

Riding the golden wave of GE, retain Hold

We continue to remain positive on prospects of Graphite India (GIL) led by our view of electrode industry remaining in an upcycle for next few years as postulated in our recent [sector report](#). We continue to expect extremely strong earnings trajectory for GIL in next few years with peak earnings in FY19E and moderation kicking in from FY20E/21E. GIL remains the best bet to play the electrode upcycle with healthy balance sheet, strong adj. FCF generation, high dividend payout and strong management pedigree. GIL reported another record earnings performance in Q1 which was well above expectations. We continue to value the stock on our conservative 5 year cash flow methodology to arrive at a revised fair value of Rs1165. Maintain Hold.

- **Capacity utilisation remains high, realisation continues to race ahead:** Capacity utilisation for Q1 stood at 98%/88% at standalone/consolidated level and management guided towards improvement in utilisations at German operations going forward. Realisations jumped to ~US\$12800/t at standalone level (vs US\$8644/t QoQ) and further improvements in coming quarters could still be expected as pricing in new contracts remain favorable.
- **EBITDA/t expands to another record level:** EBITDA rose 94% QoQ to Rs13bn led by higher realisations & best ever gross profit/t. EBITDA margins stood at a robust 73.2% and EBITDA/t stood at ~US\$9900/t (based on production derived from capacity utilisations) led by high gross margins supported by lag impact of needle coke price hikes. GIL reported quarterly consolidated financials for the first time and Cons. EBITDA/t stood at US\$9926/t which was best ever.
- **Outlook remains strong, sensitivity to spreads to remain high:** Though we have continued to expect the strongest upcycle of last few decades in store for electrode industry but the intensity of the same has exceeded our expectations till now and we now expect consolidated EBITDA/t of US\$8126/\$6182 in FY19E/20E for GIL. Despite a large upward revision in our estimates, we continue to build lower EBITDA/t on full year basis v/s the current run-rate. We see earnings remaining highly sensitive to volumes and spreads and every US\$100/t additional spreads results in ~2.5% increase in EBITDA/EPs/TP while every 5% increase in volumes lead to ~4% increase in EBITDA/EPs/TP. We expect GIL's cash kitty to swell to ~Rs38bn by FY20E despite factoring in strong dividend (25% of PAT every year) and increased absolute working capital requirements. We believe that prudent cash management would be key and we would keep a close eye on the capital allocation decisions from hereon.
- **Valuation and risks:** The stock has seen a relentless up move and is up ~700% since our [IC](#) dated 20 June 2017. We continue to value GIL on our conservative AOCF/EV yield methodology using five year average adj. cash flows (FY16-20E) to arrive at our revised TP of Rs1165. Maintain Hold. Key downside risk is margin pressure due to raw material volatility while upside risk is continuation of high spreads into FY20E/21E as that of FY19E.

Y/E Mar - Std (Rs mn)	Q1FY19	Q1FY18	YoY%	Q4FY18	QoQ%	Q1FY19E	Chg %
Net sales	17,770	3,510	406.2	12,122	46.6	16,836	5.5
Total RM consumed	2,340	1,240	88.8	2,877	(18.7)	3,570	(34.4)
Employee costs	470	411	14.2	450	4.4	475	(1.1)
Other expenses	680	451	50.8	748	(9.1)	684	(0.6)
EBITDA	13,000	355	3560.9	6,686	94.4	10,858	19.7
EBITDA margin (%)	73.2	10.1		55.2		64.5	
Depreciation	110	120	(8.6)	111	(1.0)	120	(8.3)
Other income	280	211	32.5	370	(24.4)	300	(6.7)
PBT	13,160	436	2914.9	6,925	90.0	11,018	19.4
Tax	4,580	142		2,388	91.8	3,746	22.3
PAT	8580	294	2813.4	4,537	89.1	7,272	18.0

Source: Company, Centrum Research

Y/E Mar (Rs mn)	Revenue	YoY (%)	EBITDA	EBITDA (%)	Adj. PAT	YoY (%)	EPS (Rs)	RoE (%)	RoCE (%)	PE (x)	EV/EBITDA(x)
FY16	15,323	(10.4)	1,346	8.8	828	31.1	4.2	4.6	4.1	18.0	9.6
FY17	14,678	(4.2)	396	2.7	705	(14.9)	3.6	3.9	3.6	22.8	29.8
FY18	32,660	122.5	14,442	44.2	10,320	1,364.7	52.8	45.0	33.5	7.9	4.9
FY19E	80,404	146.2	47,749	59.4	31,802	208.2	162.8	82.4	60.1	6.5	4.0
FY20E	66,478	(17.3)	35,042	52.7	24,086	(24.3)	126.4	41.2	75.6	8.6	4.8

Source: Company, Centrum Research Estimates

In the interest of timeliness, this document is not edited

Centrum Equity Research is available on Bloomberg, Thomson Reuters and FactSet

Target Price	Rs1,165	Key Data	
CMP*	Rs1,063	Bloomberg Code	GRIL IN
Upside	9.6%	Curr Shares O/S (mn)	195.4
Previous Target	825	Diluted Shares O/S(mn)	195.4
Previous Rating	Hold	Mkt Cap (Rsbn/USDbn)	207.7/3
Price Performance (%)*		52 Wk H / L (Rs)	1094.8/222
	1M 6M 1Yr	5 Year H / L (Rs)	1094.8/57
GRIL IN	12.9 72.0 385.1	Daily Vol. (3M NSE Avg.)	1890413
NIFTY	5.7 8.5 13.1		

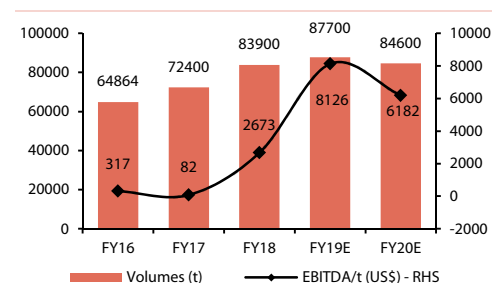
*as on 6 August 2017; Source: Bloomberg, Centrum Research

Shareholding pattern (%)*

	Jun-18	Mar-18	Dec-17	Sep-17
Promoter	65.2	65.2	65.2	65.2
FII's	6.0	4.6	5.9	4.7
Dom. Inst.	8.7	8.5	8.8	9.1
Public & Others	20.1	21.7	20.1	20.9

Source: BSE, *as on 6 August 2017

GIL Volumes and EBITDA/t (Cons)



Source: Company, Centrum Research Estimates

Earnings Revision

Particulars (Rs mn)	FY19E			FY20E		
	New	Old	Chg (%)	New	Old	Chg (%)
Sales	80,404	68,947	16.6	66,478	51,045	30.2
EBITDA	47,749	31,867	49.8	35,042	18,432	90.1
EBITDA Margin (%)	59.4	46.2		52.7	36.1	
PAT-adj.	31,802	21,615	47.1	24,086	13,309	81.0

Source: Centrum Research Estimates

Centrum vs. Bloomberg Consensus*

Particulars (Rs mn)	FY19E			FY20E		
	Centrum	BBG	Var (%)	Centrum	BBG	Var (%)
Net Sales	80,404	71,403	12.6	66,478	69,833	(4.8)
EBITDA	47,749	37,368	27.8	35,042	34,201	2.5
PAT	31,802	25,692	23.8	24,086	24,060	0.1

Bloomberg Consensus*				Centrum Target Price (Rs)	Variance (%)
BUY	SELL	HOLD	Target Price (Rs)		
5	1	1	1,063	1,165	9.6

*as on 6 August 2018, Source: Bloomberg, Centrum Research Estimates

Abhisar Jain, CFA, abhisar.jain@centrum.co.in, 91 22 4215 9928

Sahil Sanghvi, sahil.sanghvi@centrum.co.in, 91 22 4215 9203

Earnings revised higher to factor in higher spreads

We revise our earnings estimates higher significantly as we factor in higher realisations in line with the current trend and build in higher spreads as continuation of favorable demand-supply dynamics and sustenance of global steel prices have led to sustenance of higher realisations and spreads in the GE business. We expect strong expansion in GIL's gross profit/t in FY19E/20E led by better pricing aided by favorable demand-supply balance. We expect strongest upcycle of last few decades in store for electrode industry and expect consolidated EBITDA/t of GIL to expand materially to US\$8126/\$6182 in FY19E/20E. We expect EBITDA of Rs47.7bn/Rs35bn and PAT of Rs31.8bn/Rs24.1bn in FY19E/20E.

Exhibit 1: Earnings Revision

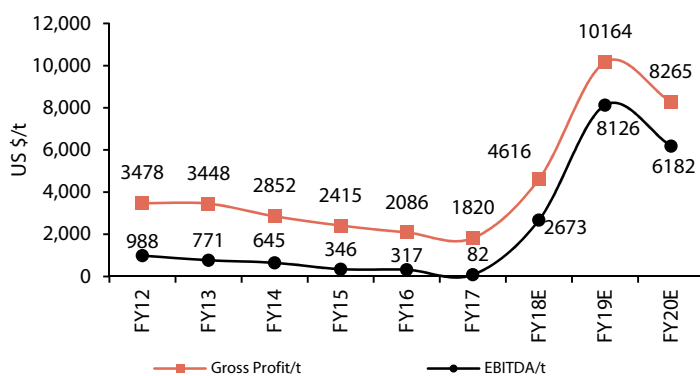
	FY19E			FY20E		
	Revised	Previous	% Chg	Revised	Previous	% Chg
Net Sales (Rsmn)	80,404	68,947	16.6	66,478	51,045	30.2
EBITDA (Rsmn)	47,749	31,867	49.8	35,042	18,432	90.1
EBITDA %	59.4	46.2		52.7	36.1	
PAT (Rsmn)	31,802	21,615	47.1	24,086	13,309	81.0

Source: Company, Centrum Research Estimates

Sharp improvement in spreads, earnings remain highly sensitive to spreads

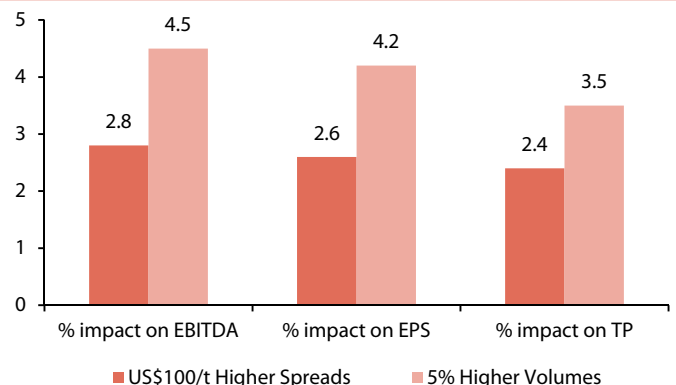
We expect sharp improvements in spreads to ~US\$10100/t in FY19E before coming down to ~US\$8300/t in FY20E. This is expected to be driven by current attractive price contracts which are executed with a pass through for needle coke price increases and hence ensures higher & sustainable spreads. However, the pricing contracts have become more short term in nature (quarterly negotiation etc) and hence could see volatility going forward. We note that earnings remain highly sensitive to volumes and spreads and every US\$100/t additional spreads results in ~2.5% increase in EBITDA/EP/TP while every 5% increase in volumes lead to ~4% increase in EBITDA/EP/TP.

Exhibit 2: Spreads and EBITDA/t to reach all time high levels in FY19E



Source: Company, Centrum Research Estimates

Exhibit 3: Earnings sensitivity to volumes & spreads remain high



Source: Centrum Research Estimates

Valuation – Prudent to value on 5 year average earnings, Maintain Hold

We believe that investors need to look beyond FY19E's supernormal profitability and factor in the valuations on more sustainable earnings which would emerge from FY20E/21E. Since GIL's business is highly cyclical in nature and there have been several instances of significant renegotiation in contracts (both up and down), we believe that investors should look at average earnings and cash flows from a valuation perspective. We value GIL on our conservative AOCF/EV yield methodology using five year average adj. cash flows (FY16-20E) to arrive at our revised TP of Rs1165. Maintain Hold. Key downside risk is margin pressure due to raw material volatility while upside risk is continuation of high spreads into FY20E/21E as that of FY19E.

Exhibit 4: Cash flow-based valuation

	Avg CF basis (FY16-20E)
5 Year avg. AOCF/EV Yield - % (FY14-18)	11.7
Ascribed AOCF/EV yield - % (50% premium)	5.9
Ascribed EV/AOCF Multiple (x)	17.1
Avg. AOCF (Rs mn) - FY16-20	11,103
EV (Rs mn)	1,89,591
Add: Net Cash (FY20E)	37,838
Fair value mkt cap	2,27,430
No. of shares (mn)	195.4
Fair Value/share (Rs)	1165

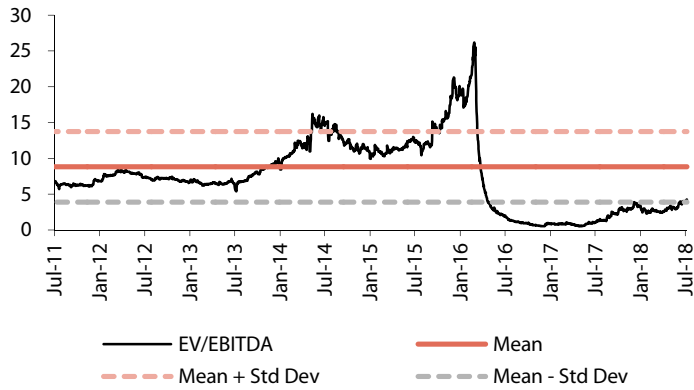
Source: Company, Centrum Research Estimates

Exhibit 5: Sensitivity Analysis (FY19E)

Sensitivity to key variables	% change	% impact on EBITDA	% impact on PAT
Electrode volume	1	0.9	0.9
Electrode Realization	1	2.7	2.5

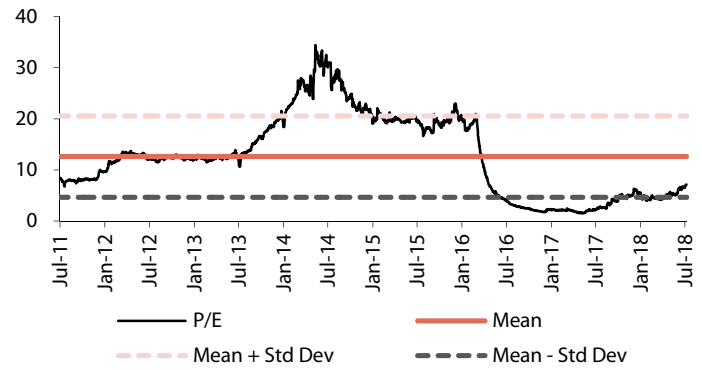
Source: Company, Centrum Research Estimates

Exhibit 6: 1 year forward EV/EBITDA chart



Source: Bloomberg, Company, Centrum Research Estimates

Exhibit 7: 1 year forward P/E chart



Source: Bloomberg, Company, Centrum Research Estimates

Exhibit 8: Valuation– Peer comparison

Company	Mkt. Cap	CAGR FY18-FY20E (%)			EBITDA Margin (%)			P/E (x)			EV/EBITDA (x)			RoE (%)			Div Yield (%)		
		Rev.	EBITDA	PAT	FY18	FY19E	FY20E	FY18	FY19E	FY20E	FY18	FY19E	FY20E	FY18	FY19E	FY20E	FY18	FY19E	FY20E
<u>Domestic(Rs mn)</u>																			
Graphite India	2,07,538	42.7	55.8	52.8	44.2	59.4	52.7	7.9	6.5	8.6	4.9	4.0	4.8	45.0	82.4	41.2	4.1	3.8	2.9
HEG	1,67,411	61.6	61.6	67.8	54.9	58.1	55.0	6.7	7.2	7.5	4.1	4.7	5.1	62.3	79.9	49.8	3.8	4.1	3.7
Vesuvius India#	26,180	13.1	15.8	18.1	18.2	18.6	19.1	26.1	23.2	19.1	13.5	11.9	9.5	16.6	16.3	17.0	0.5	0.6	0.8
Orient Refractories	28,539	15.6	13.5	15.0	20.3	19.4	19.5	21.3	28.7	25.0	13.5	19.0	16.1	28.7	28	27.3	1.6	1.2	1.4
<u>International\$(US\$ mn)</u>																			
Tokai Carbon Co	4,368	63.3	130.5	120.7	17.5	38.5	34.9	18.6	7.6	8.0	12.1		4.8	10.0	40.4	28.6	1.2	1.3	1.9
Showa Denko KK	7,134	15.7	40.9	89.7	14.9	21.4	22.1	14.9	7.5	6.5	7.2	4.9	4.6	10.4	28.3	25.0	2.3	1.8	2.1
Nippon Carbon Co	690	34.6	101.5	86.1	14.8	33.2	33.1	16.0	8.4	7.0	12.9		5.0	11.0			1.2	1.5	1.5

Source: Bloomberg Estimates, Centrum Research Estimates, #FY18=CY17 for Vesuvius India and global cos

Quarterly financials, operating metrics and key performance indicators

Exhibit 9: Quarterly Financials (standalone)

Particulars (Rs mn)	Q2FY17	Q3FY17	Q4FY17	Q1FY18	Q2FY18	Q3FY18	Q4FY18	Q1FY19
Net sales	3,146	3,308	3,734	3,510	4,619	9,331	12,122	17,770
Other Operating Income	50.6	67.7	0	0	0	0	0	0
Total Income	3,196	3,376	3,734	3,510	4,619	9,331	12,122	17,770
Accretion to Stocks in trade & work in progress	(4.9)	(79.9)	359.0	(42.3)	(160.3)	33.2	301.2	(1,350.0)
Cost of Raw Materials consumed	1,350	1,261	1,260	1,282	1,470	1,787	2,576	3,690
Consumption of Stores & Spares	300	320	352	344	346	430	486	480
Power & Fuel	599	625	633	709	729	797	758	800
Staff Cost	371	388	411	411	450	446	450	470
Other Operational expenses	440	499	573	451	485	651	748	680
Operating Profit (Core EBITDA)	141	364	147	355	1,299	5,186	6,686	13,000
Depreciation	97	96	126	120	120	113	111	110
EBIT	44	268	20	235	1,179	5,073	6,575	12,890
Interest	18	21	11	10	15	17	20	10
Other Revenue/Income	220	129	312	211	192	115	370	280
Profit Before Tax	246	375	321	436	1,356	5,170	6,925	13,160
Tax	87	142	(144)	142	457	1,765	2,388	4,580
Profit After Tax	159	234	620	294	899	3,405	4,537	8,580
Growth (%)								
Revenue	0.8	(5.0)	9.3	27.6	46.8	182.1	224.7	284.7
EBITDA	(69.6)	(14.8)	(54.4)	237.9	822.1	1,326.5	4,463.5	900.6
PAT	(42.5)	1.9	233.0	168.0	464.2	1,356.5	632.2	854.1
Margin (%)								
EBITDA	4.4	10.8	3.9	10.1	28.1	55.6	55.2	73.2
EBIT	1.4	7.9	0.5	6.7	25.5	54.4	54.2	72.5
PAT	5.0	6.9	16.6	8.4	19.5	36.5	37.4	48.3
Key Drivers								
Average Capacity Utilization (Electrodes - standalone) %	75%	85%	89%	95%	89%	95%	100%	98%
EBITDA/t (US\$)	140	317	123	290	1135	4218	5199	9885

Source: Company, Centrum Research

Exhibit 10: Key Assumptions

	FY16	FY17	FY18	FY19E	FY20E
Electrode Volumes (tonne)					
India Operations	55,600	63,400	75,800	76,000	72,000
Germany Operations	9,264	9,000	8,100	11,700	12,600
Total	64,864	72,400	83,900	87,700	84,600
Electrode Realisations (US\$/t)*	3,052	2,455	5,500	13,000	11,000
Needle Coke (US\$/t)*	900	700	1,000	3,500	3,400
USD/INR	65.5	67.0	64.4	67.0	67.0

Source: Company, Centrum Research Estimates; * Projected for FY16-18 as company doesn't report exact nos

Financials (Cons)

Exhibit 11: Income Statement

Y/E March (Rs mn)	FY16	FY17	FY18	FY19E	FY20E
Revenues	15,323	14,678	32,660	80,404	66,478
Materials cost	6,461	5,851	7,719	20,678	19,633
% of revenues	42.2	39.9	23.6	25.7	29.5
Employee cost	2,012	2,225	2,521	3,031	3,216
% of revenues	13.1	15.2	7.7	3.8	4.8
Others	5,504	6,206	7,978	8,945	8,587
% of revenues	35.9	42.3	24.4	11.1	12.9
EBITDA	1,346	396	14,442	47,749	35,042
EBITDA margin (%)	8.8	2.7	44.2	59.4	52.7
Depreciation & Amortisation	492	464	516	550	604
EBIT	854	(68)	13,925	47,199	34,438
Interest expenses	95	79	81	89	69
PBT from operations	759	(147)	13,845	47,110	34,369
Other income	494	865	885	1,075	2,125
Exceptional items	0	0	0	0	0
PBT	1,254	718	14,730	48,185	36,494
Taxes	426	13	4,410	16,383	12,408
Effective tax rate (%)	33.9	1.8	29.9	34.0	34.0
Reported PAT	828	705	10,320	31,802	24,086
Adjusted PAT	828	705	10,320	31,802	24,086

Source: Company, Centrum Research Estimates

Exhibit 12: Key Ratios

Y/E March	FY16	FY17	FY18	FY19E	FY20E
Growth Ratio (%)					
Revenue	(10.4)	(4.2)	122.5	146.2	(17.3)
EBITDA	(1.6)	(70.6)	3,551.5	230.6	(26.6)
Adjusted PAT	31.1	(14.9)	1,364.7	208.2	(24.3)
Margin Ratios (%)					
EBITDA	8.8	2.7	44.2	59.4	52.7
PBT from operations	5.0	(1.0)	42.4	58.6	51.7
Adjusted PAT	5.4	4.8	31.6	39.6	36.2
Return Ratios (%)					
ROE	4.6	3.9	45.0	82.4	41.2
ROCE	4.1	3.6	33.5	60.1	34.7
ROIC	3.4	-0.4	53.2	90.3	75.6
Turnover Ratios (days)					
Gross block turnover ratio (x)	1.1	1.3	4.1	9.1	6.9
Debtors	113	110	92	80	80
Inventory	178	150	88	100	100
Creditors	41	54	46	45	45
Cash conversion cycle	250	206	134	135	135
Solvency Ratio (x)					
Net debt-equity	(0.1)	(0.2)	(0.4)	(0.3)	(0.6)
Debt-equity	0.2	0.1	0.1	0.0	0.0
Interest coverage ratio	0.1	(1.2)	0.0	0.0	0.0
Gross debt/EBITDA	2.2	6.6	0.2	0.0	0.0
Current Ratio	2.8	2.9	3.0	3.2	4.8
Per share Ratios (Rs)					
Adjusted EPS	4.2	3.6	52.8	162.8	123.3
BVPS	91.5	95.1	139.8	255.2	342.7
CEPS	6.8	6.0	55.5	165.6	126.4
DPS	2.0	2.0	17.0	40.7	30.8
Dividend payout %	47.2	55.5	32.2	25.0	25.0
Valuation (x)* Avg MCap					
P/E (adjusted)	18.0	22.8	7.9	6.5	8.6
P/BV	0.8	0.9	3.0	4.2	3.1
EV/EBITDA	9.6	29.8	4.9	4.0	4.8
Dividend yield %	2.6	2.4	4.1	3.8	2.9
5 Yr Avg AOCF/EV yield %	14.5	21.0	5.6	3.1	6.5

Source: Company, Centrum Research Estimates

Exhibit 13: Balance Sheet

Y/E March (Rs mn)	FY16	FY17	FY18	FY19E	FY20E
Equity Share Capital	391	391	391	391	391
Reserves & surplus	17,489	18,185	26,927	49,483	66,566
Shareholders' fund	17,880	18,576	27,318	49,874	66,957
Total Debt	3,023	2,592	2,722	2,222	1,722
Def tax liab. (net)	863	821	945	945	945
Total Liabilities	21,766	21,989	30,985	53,041	69,624
Gross Block	14,165	7,624	8,493	9,168	10,068
Less: Acc. Depreciation	8,253	950	1,478	2,028	2,632
Net Block	5,912	6,674	7,016	7,141	7,437
Capital WIP	655	321	81	156	256
Net Fixed Assets	6,567	6,995	7,097	7,297	7,693
Investments	4,751	6,310	12,078	12,078	12,078
Inventories	7,485	6,021	7,864	22,028	18,213
Sundry debtors	4,742	4,415	8,235	17,623	14,571
Cash	211	515	556	6,460	27,482
Loans & Advances	357	116	114	661	546
Other assets	957	1,232	1,858	3,446	2,732
Total Current Asset	13,752	12,299	18,628	50,218	63,544
Trade payables	1,724	2,166	4,119	9,913	8,196
Other current Liab.	1,378	1,078	2,359	5,507	4,554
Provisions	201	370	340	1,132	941
Net Current Assets	10,448	8,684	11,810	33,666	49,853
Total Assets	21,766	21,989	30,985	53,041	69,624

Source: Company, Centrum Research Estimates

Exhibit 14: Cash Flow

Y/E March (Rs mn)	FY16	FY17	FY18	FY19E	FY20E
Operating profit before WC	1,735	731	14,661	47,749	35,042
Changes in working capital	1,626	2,296	(2,658)	(15,952)	4,835
Cash flow from operations	2,846	2,602	7,596	15,415	27,469
Adj. OCF (OCF - Interest)	2,751	2,523	7,515	15,326	27,400
Net Capex	550	864	574	750	1,000
Adj. FCF	2,201	1,659	6,941	14,576	26,400
Cash flow from investments	(871)	(2,255)	(5,541)	325	1,125
Cash flow from financing	(1,911)	(392)	(1,789)	(9,835)	(7,572)
Net change in cash	64	(44)	266	5,904	21,022

Source: Company, Centrum Research Estimates

Appendix A

Disclaimer

Centrum Broking Limited ("Centrum") is a full-service, Stock Broking Company and a member of The Stock Exchange, Mumbai (BSE) and National Stock Exchange of India Ltd. (NSE). Our holding company, Centrum Capital Ltd, is an investment banker and an underwriter of securities. As a group Centrum has Investment Banking, Advisory and other business relationships with a significant percentage of the companies covered by our Research Group. Our research professionals provide important inputs into the Group's Investment Banking and other business selection processes.

Recipients of this report should assume that our Group is seeking or may seek or will seek Investment Banking, advisory, project finance or other businesses and may receive commission, brokerage, fees or other compensation from the company or companies that are the subject of this material/report. Our Company and Group companies and their officers, directors and employees, including the analysts and others involved in the preparation or issuance of this material and their dependants, may on the date of this report or from, time to time have "long" or "short" positions in, act as principal in, and buy or sell the securities or derivatives thereof of companies mentioned herein. Centrum or its affiliates do not own 1% or more in the equity of this company. Our sales people, dealers, traders and other professionals may provide oral or written market commentary or trading strategies to our clients that reflect opinions that are contrary to the opinions expressed herein, and our proprietary trading and investing businesses may make investment decisions that are inconsistent with the recommendations expressed herein. We may have earlier issued or may issue in future reports on the companies covered herein with recommendations/ information inconsistent or different those made in this report. In reviewing this document, you should be aware that any or all of the foregoing, among other things, may give rise to or potential conflicts of interest. We and our Group may rely on information barriers, such as "Chinese Walls" to control the flow of information contained in one or more areas within us, or other areas, units, groups or affiliates of Centrum. Centrum or its affiliates do not make a market in the security of the company for which this report or any report was written. Further, Centrum or its affiliates did not make a market in the subject company's securities at the time that the research report was published.

This report is for information purposes only and this document/material should not be construed as an offer to sell or the solicitation of an offer to buy, purchase or subscribe to any securities, and neither this document nor anything contained herein shall form the basis of or be relied upon in connection with any contract or commitment whatsoever. This document does not solicit any action based on the material contained herein. It is for the general information of the clients of Centrum. Though disseminated to clients simultaneously, not all clients may receive this report at the same time. Centrum will not treat recipients as clients by virtue of their receiving this report. It does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of individual clients. Similarly, this document does not have regard to the specific investment objectives, financial situation/circumstances and the particular needs of any specific person who may receive this document. The securities discussed in this report may not be suitable for all investors. The securities described herein may not be eligible for sale in all jurisdictions or to all categories of investors. The countries in which the companies mentioned in this report are organized may have restrictions on investments, voting rights or dealings in securities by nationals of other countries. The appropriateness of a particular investment or strategy will depend on an investor's individual circumstances and objectives. Persons who may receive this document should consider and independently evaluate whether it is suitable for his/ her/their particular circumstances and, if necessary, seek professional/financial advice. Any such person shall be responsible for conducting his/her/their own investigation and analysis of the information contained or referred to in this document and of evaluating the merits and risks involved in the securities forming the subject matter of this document.

The projections and forecasts described in this report were based upon a number of estimates and assumptions and are inherently subject to significant uncertainties and contingencies. Projections and forecasts are necessarily speculative in nature, and it can be expected that one or more of the estimates on which the projections and forecasts were based will not materialize or will vary significantly from actual results, and such variances will likely increase over time. All projections and forecasts described in this report have been prepared solely by the authors of this report independently of the Company. These projections and forecasts were not prepared with a view toward compliance with published guidelines or generally accepted accounting principles. No independent accountants have expressed an opinion or any other form of assurance on these projections or forecasts. You should not regard the inclusion of the projections and forecasts described herein as a representation or warranty by or on behalf of the Company, Centrum, the authors of this report or any other person that these projections or forecasts or their underlying assumptions will be achieved. For these reasons, you should only consider the projections and forecasts described in this report after carefully evaluating all of the information in this report, including the assumptions underlying such projections and forecasts.

The price and value of the investments referred to in this document/material and the income from them may go down as well as up, and investors may realize losses on any investments. Past performance is not a guide for future performance. Future returns are not guaranteed and a loss of original capital may occur. Actual results may differ materially from those set forth in projections. Forward-looking statements are not predictions and may be subject to change without notice. Centrum does not provide tax advice to its clients, and all investors are strongly advised to consult regarding any potential investment. Centrum and its affiliates accept no liabilities for any loss or damage of any kind arising out of the use of this report. Foreign currencies denominated securities are subject to fluctuations in exchange rates that could have an adverse effect on the value or price of or income derived from the investment. In addition, investors in securities such as ADRs, the value of which are influenced by foreign currencies effectively assume currency risk. Certain transactions including those involving futures, options, and other derivatives as well as non-investment-grade securities give rise to substantial risk and are not suitable for all investors. Please ensure that you have read and understood the current risk disclosure documents before entering into any derivative transactions.

This report/document has been prepared by Centrum, based upon information available to the public and sources, believed to be reliable. No representation or warranty, express or implied is made that it is accurate or complete. Centrum has reviewed the report and, in so far as it includes current or historical information, it is believed to be reliable, although its accuracy and completeness cannot be guaranteed. The opinions expressed in this document/material are subject to change without notice and have no obligation to tell you when opinions or information in this report change.

This report or recommendations or information contained herein do/does not constitute or purport to constitute investment advice in publicly accessible media and should not be reproduced, transmitted or published by the recipient. The report is for the use and consumption of the recipient only. This publication may not be distributed to the public used by the public media without the express written consent of Centrum. This report or any portion hereof may not be printed, sold or distributed without the written consent of Centrum.

The distribution of this document in other jurisdictions may be restricted by law, and persons into whose possession this document comes should inform themselves about, and observe, any such restrictions. Neither Centrum 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.

This document does not constitute an offer or invitation to subscribe for or purchase or deal in any securities and neither this document nor anything contained herein shall form the basis of any contract or commitment whatsoever. This document is strictly confidential and is being furnished to you solely for your information, may not be distributed to the press or other media and may not be reproduced or redistributed to any other person. The distribution of this report in other jurisdictions may be restricted by law and persons into whose possession this report comes should inform themselves about, and observe any such restrictions. By accepting this report, you agree to be bound by the foregoing limitations. No representation is made that this report is accurate or complete.

The opinions and projections expressed herein are entirely those of the author and are given as part of the normal research activity of Centrum Broking and are given as of this date and are subject to change without notice. Any opinion estimate or projection herein constitutes a view as of the date of this report and there can be no assurance that future results or events will be consistent with any such opinions, estimate or projection.

This document has not been prepared by or in conjunction with or on behalf of or at the instigation of, or by arrangement with the company or any of its directors or any other person. Information in this document must not be relied upon as having been authorized or approved by the company or its directors or any other person. Any opinions and projections contained herein are entirely those of the authors. None of the company or its directors or any other person accepts any liability whatsoever for any loss arising from any use of this document or its contents or otherwise arising in connection therewith.

Centrum and its affiliates have not managed or co-managed a public offering for the subject company in the preceding twelve months. Centrum and affiliates have not received compensation from the companies mentioned in the report during the period preceding twelve months from the date of this report for service in respect of public offerings, corporate finance, debt restructuring, investment banking or other advisory services in a merger/acquisition or some other sort of specific transaction.

As per the declarations given by them, Mr. Abhisar Jain & Mr. Sahil Sanghvi, research analyst and and/or any of their family members do not serve as an officer, director or any way connected to the company/companies mentioned in this report. Further, as declared by them, they are not received any compensation from the above companies in the preceding twelve months. They do not hold any shares by them or through their relatives or in case if holds the shares then will not to do any transactions in the said scrip for 30 days from the date of release such report. Our entire research professionals are our employees and are paid a salary. They do not have any other material conflict of interest of the research analyst or member of which the research analyst knows of has reason to know at the time of publication of the research report or at the time of the public appearance.

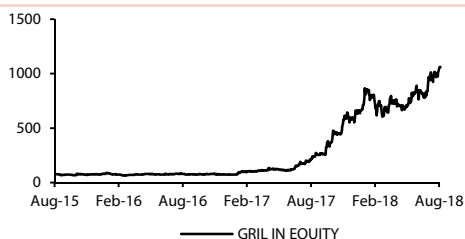
While we would endeavour to update the information herein on a reasonable basis, Centrum, its associated companies, their directors and employees are under no obligation to update or keep the information current. Also, there may be regulatory, compliance or other reasons that may prevent Centrum from doing so.

Non-rated securities indicate that rating on a particular security has been suspended temporarily and such suspension is in compliance with applicable regulations and/or Centrum policies, in circumstances where Centrum is acting in an advisory capacity to this company, or any certain other circumstances.

This report is not directed to, 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 or regulation or which would subject Centrum Broking Limited or its group companies to any registration or licensing requirement within such jurisdiction. Specifically, this document does not constitute an offer to or solicitation to any U.S. person for the purchase or sale of any financial instrument or as an official confirmation of any transaction to any U.S. person unless otherwise stated, this message should not be construed as official confirmation of any transaction. No part of this document may be distributed in Canada or used by private customers in United Kingdom.

The information contained herein is not intended for publication or distribution or circulation in any manner whatsoever and any unauthorized reading, dissemination, distribution or copying of this communication is prohibited unless otherwise expressly authorized. Please ensure that you have read "Risk Disclosure Document for Capital Market and Derivatives Segments" as prescribed by Securities and Exchange Board of India before investing in Indian Securities Market.

Graphite India price chart



Source: Bloomberg, Centrum Research

Disclosure of Interest Statement

1	Business activities of Centrum Broking Limited (CBL)	Centrum Broking Limited (hereinafter referred to as "CBL") is a registered member of NSE (Cash, F&O and Currency Derivatives Segments), MCX-SX (Currency Derivatives Segment) and BSE (Cash segment), Depository Participant of CDSL, SEBI registered Portfolio Manager and an AMFI registered Mutual Fund Distributor.
2	Details of Disciplinary History of CBL	CBL has not been debarred/ suspended by SEBI or any other regulatory authority from accessing /dealing in securities market.
3	Registration status of CBL:	CBL is registered with SEBI as a Research Analyst (SEBI Registration No. INH000001469)

		Graphite India
4	Whether Research analyst's or relatives' have any financial interest in the subject company and nature of such financial interest	No
5	Whether Research analyst or relatives have actual / beneficial ownership of 1% or more in securities of the subject company at the end of the month immediately preceding the date of publication of the document.	No
6	Whether the research analyst or his relatives has any other material conflict of interest	No
7	Whether research analyst has received any compensation from the subject company in the past 12 months and nature of products / services for which such compensation is received	No
8	Whether the Research Analyst has received any compensation or any other benefits from the subject company or third party in connection with the research report	No
9	Whether Research Analysts has served as an officer, director or employee of the subject company	No
10	Whether the Research Analyst has been engaged in market making activity of the subject company.	No
11	Whether it or its associates have managed or co-managed public offering of securities for the subject company in the past twelve months;	No
12	Whether it or its associates have received any compensation for investment banking or merchant banking or brokerage services from the subject company in the past twelve months;	No
13	Whether it or its associates have received any compensation for products or services other than investment banking or merchant banking or brokerage services from the subject company in the past twelve months;	No

Rating Criteria

Rating	Market cap < Rs20bn	Market cap > Rs20bn but < 100bn	Market cap > Rs100bn
Buy	Upside > 20%	Upside > 15%	Upside > 10%
Hold	Upside between -20% to +20%	Upside between -15% to +15%	Upside between -10% to +10%
Sell	Downside > 20%	Downside > 15%	Downside > 10%

Member (NSE and BSE)**Regn No.:**

CAPITAL MARKET SEBI REGN. NO.: BSE: INB011454239
CAPITAL MARKET SEBI REGN. NO.: NSE: INB231454233
DERIVATIVES SEBI REGN. NO.: NSE: INF231454233
(Trading & Clearing Member)
CURRENCY DERIVATIVES: MCX-SX INE261454230
CURRENCY DERIVATIVES: NSE (TM & SCM) – NSE 231454233

Depository Participant (DP)

CDSL DP ID: 120 – 12200
SEBI REGD NO.: CDSL : IN-DP-CDSL-661-2012

PORTFOLIO MANAGER

SEBI REGN NO.: INP000004383

Research Analyst

SEBI Registration No. INH000001469

Mutual Fund Distributor

AMFI REGN No. ARN- 147569

Website: www.centrum.co.in

Investor Grievance Email ID: investor.grievances@centrum.co.in

Compliance Officer Details:

Ashok D Kadambi
(022) 4215 9937; Email ID: compliance@centrum.co.in

Centrum Broking Ltd. (CIN :U67120MH1994PLC078125)

Registered Office Address	Corporate Office & Correspondence Address
Bombay Mutual Building , 2nd Floor, Dr. D. N. Road, Fort, Mumbai - 400 001	Centrum House 6th Floor, CST Road, Near Vidya Nagari Marg, Kalina, Santacruz (E), Mumbai 400 098. Tel: (022) 4215 9000 Fax: +91 22 4215 9344