Adani Ports and Special Economic Zone

DOLAT ANALYSIS & RESEARCH THEMES IN-DEPTH• PRECISE• ACTIONABLE

Buy

- Q4 results were an operational miss. Revenue declined by ~5% YoY to ₹ 29.2bn. Lower SEZ income affecting revenues and margins. Adj EBITDA was at ₹ 16.4Bn, down 15% YoY. Margins came lower at 56.3% vs 62.7% YoY. FY20 margins at 63.7% vs 64.7% YoY. APAT stood at ₹ 13.4bn, up 14% YoY. PAT was impacted by a ₹ 10bn forex on the P&L.
- The management guidance: (1) Evaluating the situation, No volume guidance for FY21; may give one when there is better visibility post lockdown (2) SEZ income to be ₹ 8-10Bn; (3) Ports margin to range between 68-70% (4) Snowman deal viability under review; (5) Capex guidance for FY21 reduced to ₹ 20Bn vs ₹ 40Bn earlier; (6) net debt to equity of 2.9x is within limits while it has a cover for its entire debt servicing of FY21.(7) Promoter pledge to be 0% by next 12-18 months
- With April volumes down 25% from normal, we factor in a gradual recovery leading to a 6% volume decline in FY21. This leads to an EPS cut of 19%/11% in FY21/22 vs earlier estimates. Relatively less impacted under COVID, with a 60% sticky cargo as base volume, new ports in its fold, improving utilisation, better volumes on DFC connect to Mundra as some of the triggers for the stock. Given the sharp price correction, we move rating to Buy with a DCF based TP of ₹ 360. Key risk remains economic slowdown, which impact volumes.

Key Highlights

- Acquisitions update: KPCL and Dighi are pending approval from authorities and are now expected to be complete by Q3FY21. Myanmar - To start commercial operation by Jan 2021. B2B acquisition completed in Q1 FY20. Snowman deal under review.
- Portwise Volumes at Mundra fell 2% YoY, Dahej: -28% YoY, Hazira: +17%, Dharma: 44%, Kattupalli: 19%. FY20 volumes at 223mnT, +7% YoY led by 8% YoY growth in container segment. Cargo volumes growth was 7% YoY (+3% QoQ) with 4Q volumes at 57.82MnT.
- Outlook: Expecting slow pick up in cargo volume in Q2FY21, and a V-shape recovery possible in H2F21 post complete lifting of lockdown. Availability of manpower to be a challenge this will impact productivity in the short term. Rail traffic from ports moving efficiently, enabling the Company to convert road to rail traffic.

Q4FY20 Result (₹ Mn)

Particulars	Q4FY20	Q4FY19	YoY (%)	Q3FY20	QoQ (%)
Revenue	29,212	30,825	(5.2)	33,363	(12.4)
Total Expense	12,772	10,413	22.7	11,945	6.9
EBITDA	16,440	20,412	(19.5)	21,418	(23.2)
Depreciation	4,496	3,561	26.3	4,297	4.6
EBIT	11,944	16,852	(29.1)	17,121	(30.2)
Other Income	4,390	4,102	7.0	4,942	(11.2)
Interest	4,629	4,078	13.5	4,671	(0.9)
EBT	10,758	17,228	(37.6)	17,395	(38.2)
Tax	(835)	2,692	(131.0)	3,824	(121.8)
RPAT	13,386	11,763	13.8	13,522	(1.0)
APAT	13,386	10,672	25.4	13,522	(1.0)
			(bps)		(bps)
Gross Margin (%)	94.8	94.7	10	96.2	(132)
EBITDA Margin (%)	56.3	66.2	(994)	64.2	(792)
NPM (%)	45.8	38.2	766	40.5	530
Tax Rate (%)	(7.8)	15.6	(2339)	22.0	(2975)
EBIT Margin (%)	40.9	54.7	(1378)	51.3	(1043)

СМР	₹ 270
Target / Upside	₹360/33%
BSE Sensex	31,737
NSE Nifty	9,271
Scrip Details	
Equity / FV	₹4,064mn /₹2
Market Cap	₹ 549bn
	US\$ 7bn
52-week High/Low	₹ 431/₹ 203
Avg. Volume (no)	5,001,230
NSE Symbol	ADANIPORTS
Bloomberg Code	ADSEZ IN
Shareholding Patte	rn Mar'20(%)
Promoters	62.3
MF/Banks/FIs	12.0
FIIs	22.3
Public / Others	3.4

Valuation (x)

	FY20A	FY21E	FY22E
P/E	10.3	12.5	10.0
EV/EBITDA	10.2	9.7	8.2
ROE (%)	15.0	16.0	17.3
RoACE (%)	13.5	11.0	12.0

Estimates (₹ mn)

	FY20A	FY21E	FY22E
Revenue	118,731	119,810	135,690
EBITDA	75,654	77,876	90,234
PAT	53,106	44,081	54,688
EPS (₹)	26.1	21.7	26.9

VP Research: Vinod Chari Tel: +91 22 40969776 E-mail: vinodc@dolatcapital.com

Associate: Nishant Shah Tel: +9122 409697758 E-mail: nishant.shah@dolatcapital.com





Exhibit 1: Actual V/s DART estimates

(₹ mn)	Actual	Estimated	% Variance	Consensus	% Variance	Remarks
Net sales	29,212	32,960	(11.4)	32,646	(10.5)	Lower than expected SEZ income and weak realization
EBITDA	16,440	21,107	(22.1)	18,952	(13.3)	Lower SEZ income and higher share of logistics business which has lower margin
EBITDA margin (%)	56.3	64.0	(776bps)	58.1	(177bps)	
Adj net income	13,386	13,443	(0.4)	10,943	22.3	Adj to FX
FDEPS (₹)	6.5	6.5	(0.4)	5.3	22.3	

Source: Company, DART

With April volumes down 25% from normal, we factor in a gradual recovery leading to a 6% volume decline in FY21. This leads to an EPS cut of 19%/11% in FY21/22 vs earlier estimates. Relatively less impacted under COVID, with a 60% sticky cargo as base volume, new ports in its fold, improving utilisation, better volumes on DFC connect to Mundra as some of the triggers for the stock. Given the sharp price correction, we move rating to Buy with a DCF based TP of ₹ 360 (DCF: Cost of Equity: 9.75%, terminal growth:5.5%, Beta: 0.65, Risk free: 6.5%, Rf: 5%,WACC: 8.6%). Key risk remains overall economic slowdown, which impact volumes.

Exhibit 2: Change in estimates

Key parameters		FY21E	FY22E				
	Old	New	% Chg	Old	New	% Chg	
Revenue (₹ mn)	1,32,475	1,19,810	(9.6)	1,45,584	1,35,690	(6.8)	
EBITDA (₹ mn)	86,241	77,876	(9.7)	95,212	90,234	(5.2)	
EBITDA margin (%)	65.1	65.0	(10bps)	65.4	66.5	110bps	
Net profit (₹ mn)	55,261	44,752	(19.0)	62,140	55,073	(11.4)	
EPS (₹)	26.7	21.6	(19.0)	30.0	26.6	(11.4)	

Source: Company, DART

We have not factored in the financials of Krishnapatnam Port and Snowman Logistics in our numbers as we await completion of these acquisitions.

Exhibit 3: SOTP

EXHIBIT 5. 3017				
Ports	Holding (%)	Method	Value INR mn	Value per share
Mundra Port & SEZ	100	DCF	2,49,288	123
Adani Logistics	100	BV	6,500	3
Hazira Port	100	DCF	1,65,836	82
Dhamra Port	100	DCF	1,74,748	86
Dahej Port	74	DCF	87,837	43
Vizag Port	100	DCF	2,684	1
Mormugao Port	74	DCF	13,333	7
Kandla Port	74	DCF	6,872	3
Ennore Port	74	DCF	7,151	4
Kattupalli Port	100	NAV	14,581	7
Total			7,28,830	360

Source: Company, DART



May 06, 2020 ²



Ports wise

- Mundra: (1) 81% of sticky cargo at Mundra (2) ROCE for Mundra is lower on account of capitalization of T2 terminal during the year. (3) Revenue and EBITDA is lower on account of lower SEZ income.
- **Dhamra Port:** (1) ROCE for Dhamra which was at 9% in FY19 has increased by 300 bps to 12%. (2) For Q4FY20, Revenue de-grew by 15% YoY while EBITDA declined by 30% YoY. EBITDA margins too declined to 61.7% due to lower volumes and higher cost. Margins too improved due to higher realization cargo like containers and liquids. (3) FY20, the port reported 44% volume growth driving revenue and EBITDA growth. Margins too improved due to operating leverage. (4) Increase in Rake availability improved the volumes.
- Kattupalli Port: (1) FY20 Revenue and EBITDA was up 26%/31% YoY respectively.
 EBITDA margins improved due to change in cargo mix and operational efficiency.
 (2) Started handling liquids and other bulk cargo
- Hazira and Dahej: (1) Dahej: Margins declined as fixed cost remained same while volumes decreased. Hazira margins improved by 200bps to 75% YoY. The margin is on account of growth in higher realization cargo like containers and liquids.
- Adani Logistics: FY20, Revenue grew by 65% on the back of 115% rail volumes growth. This sharp jump was on account of an increase in rakes, new routes, additional rail capacity and acquisition of B2B logistics.. FY20 volumes by rail stood at 325,067 teus. KLL has now 60 rakes of which 43 are container rakes. It is also developing logistics park at Nagpur and warehouses at Mundra, Kattupalli and Taloja operational in FY21. Current warehouse capacity stands at 4lac Sqft.
- Adani SEZ: Registered ₹ 410mn in Q4 towards land lease payment. SEZ Revenue has reduced due to timing difference in contract execution.

Acquisitions

- Krishnapatnam: Expects acquisition to get complete by 3QFY21. Cash outgo will be done at that time. Debt/EBITDA can shoot to sub 3x
- Dighi Port: Expects to get complete by 3QFY21.
- Snowman Logistics: will need to revisit the deal, cold chain segment will be viable option post covid. May scrape the deal or renegotiate. Will come to know by Q3FY21.
- Myanmar Port: To start commercial operation by Jan 2021.
- Vizhinjam Port: likely to get commission by CY22

Financials

- Depreciation: Increased due to capitalisation of assets at Mundra, Dhamra and Katupalli
- Debt Position: FY20 Gross debt at ₹ 295bn (vs. ₹ 272bn YoY), Cash Balance at INR73bn implying Net Debt at ₹ 221bn (vs. ₹ 207bn YoY). Net Debt to EBITDA maintained at 2.9x
- Capex: Company incurred Capex of INR36.2bn in FY20. In FY21, Company targets reduction in its operating costs and Capex will be curtailed to INR20bn from original plan of INR40bn; discretionary Capex on Hold. Focus will be on conserving cash, generating higher free cash flow and increasing the ROCE
- Buyback of 39.2mn. shares at ₹ 500/share per share amounting ₹19.60Bn completed during the year.





Improvement in Cash Flow position: Cash flow from Operations at ₹ 74Bn vs ₹ 60Bn YoY. CF from Investing activities stood at ₹ -7.5Bn vs ₹ -44Bn. Free cash flow from operations after adjusting for working capital changes and investing activities is at ₹66.5Bn. The company is realigning its assets to conserve cash and strategies to improve cost.

Other Key highlights:

- Rail: Road mix and evacuation: Bottleneck remains in evacuation. Once lockdown is lifted, can get a better sense of cargo volumes for the year. Evacuation at ICD also a challenge due to storage space. Rail has rakes availability which boost in the smooth movement of cargo. Road to rail transition is also attributable due to removal of surcharge on containers. The company has witnessed 5-6% jump in rail cargo movement at Mundra port and expects growth in rail movement cargo to continue.
- DFCC: DFCC to Mundra was expected to come by June which may get pushed by 2-3 months. The company is negotiation with Indian rail for DFCC tariff whether it can be brought down
- Southern and Eastern ports grew by 40%/44% respectively resulting as east-west port parity

Exhibit 4: Ports/segment Revenue

Particulars (₹ mn)	Q4FY19	Q1FY20	Q2FY20	Q3FY20	Q4FY20	YoY (%)	QoQ(%)	FY20	FY19	YoY (%)
Mundra	14,580	15,943	12,043	10,840	11,830	(18.9)	9.1	34,713	37,425	(7.2)
Dhamra	2,110	4,390	3,140	3,670	3,740	77.3	1.9	10,550	6,670	58.2
Hazira	2,780	2,790	2,990	3,320	3,410	22.7	2.7	9,720	8,260	17.7
Dahej	1,220	1,030	840	820	820	(32.8)	0.0	2,480	3,170	(21.8)
Kattupalli	500	550	550	730	670	34.0	(8.2)	1,950	1,560	25.0
Adani Logistics Ltd	1,280	1,480	1,810	2,560	2,400	87.5	(6.3)	6,770	4,350	55.6
Harbor revenue	3,220	3,070	3,342	3,870	3,510	9.0	(9.3)	10,722	9,563	12.1

Source: Company, DART

Exhibit 5: Ports/segment EBITDA

Particulars (₹ mn)	Q4FY19	Q1FY20	Q2FY20	Q3FY20	Q4FY20	YoY (%)	QoQ(%)	FY20	FY19	YoY (%)
Mundra	10,535	11,086	7,948	7,210	8,130	(22.8)	12.8	23,288	26,755	(13.0)
Dhamra	890	3,290	1,920	2,370	2,380	167.4	0.4	6,670	3,260	104.6
Hazira	1,940	2,020	2,270	2,590	2,490	28.4	(3.9)	7,350	6,020	22.1
Dahej	810	560	530	490	460	(43.2)	(6.1)	1,480	2,140	(30.8)
Kattupalli	310	310	330	470	370	19.4	(21.3)	1,170	910	28.6
Adani Logistics Ltd	180	260	540	720	580	222.2	(19.4)	1,840	650	183.1
Harbor revenue	2,790	2,680	3,062	3,480	3,080	10.4	(11.5)	9,622	8,588	12.0

Source: Company, DART

Exhibit 6: Ports/segment EBITDA Margin

	_		_						
Particulars (%)	Q4FY19	Q1FY20	Q2FY20	Q3FY20	Q4FY20	YoY (%) QoQ(%	FY20	FY19	YoY (%)
Mundra	72.3	69.5	66.0	66.5	68.7	(353bps) 221bps	67.1	71.5	(440bps)
Dhamra	42.2	74.9	61.1	64.6	63.6	2146bps (94bps	63.2	48.9	1435bps
Hazira	69.8	72.4	75.9	78.0	73.0	324bps (499bps	75.6	72.9	274bps
Dahej	66.4	54.4	63.1	59.8	56.1	(1030bps) (366bps	59.7	67.5	(783bps)
Kattupalli	62.0	56.4	60.0	64.4	55.2	(678bps) (916bps	60.0	58.3	167bps
Adani Logistics Ltd	14.1	17.6	29.8	28.1	24.2	1010bps (396bps) 27.2	14.9	1224bps
Harbor revenue	86.6	87.3	91.6	89.9	87.7	110bps (217bps	89.7	89.8	(7bps)

Source: Company, DART



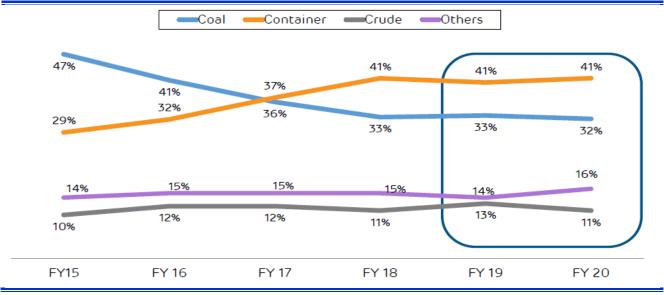
May 06, 2020 ⁴



Cargo-wise

- Q4FY20 cargo volumes grew by 7% YoY versus 4% YoY for All India Ports (223MMT). Container volumes for APSEZ grew by 8% YoY while All India Container remained flat (64MMT). Adani ports have reported the CAGR of 17% in container segment over FY15-20 vs 8% by All India Ports and overall throughput of 9% by Adani ports vs 5% by All India Ports during similar period.
- Total cargo handled in Q4FY20 was 57.82 MMT (7% YoY) and 223MT in FY20.
 The cargo composition for FY20 was as follows: Coal 32%, Container 41% Crude plus other Cargo 27%.
- FY20 highlights: (1) Achieved 100 MMT of dry cargo handling (2) Share of Eastern ports increases from 15% to 20%. (3) Logistics Rail volume registered a growth of 115%. (4) Mundra LNG and LPG commenced operation during the year and handled ~300,000 MT and ~400,000 MT respectively (5) Crude volume were lower due to less import by refineries (IOCL and HPCL).
- Mundra: The company handled 8.31 MMT coal (-16% YoY). Container volumes grew 7% YoY to 18.29 (MMT) and ~5.8% YoY for FY20. The growth was led by 18% YoY growth at CT1. Other cargo/crude at Mundra reported the degrowth of -9%/-3% YoY. Overall Mundra handled 35.26MMT, down 2% YoY in Q4 while for FY20, cargoes grew by 1.3% YoY to 139MMT.
- Kattupalli cargo volumes (2.85 MMT) grew by 22% YoY driven by 16% coal and sharp uptake in other cargoes.
- Hazira cargo volumes (5.5 MMT) grew by 17% YoY driven by 9% container, 28% coal, -5% Liquid and 54% others. Liquid volume grew by 18% in FY20. EBITDA margins for Q4 remained stable at 73%.
- Dahej cargo volumes (1.56 MMT) declined by 28% YoY driven by 19% coal and -44% in other cargo. FY20 Cargo volume decreased by 30%, due to lower trading coal handled.
- Dhamra cargo volumes (8.26 MMT) grew by 44% YoY driven by 17% coal and and 85% others. Rake availability in Q4FY20 improved to 20 rakes per day from 15 rakes per day. FY20, Cargo volume was up 10%. Segments like coal 6%, container 8%, liquid cargo 17% and other cargo 21% reported the growth.

Exhibit 7: Cargo Composition



Source: Company, DART





Profit	and	Loss	Account	
--------	-----	------	---------	--

(₹Mn)	FY19A	FY20A	FY21E	FY22E
Revenue	109,254	118,731	119,810	135,690
Total Expense	38,580	43,077	41,933	45,456
COGS	27,608	30,973	30,551	33,244
Employees Cost	5,298	5,465	5,391	6,106
Other expenses	5,674	6,639	5,990	6,106
EBIDTA	70,675	75,654	77,876	90,234
Depreciation	13,735	16,803	18,737	19,315
EBIT	56,940	58,851	59,139	70,919
Interest	9,265	19,506	19,324	18,331
Other Income	13,623	18,614	18,614	19,916
Exc. / E.O. items	(5,018)	(15,475)	0	0
EBT	56,280	42,483	58,428	72,504
Tax	10,815	4,594	14,607	18,126
RPAT	39,902	37,631	44,081	54,688
Minority Interest	(545)	(258)	260	310
Profit/Loss share of associates	0	0	0	0
APAT	44,920	53,106	44,081	54,688

Balance Sheet

12 4,064 99 2,196	4,064	4,064 2,196
4,064	4,064	4,064
99 2,196		
·····		
40 252,171	L 290,772	334,638
32 256,235	294,835	338,701
79 294,627	7 291,879	276,879
50 2,870	2,870	2,870
21 FFF 020	591,780	620,646
(.60 2,870	60 2,870 2,870

Applications of Funds

Total Assets	521,521	555,928	591,780	620,646
Net Current Assets	187,649	184,840	209,429	227,610
sub tota	al			
Other Current Liabilities	1,032	1,145	1,098	1,244
Payables	42,722	64,964	54,088	57,933
Less: Current Liabilities & Provisions	43,754	66,109	55,186	59,177
Other Current Assets	0	0	0	0
Loans and Advances	139,344	149,036	145,500	164,786
Cash and Bank Balances	59,673	73,139	84,977	83,338
Receivables	24,319	25,891	27,901	31,599
Inventories	8,067	2,883	6,237	7,063
Current Assets, Loans & Advances	231,403	250,948	264,614	286,787
Investments	7,823	11,780	21,780	31,780
CWIP	44,835	32,163	32,163	32,163
Net Block	270,026	326,101	331,375	347,745
Applications of Funds				

E – Estimates



May 06, 2020



Important Ratios				
Particulars	FY19A	FY20A	FY21E	FY22E
(A) Margins (%)				
Gross Profit Margin	74.7	73.9	74.5	75.5
EBIDTA Margin	64.7	63.7	65.0	66.5
EBIT Margin	52.1	49.6	49.4	52.3
Tax rate	19.2	10.8	25.0	25.0
Net Profit Margin	36.5	31.7	36.8	40.3
(B) As Percentage of Net Sales (%)				
COGS	25.3	26.1	25.5	24.5
Employee	4.8	4.6	4.5	4.5
Other	5.2	5.6	5.0	4.5
(C) Measure of Financial Status				
Gross Debt / Equity	1.1	1.1	1.0	0.8
Interest Coverage	6.1	3.0	3.1	3.9
Inventory days	27	9	19	19
Debtors days	81	80	85	85
Average Cost of Debt	3.8	6.9	6.6	6.4
Payable days	143	200	165	156
Working Capital days	627	568	638	612
FA T/O	0.4	0.4	0.4	0.4
(D) Measures of Investment				
AEPS (₹)	22.1	26.1	21.7	26.9
CEPS (₹)	28.9	34.4	30.9	36.4
DPS (₹)	1.7	3.2	4.1	4.1
Dividend Payout (%)	7.9	12.2	18.9	15.2
BVPS (₹)	120.8	126.1	145.1	166.7
RoANW (%)	17.5	15.0	16.0	17.3
RoACE (%)	12.6	13.5	11.0	12.0
RoAIC (%)	13.2	12.5	12.0	13.6
(E) Valuation Ratios				
CMP (₹)	270	270	270	270
P/E	12.2	10.3	12.5	10.0
Mcap (₹ Mn)	548,877	548,877	548,877	548,877
MCap/ Sales	5.0	4.6	4.6	4.0
EV	761,083	770,366	755,780	742,418
EV/Sales	7.0	6.5	6.3	5.5
EV/EBITDA	10.8	10.2	9.7	8.2
P/BV	2.2	2.1	1.9	1.6
Dividend Yield (%)	0.6	1.2	1.5	1.5
(F) Growth Rate (%)				
Revenue	(3.5)	8.7	0.9	13.3
EBITDA	(1.1)	7.0	2.9	15.9
EBIT	(4.4)	3.4	0.5	19.9
PBT	(9.0)	(24.5)	37.5	24.1
APAT	22.3	18.2	(17.0)	24.1
EPS	22.3	18.2	(17.0)	24.1
Cook Flour				
Cash Flow	FV4.0.4	EV204	EV24E	EVANE
(₹ Mn)	FY19A	FY20A	FY21E	FY22E
CFO	60,294	74,018	50,518	52,288
CFI	(53,313)	(7,505)	(11,387)	(10,084)
CFF	23,133	(53,165)	(27,294)	(43,843)
FCFF	30,889	24,139	30,518	32,288
Opening Cash	29,675	59,790	73,139	84,977
Closing Cash	59,789	73,138	84,976	83,338
E – Estimates				



May 06, 2020 ⁷



DART RATING MATRIX

Total Return Expectation (12 Months)

Buy	> 20%
Accumulate	10 to 20%
Reduce	0 to 10%
Sell	< 0%

Rating and Target Price History



Month	Rating	TP (₹)	Price (₹)
Feb-19	Accumulate	386	332
Nov-19	Accumulate	420	371
Feb-20	Accumulate	420	373
Mar-20	Accumulate	390	251

Price as on recommendation date

DART Team

Purvag Shah	Managing Director	purvag@dolatcapital.com	+9122 4096 9747
Amit Khurana, CFA	Head of Equities	amit@dolatcapital.com	+9122 4096 9745

CONTACT DETAILS

Equity Sales	Designation	E-mail	Direct Lines
Dinesh Bajaj	VP - Equity Sales	dineshb@dolatcapital.com	+9122 4096 9709
Kartik Sadagopan	VP - Equity Sales	kartiks@dolatcapital.com	+9122 4096 9762
Kapil Yadav	VP - Equity Sales	kapil@dolatcapital.com	+9122 4096 9735
Yomika Agarwal	VP - Equity Sales	yomika@dolatcapital.com	+9122 4096 9772
Ashwani Kandoi	AVP - Equity Sales	ashwanik@dolatcapital.com	+9122 4096 9725
Lekha Nahar	Manager - Equity Sales	lekhan@dolatcapital.com	+9122 4096 9740
Equity Trading	Designation	E-mail	
Equity Trading P. Sridhar	Designation SVP and Head of Sales Trading	E-mail sridhar@dolatcapital.com	+9122 4096 9728
			+9122 4096 9728 +9122 4096 9707
P. Sridhar	SVP and Head of Sales Trading	sridhar@dolatcapital.com	
P. Sridhar Chandrakant Ware	SVP and Head of Sales Trading VP - Sales Trading	sridhar@dolatcapital.com chandrakant@dolatcapital.com	+9122 4096 9707
P. Sridhar Chandrakant Ware Shirish Thakkar	SVP and Head of Sales Trading VP - Sales Trading VP - Head Domestic Derivatives Sales Trading	sridhar@dolatcapital.com chandrakant@dolatcapital.com shirisht@dolatcapital.com	+9122 4096 9707 +9122 4096 9702 +9122 4096 9715



Analyst(s) Certification

The research analyst(s), with respect to each issuer and its securities covered by them in this research report, certify that: All of the views expressed in this research report accurately reflect his or her or their personal views about all of the issuers and their securities; and No part of his or her or their compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed in this research report.

I. Analyst(s) and Associate (S) holding in the Stock(s): (Nil)

II. Disclaimer

This research report has been prepared by Dolat Capital Market Private Limited. to provide information about the company(ies) and sector(s), if any, covered in the report and may be distributed by it and/or its affiliated company(ies) solely for the purpose of information of the select recipient of this report. This report and/or any part thereof, may not be duplicated in any form and/or reproduced or redistributed without the prior written consent of Dolat Capital Market Private Limited. This report has been prepared independent of the companies covered herein. Dolat Capital Market Private Limited. and its affiliated companies are part of a multi-service, integrated investment banking, brokerage and financing group. Dolat Capital Market Private Limited. and/or its affiliated company(ies) might have provided or may provide services in respect of managing offerings of securities, corporate finance, investment banking, mergers & acquisitions, financing or any other advisory services to the company(ies) covered herein. Dolat Capital Market Private Limited. and/or its affiliated company(ies) might have received or may receive compensation from the company(ies) mentioned in this report for rendering any of the above services. Research analysts and sales persons of Dolat Capital Market Private Limited. may provide important inputs to its affiliated company(ies) associated with it. While reasonable care has been taken in the preparation of this report, it does not purport to be a complete description of the securities, markets or developments referred to herein, and Dolat Capital Market Private Limited. does not warrant its accuracy or completeness. Dolat Capital Market Private Limited. may not be in any way responsible for any loss or damage that may arise to any person from any inadvertent error in the information contained in this report. This report is provided for information only and is not an investment advice and must not alone be taken as the basis for an investment decision. The investment discussed or views expressed herein may not be suitable for all investors. The user assumes the entire risk of any use made of this information. The information contained herein may be changed without notice and Dolat Capital Market Private Limited. reserves the right to make modifications and alterations to this statement as they may deem fit from time to time. Dolat Capital Market Private Limited. and its affiliated company(ies), their directors and employees may; (a) from time to time, have a long or short position in, and buy or sell the securities of the company(ies) mentioned herein or (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the company(ies) 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. This report is neither an offer nor solicitation of an offer to buy and/or sell any securities mentioned herein and/or not an official confirmation of any transaction. This report is not directed or intended for distribution to, or use by any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, where such distribution, publication, availability or use would be contrary to law, regulation or which would subject Dolat Capital Market Private Limited. and/or its affiliated company(ies) to any registration or licensing requirement within such jurisdiction. The securities described herein may or may not be eligible for sale in all jurisdictions or to a certain category of investors. Persons in whose possession this report may come, are required to inform themselves of and to observe such restrictions.

For U.S. Entity/ persons only: This research report is a product of Dolat Capital Market Private Limited., 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 Dolat Capital Market Private Limited. 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 or entity.

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, Dolat Capital Market Private Limited. has entered into an agreement with a U.S. registered broker-dealer Ltd Marco Polo Securities Inc. ("Marco Polo"). Transactions in securities discussed in this research report should be effected through Marco Polo or another U.S. registered broker dealer/Entity as informed by Dolat Capital Market Private Limited. from time to time.

Dolat Capital Market Private Limited.

Corporate Identity Number: U65990DD1993PTC009797

Member: BSE Limited and National Stock Exchange of India Limited.

SEBI Registration No: BSE - INB010710052 & INF010710052, NSE - INB230710031& INF230710031, Research: INH000000685

Registered office: Office No. 141, Centre Point, Somnath, Daman – 396 210, Daman & Diu

Board: +9122 40969700 | Fax: +9122 22651278 | Email: research@dolatcapital.com | www.dolatresearch.com