight
- In DN, there was no volume growth and in DPL 10% volume growth was observed

Management plans to expand Hydrogenation and Nitration capacities including getting into new chemistries such as fluorination and photo chlorination (as announced earlier).

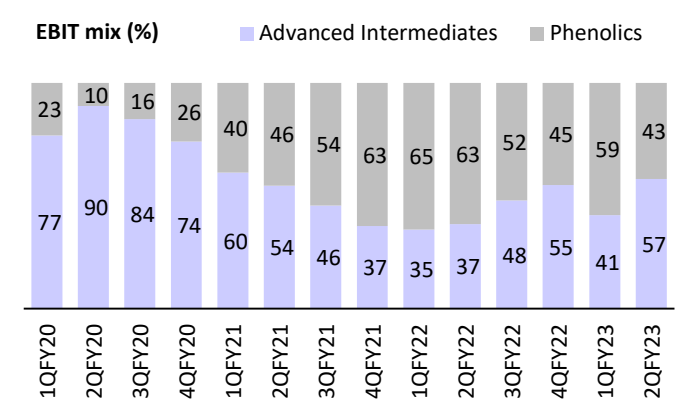
## Story in charts – 2QFY23

**Exhibit 2: Contribution of Phenolics in total revenue remained stable at 65% in 2QFY23 QoQ...**



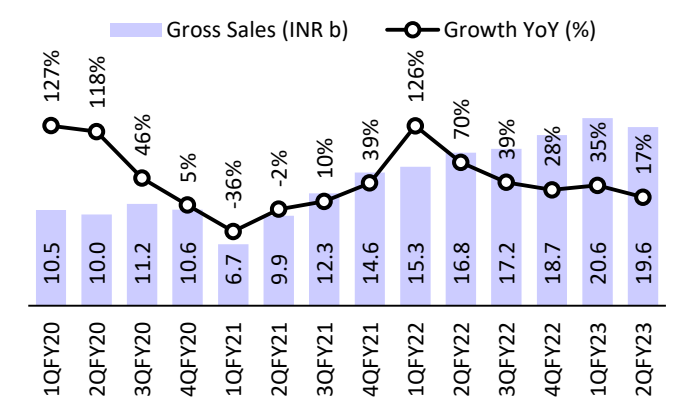
Source: Company, MOFSL

**Exhibit 3: ...with Phenolics' contribution to EBIT mix declining to 43% QoQ from 59% in 1QFY23**



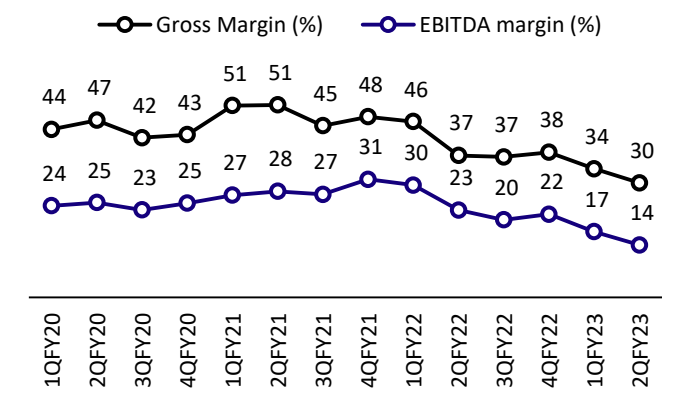
Source: Company, MOFSL

**Exhibit 1: Sales rose 17% QoQ, -5% YoY**



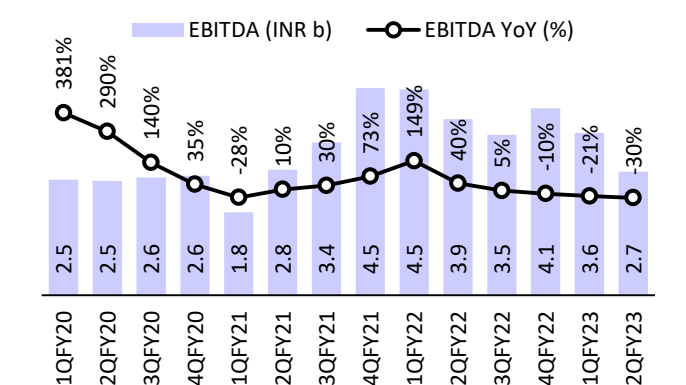
Source: Company, MOFSL

**Exhibit 2: Margins continued to decline**



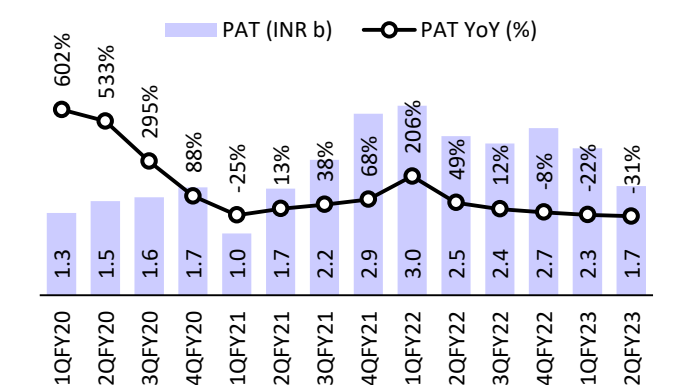
Source: Company, MOFSL

**Exhibit 3: EBITDA declined 24% QoQ (margin at 13.8%)**

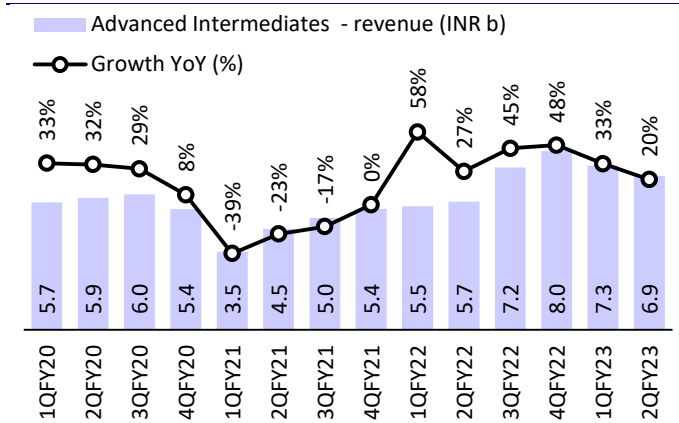


Source: Company, MOFSL

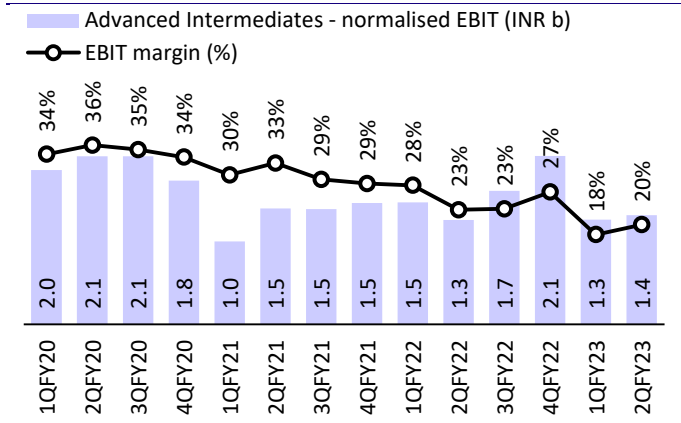
**Exhibit 4: PAT declined 26% QoQ (margin at 8.9%)**



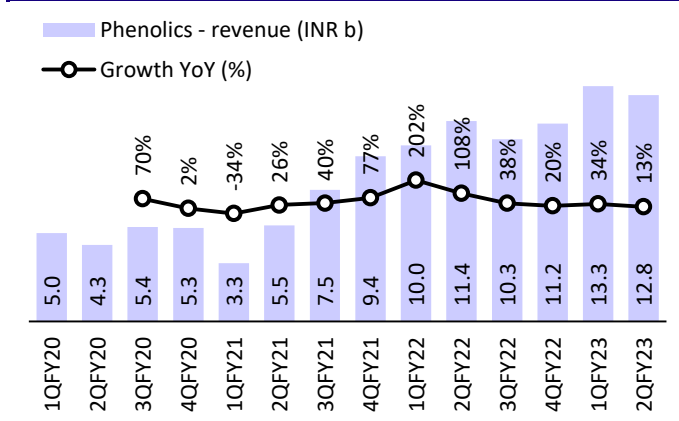
Source: Company, MOFSL

**Exhibit 5: Revenue from Advanced Intermediates declined 6% QoQ...**

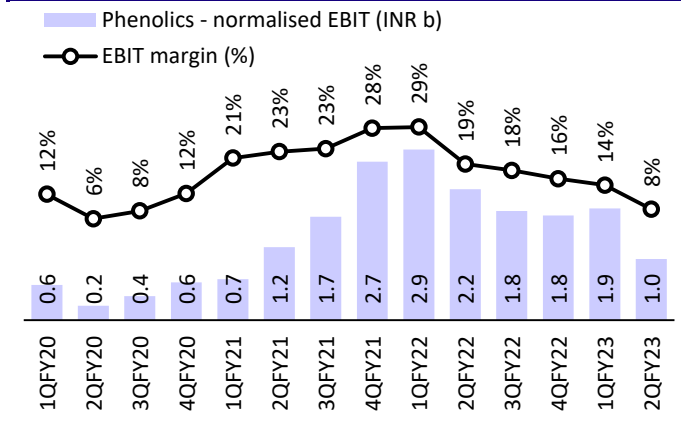
Source: Company, MOFSL

**Exhibit 6: ...with a decline (+200bp) in EBIT margin**

Source: Company, MOFSL

**Exhibit 7: Revenue for Deepak Phenolics declined 4% QoQ...**

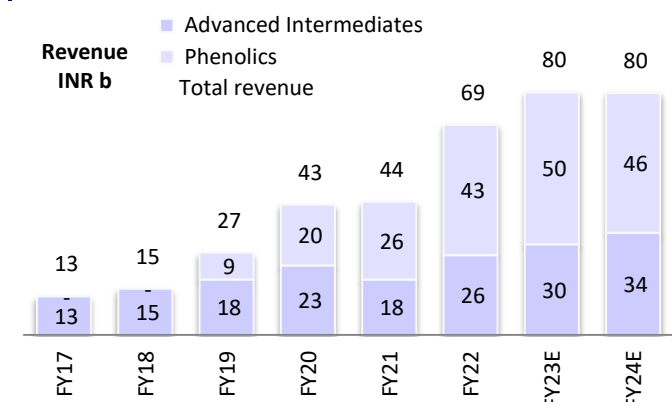
Source: Company, MOFSL

**Exhibit 8: ...with EBIT margin at 8%**

Source: Company, MOFSL

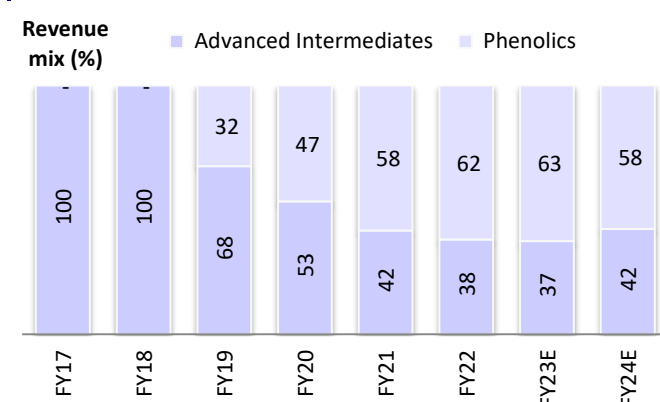
## Financial story in charts

**Exhibit 9: Revenue growth peaked as product prices in DPL normalizes going forward...**



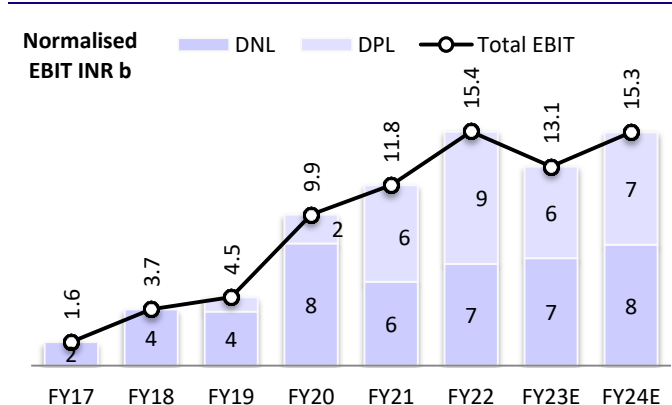
Source: MOFSL

**Exhibit 10: ...resulting in a lower contribution from DPL in the total revenue mix**



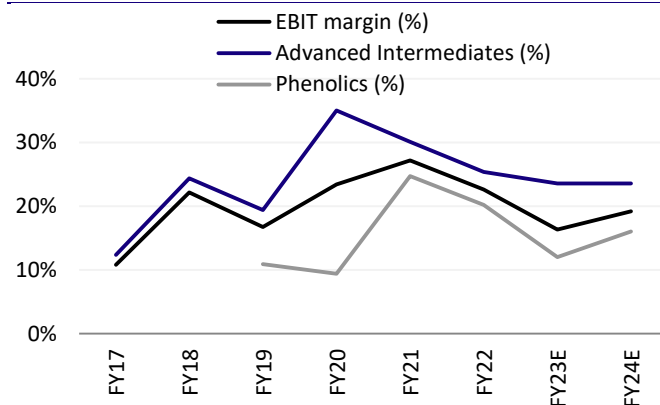
Source: Company, MOFSL

**Exhibit 11: Expect normalized EBIT margin to stabilize at ~15%**



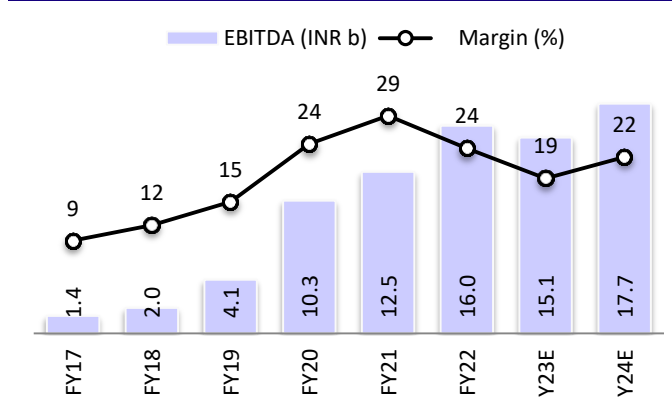
Source: Company, MOFSL

**Exhibit 12: ...with Advanced Intermediates still enjoying a higher EBIT margin (estimate ~24%)**



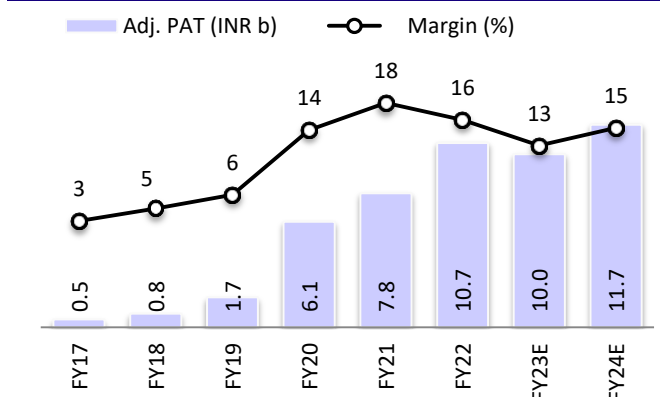
Source: Company, MOFSL

**Exhibit 13: EBITDA margin to normalize from FY21 levels**



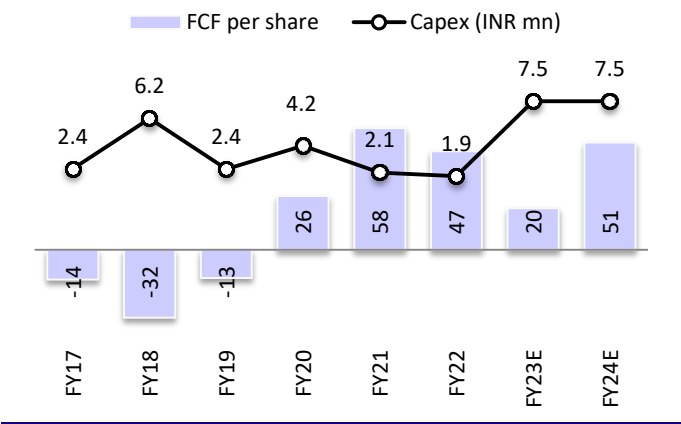
Source: Company, MOFSL

**Exhibit 14: Expect ~5% PAT CAGR over FY22-24**



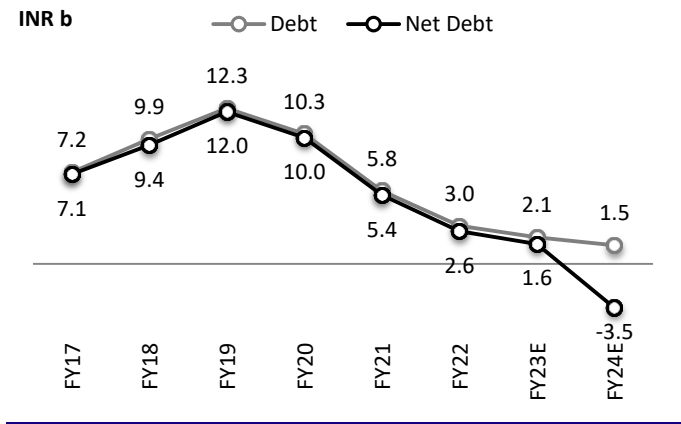
Source: Company, MOFSL

Exhibit 15: DN to incur ~INR15b on capex over FY23-24E...



Source: Company, MOFSL

Exhibit 16: ...but is likely to turn net cash positive in FY24E



Source: Company, MOFSL

## Financials and valuations

Consolidated - Income Statement							(INR m)	
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
Total Income from Operations	14,547	16,762	26,999	42,297	43,598	68,022	79,941	79,726
Change (%)	-0.2	15.2	61.1	56.7	3.1	56.0	17.5	-0.3
Gross Margin (%)	41.9	38.0	39.0	43.9	48.1	39.5	33.8	37.6
EBITDA	1,355	1,963	4,139	10,258	12,470	16,036	15,134	17,742
Margin (%)	9.3	11.7	15.3	24.3	28.6	23.6	18.9	22.3
Depreciation	480	526	778	1,397	1,526	1,777	2,143	2,508
EBIT	874	1,437	3,361	8,861	10,944	14,259	12,992	15,234
Int. and Finance Charges	341	451	832	1,149	742	340	204	143
Other Income	109	123	151	352	215	426	584	566
PBT bef. EO Exp.	642	1,109	2,680	8,064	10,417	14,345	13,371	15,657
EO Items	705	0	0	0	0	0	0	0
PBT after EO Exp.	1,347	1,109	2,680	8,064	10,417	14,345	13,371	15,657
Total Tax	382	318	943	1,954	2,659	3,678	3,365	3,941
Tax Rate (%)	28.4	28.7	35.2	24.2	25.5	25.6	25.2	25.2
Reported PAT	963	790	1,737	6,110	7,758	10,666	10,005	11,716
Adjusted PAT	458	790	1,737	6,110	7,758	10,666	10,005	11,716
Change (%)	-26.9	72.4	119.8	251.9	27.0	37.5	-6.2	17.1
Margin (%)	3.2	4.7	6.4	14.4	17.8	15.7	12.5	14.7

Consolidated - Balance Sheet							(INR m)	
Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
Equity Share Capital	261	273	273	273	273	273	273	273
Total Reserves	6,887	8,949	10,443	15,446	23,194	33,112	41,616	51,575
Net Worth	7,149	9,221	10,716	15,719	23,467	33,384	41,889	51,848
Total Loans	7,239	9,866	12,286	10,279	5,775	3,007	2,105	1,473
Deferred Tax Liabilities	391	454	775	796	1,078	1,229	1,229	1,229
Capital Employed	14,778	19,541	23,776	26,794	30,320	37,620	45,222	54,550
Gross Block	6,106	6,403	17,749	20,460	22,441	25,263	32,763	40,263
Less: Accum. Deprn.	306	528	743	2,140	3,666	5,443	7,586	10,094
Net Fixed Assets	5,801	5,875	17,006	18,320	18,774	19,820	25,177	30,169
Capital WIP	3,492	9,545	339	1,723	2,068	1,037	1,037	1,037
Total Investments	1,181	318	24	24	1,893	4,390	4,390	4,390
Curr. Assets, Loans, and Adv.	7,402	10,167	11,910	12,019	12,868	19,057	22,839	26,892
Inventory	1,671	3,272	4,107	3,945	3,827	5,846	7,287	6,970
Account Receivables	3,603	4,118	5,750	6,127	7,563	11,291	13,269	13,233
Cash and Bank Balance	145	482	258	314	334	418	517	4,927
Cash	58	94	30	21	89	229	327	4,737
Bank Balance	87	388	228	293	245	189	189	189
Loans and Advances	1,982	2,296	1,795	1,633	1,144	1,503	1,766	1,762
Curr. Liability and Prov.	3,097	6,364	5,502	5,292	5,283	6,684	8,221	7,938
Account Payables	2,146	5,953	4,724	3,643	4,367	5,117	6,379	6,101
Other Current Liabilities	832	280	587	1,385	640	1,272	1,494	1,490
Provisions	119	132	191	264	276	296	347	346
Net Current Assets	4,305	3,803	6,408	6,727	7,585	12,373	14,618	18,954
Appl. of Funds	14,779	19,541	23,776	26,794	30,320	37,620	45,222	54,550



## Financials and valuations

### Ratios

Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
<b>Basic (INR)</b>								
EPS	3.4	5.8	12.7	44.8	56.9	78.2	73.4	85.9
EPS Growth (%)	-27%	72%	120%	252%	27%	37%	-6%	17%
Cash EPS	6.9	9.6	18.4	55.0	68.1	91.2	89.1	104.3
BV/Share	52.4	67.6	78.6	115.2	172.0	244.8	307.1	380.1
DPS	1.1	1.3	6.5	4.5	5.5	7.0	11.0	12.9
Payout (%)	19.6	27.0	61.6	12.1	9.7	9.0	15.0	15.0
<b>Valuation (x)</b>								
P/E	618.9	359.1	163.4	46.4	36.6	26.6	28.4	24.2
Cash P/E	302.2	215.6	112.8	37.8	30.6	22.8	23.4	19.9
P/BV	39.7	30.8	26.5	18.0	12.1	8.5	6.8	5.5
EV/Sales	20.0	17.5	11.0	6.9	6.6	4.2	3.6	3.5
EV/EBITDA	214.7	149.3	71.5	28.6	23.2	17.9	18.9	15.8
Dividend Yield (%)	0.1	0.1	0.3	0.2	0.3	0.3	0.5	0.6
FCF per share	-14.1	-32.1	-13.3	25.6	57.8	46.8	19.8	50.9
<b>Return Ratios (%)</b>								
RoE	7.7	9.7	17.4	46.2	39.6	37.5	26.6	25.0
RoCE	5.6	6.5	10.5	27.6	29.1	32.1	24.5	23.7
RoIC	6.5	10.7	13.5	28.0	32.1	36.7	27.4	27.3
<b>Working Capital Ratios</b>								
Fixed Asset Turnover (x)	2.5	2.9	2.4	2.4	2.4	3.5	3.6	2.9
Asset Turnover (x)	1.0	0.9	1.1	1.6	1.4	1.8	1.8	1.5
Inventory (Days)	42	71	56	34	32	31	33	32
Debtor (Days)	90	90	78	53	63	61	61	61
Creditor (Days)	54	130	64	31	37	27	29	28
<b>Leverage Ratio (x)</b>								
Current Ratio	2.4	1.6	2.2	2.3	2.4	2.9	2.8	3.4
Interest Coverage Ratio	2.6	3.2	4.0	7.7	14.7	41.9	63.5	106.4
Net Debt/Equity ratio	1.0	1.0	1.1	0.6	0.2	0.1	0.0	-0.1

### Consolidated - Cash Flow Statement

(INR m)

Y/E March	FY17	FY18	FY19	FY20	FY21	FY22	FY23E	FY24E
OP/(Loss) before Tax	1,347	1,109	2,680	8,064	10,417	14,345	13,371	15,657
Depreciation	480	528	778	1,397	1,526	1,777	2,143	2,508
Others	-403	481	829	1,262	852	295	204	143
Direct Taxes Paid	-162	-279	-561	-1,985	-2,365	-3,535	-3,365	-3,941
(Inc.)/Dec. in WC	-772	-9	-3,123	-1,092	-412	-4,643	-2,147	75
<b>CF from Operations</b>	<b>490</b>	<b>1,830</b>	<b>603</b>	<b>7,647</b>	<b>10,019</b>	<b>8,239</b>	<b>10,206</b>	<b>14,442</b>
(Inc.)/Dec. in FA	-2,412	-6,206	-2,410	-4,160	-2,140	-1,862	-7,500	-7,500
<b>Free Cash Flow</b>	<b>-1,922</b>	<b>-4,376</b>	<b>-1,808</b>	<b>3,487</b>	<b>7,879</b>	<b>6,377</b>	<b>2,706</b>	<b>6,942</b>
Change in Investments	-296	906	299	3	-1,854	-2,401	0	0
Others	-817	53	486	-122	33	22	0	0
<b>CF from Investments</b>	<b>-3,526</b>	<b>-5,247</b>	<b>-1,626</b>	<b>-4,279</b>	<b>-3,961</b>	<b>-4,241</b>	<b>-7,500</b>	<b>-7,500</b>
Issue of Shares	1,464	1,463	0	0	0	0	0	0
Inc./(Dec.) in Debt	2,160	2,626	2,033	-1,088	-5,246	-2,812	-902	-631
Interest Paid	-342	-450	-841	-1,134	-736	-320	-204	-143
Dividend Paid	-167	-188	-213	-1,060	-4	-750	-1,501	-1,757
Others	-69	2	-20	-94	-5	24	0	0
<b>CF from Fin. Activity</b>	<b>3,046</b>	<b>3,453</b>	<b>958</b>	<b>-3,376</b>	<b>-5,990</b>	<b>-3,858</b>	<b>-2,607</b>	<b>-2,532</b>
<b>Inc./Dec. in Cash</b>	<b>10</b>	<b>36</b>	<b>-64</b>	<b>-8</b>	<b>68</b>	<b>139</b>	<b>98</b>	<b>4,410</b>
Opening Balance	47	58	94	30	22	90	229	328
<b>Closing Balance</b>	<b>58</b>	<b>94</b>	<b>30</b>	<b>22</b>	<b>90</b>	<b>229</b>	<b>328</b>	<b>4,738</b>

## NOTES

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.

#### Disclosures

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](http://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://online.reports.motilaloswal.com/Dormant/documents/List%20of%20Associate%20companies.pdf>. 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 Enquiry 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](http://www.nseindia.com), [www.bseindia.com](http://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.

#### For U.S.

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 Advisers 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

- 1 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.
- 2 MOFSL, Research Analyst and/or his relatives do not have actual/beneficial ownership of 1% or more securities in the subject company
- 3 MOFSL, Research Analyst and/or his relatives have not received compensation/other benefits from the subject company in the past 12 months
- 4 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
- 5 Research Analyst has not served as director/officer/employee in the subject company
- 6 MOFSL has not acted as a manager or co-manager of public offering of securities of the subject company in past 12 months
- 7 MOFSL has not received compensation for investment banking/ merchant banking/brokerage services from the subject company in the past 12 months
- 8 MOFSL has not received compensation for other than investment banking/merchant banking/brokerage services from the subject company in the past 12 months
- 9 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

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, nor 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 errors and delays.

Registered Office Address: Motilal Oswal Tower, Rahimtullah Sayani Road, Opposite Parel ST Depot, Prabhadevi, Mumbai-400025; Tel No.: 022-3980 4263; [www.motilaloswal.com](http://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](mailto: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](mailto: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](mailto:grievances@motilaloswal.com), for DP to [dpgrievances@motilaloswal.com](mailto:dpgrievances@motilaloswal.com).