

12 February 2020

ITD Cementation, India

Assurance in abundance; execution, the key; retaining a Buy

Rating: **Buy**

Target Price: ₹77

Share Price: ₹62

Though strong accretion continues, a large proportion of the orders ITDC added in the last 12 months have yet to be grounded. Thus, they do not reflect in its revenue performance. The gradually rising contribution from these would mean FY21 is better. The balance sheet is in shape to reap the benefits of an augmented OB. The near-complete/completed status by then for some legacy projects would mean they are no more a drag on overall profitability. We retain a Buy as the adverse developments (pertaining to Kolkata and Bengaluru metro-rails) seem more than factored in, and as the recent strong additions raise hopes of better times.

Kolkata metro-rail, the wait set to end. Having been cleared by the Kolkata High Court, management intends to start tunnelling shortly, and finish in seven months. The other works would continue for another year, implying a 20-month execution timeline. Management does not see it hurting overall profitability, as contingency reserves are good to cover higher costs.

Net debt down q/q. The ~₹0.2bn q/q lower consolidated net debt (at ~₹4.4bn) was the result of lower debt at the Bengaluru metro-rail SPV (gross debt down ~₹0.7bn q/q). This is good as there were concerns about this zero-margin (post-lowered scope) project's ability to generate CF to meet obligations. Post-Q3, the SPV debt seems to be another ~₹0.2bn lower.

Inflows, at new single-year best; OB strength to only rise further. The ~₹29bn H1 additions were followed by firm orders of ~₹26bn in Q3 and L1 of ~₹3.5bn. The ~₹120bn healthy prospect pipeline suggests more is likely in the rest of the year. Ytd additions, though diversified, seem to be lacking marine (its forte); consequently, marine's share in the OB is below 30%.

Valuations. We lower our FY20e earnings ~21% (and ~7% for FY21) to factor in incidental/mobilising costs for some of the recent orders (until these turn contributing), and the lower marine share. We introduce and roll forward our valuation to FY22e. On our revised estimates, the stock trades at PER of 9x FY20e, 8x FY21e and 6x FY22e. **Risk:** Slower-than-expected execution.

Key financials (YE Mar)	CY17	FY19*	FY20e	FY21e	FY22e
Sales (₹ m)	20,605	31,651	28,725	34,256	38,319
Net profit (₹ m)	947	819	695	1,181	1,328
EPS (₹)	6.1	3.8	4.0	6.9	7.7
Growth (%)	86.2	-50.0	26.3	69.8	12.5
PE (x)	35.7	34.5	15.3	9.0	8.0
EV / EBITDA (x)	13.8	10.6	5.3	4.6	4.2
PBV (x)	5.5	2.2	1.0	0.9	0.8
RoE (%)	16.2	8.0	6.6	10.4	10.6
RoCE (%)	24.7	15.6	12.3	14.5	15.1
Net debt / equity (x)	0.6	0.4	0.4	0.5	0.4

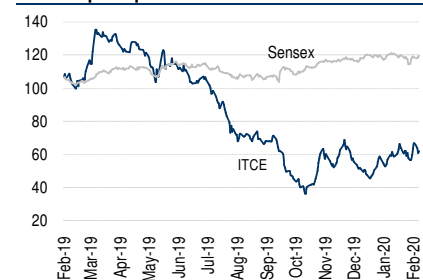
Source: Company, Anand Rathi Research * FY19 is a 15-month period; figures annualised where necessary

Key data	ITCE IN / ITCM.BO
52-week high / low	₹144 / 35
Sensex / Nifty	41566 / 12201
3-m average volume	\$0.3m
Market cap	₹10.7bn / \$150m
Shares outstanding	172m

Shareholding pattern (%)	Dec-19	Sep-19	Jun-19
Promoters	46.6	46.6	46.6
- of which, Pledged	-	-	-
Free float	53.4	53.4	53.4
- Foreign institutions	7.3	5.2	5.5
- Domestic institutions	27.0	30.8	29.7
- Public	19.1	17.4	18.2

Estimates revision (%)	FY20e	FY21e
Sales	-0.7	1.1
EBITDA	-5.9	-4.5
EPS	-21.0	-6.5

Relative price performance



Source: Bloomberg

Prem Khurana
Research Analyst

Rachit R Kamath
Research Associate

Anand Rathi Share and Stock Brokers Limited (hereinafter "ARSSBL") is a full-service brokerage and equities-research firm and the views expressed therein are solely of ARSSBL and not of the companies which have been covered in the Research Report. This report is intended for the sole use of the Recipient. Disclosures and analyst certifications are present in the Appendix.

Quick Glance – Financials and Valuations (consolidated)

Fig 1 – Income statement (₹ m)

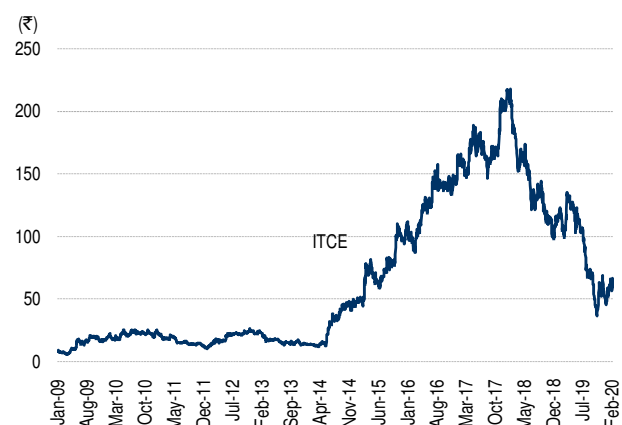
Year-end: Mar	CY17	FY19*	FY20e	FY21e	FY22e
Order backlog	75,132	99,926	1,26,507	1,35,414	1,46,710
Order inflow	32,007	50,516	60,000	47,844	53,519
Net revenues	20,605	31,651	28,725	34,256	38,319
Growth (%)	-29.9	22.9	14.7	19.3	11.9
Direct costs	15,753	26,262	24,209	28,763	32,126
SG&A	2,138	2,217	1,649	2,016	2,286
EBITDA	2,715	3,171	2,867	3,477	3,907
EBITDA margins (%)	13.2	10.0	10.0	10.1	10.2
Depreciation	577	824	963	1,027	1,089
Other income	353	243	62	60	62
Interest expenses	876	1,243	1,300	1,327	1,449
PBT	1,614	1,346	665	1,183	1,431
Effective tax rate (%)	32.7	38.1	33.3	25.6	25.6
+ Associates / (Minorities)	-139	-14	252	301	263
Net income	728	819	695	1,181	1,328
Adjusted income	947	819	695	1,181	1,328
WANS	155	172	172	172	172
FDEPS (₹ / sh)	6.1	3.8	4.0	6.9	7.7

Fig 3 – Cash-flow statement (₹ m)

Year-end: Mar	CY17	FY19*	FY20e	FY21e	FY22e
PBT+ Net interest expense	2,137	2,346	1,903	2,450	2,818
+ Non-cash items	577	824	963	1,027	1,089
Oper. prof. before WC	2,715	3,171	2,867	3,477	3,907
- Incr. / (decr.) in WC	1,382	4,156	267	1,814	1,384
Others incl. taxes	528	513	222	303	367
Operating cash-flow	804	-1,499	2,379	1,359	2,156
- Capex (tang. + intang.)	1,670	1,190	1,662	1,161	1,195
Free cash-flow	-866	-2,688	717	198	961
Acquisitions	0	0	0	0	0
- Div. (incl. buyback & taxes)	56	83	83	83	83
+ Equity raised	0	3,312	0	0	0
+ Debt raised	1,327	402	245	904	275
- Fin investments	0	0	0	0	0
- Net int. expense + Misc.	899	1,013	983	966	1,123
Net cash-flow	-495	-71	-104	53	30

Source: Company, Anand Rathi Research * 15 months; annualised where applicable

Fig 5 – Price movement



Source: Bloomberg

Fig 2 – Balance sheet (₹ m)

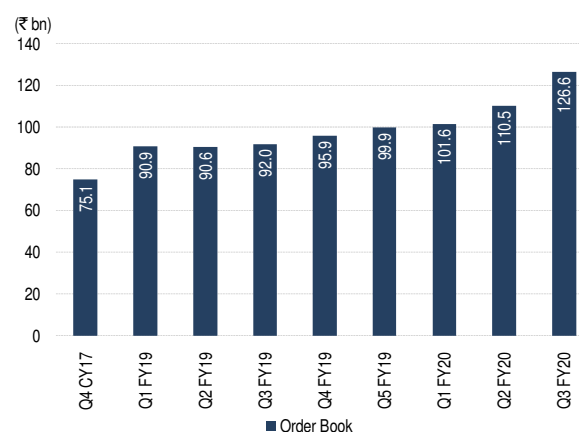
Year-end: Mar	CY17	FY19*	FY20e	FY21e	FY22e
Share capital	155	172	172	172	172
Net worth	6,173	10,208	10,820	11,918	13,162
Debt	4,886	5,323	5,568	6,472	6,746
Minority interest	9	22	25	25	25
DTL / (Assets)	-17	-52	-52	-52	-52
Capital employed	11,051	15,501	16,361	18,362	19,882
Net tangible assets	4,618	5,217	4,823	4,974	5,096
Net intangible assets	0	77	1,193	1,177	1,160
Goodwill	0	0	0	0	0
CWIP (tang. & intang.)	385	73	50	50	50
Investments (strategic)	6	6	6	6	6
Investments (financial)	0	0	0	0	0
Current assets (ex cash)	17,764	19,460	21,636	25,025	27,619
Cash	1,158	1,087	982	1,035	1,064
Current liabilities	12,880	10,420	12,329	13,904	15,113
Working capital	4,885	9,041	9,307	11,121	12,506
Capital deployed	11,051	15,501	16,361	18,362	19,882
Contingent liabilities	24,003	17,340	-	-	-

Fig 4 – Ratio analysis

Year-end: Mar	CY17	FY19*	FY20e	FY21e	FY22e
P/E (x)	35.7	34.5	15.3	9.0	8.0
EV / EBITDA (x)	13.8	10.6	5.3	4.6	4.2
EV / Sales (x)	1.8	1.1	0.5	0.5	0.4
P/B (x)	5.5	2.2	1.0	0.9	0.8
RoE (%)	16.2	8.0	6.6	10.4	10.6
RoCE (%)	24.7	15.6	12.3	14.5	15.1
RoIC (%)	20.3	10.4	8.7	11.3	11.6
DPS (₹ / sh)	0.3	0.4	0.4	0.4	0.4
Dividend yield (%)	0.1	0.3	0.6	0.6	0.6
Dividend payout (%) - incl. DDT	5.9	12.6	12.0	7.0	6.3
Net debt / equity (x)	0.6	0.4	0.4	0.5	0.4
Receivables (days)	42	63	62	60	60
Inventory (days)	28	35	30	31	31
Payables (days)	110	80	76	77	77
CFO : PAT %	84.9	-183.1	342.1	115.1	162.3

Source: Company, Anand Rathi Research * 15 months; annualised where applicable

Fig 6 – End-Q3 FY20 OB @ ~₹127bn, a lifetime high



Source: Company Note- FY19 is a 15-month period

Result / Concall highlights

- **Revenue growth, at ~10% y/y; could have been better.** The ~10% y/y growth in revenue from operations lagged even management's internal estimate. Management attributes slow growth to the delay in starting electro-mechanical work at the Udangudi project (client-driven delay), and to the fairly recently added orders (sites in the process of being mobilised).
 - As with the last two quarters, the standalone entity, with ~15% y/y higher revenues, was yet again the key growth driver.
 - Consolidated revenue growth lagged standalone operations growth by ~5%, implying the subsidiaries saw revenue (~₹1.8bn, derived) decline ~1% y/y.
 - The subsidiaries' operations chiefly comprise the Bengaluru elevated metro-rail project and an irrigation project in the Telengana. Of the two, the irrigation project has been moving slow, whereas the Bengaluru project, after a short blip in the recent past, is doing well now.

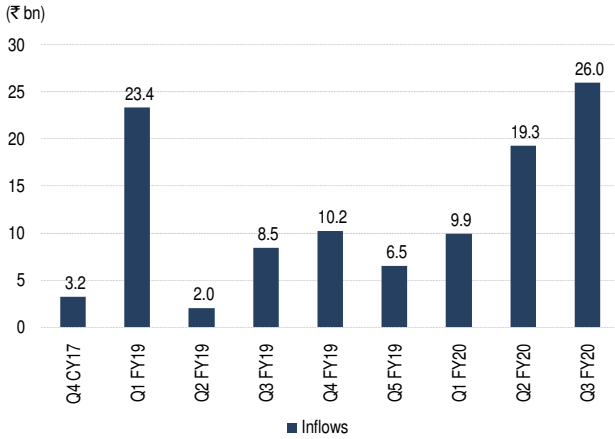
Fig 7 – Financial highlights*

(₹m)	Q4 CY17	Q1 FY19	Q2 FY19	Q3 FY19	Q4 FY19	Q5 FY19	Q1 FY20	Q2 FY20	Q3 FY20	% y/y	% q/q
Sales	5,749	6,547	6,529	6,204	6,405	5,899	7,046	7,091	7,073	10.4	-0.3
EBITDA	786	611	862	781	853	-4	745	729	640	-24.9	-12.2
EBITDA margin (%)	13.7	9.3	13.2	12.6	13.3	-0.1	10.6	10.3	9.1	-427bps	-123bps
Interest	218	231	223	244	267	279	309	315	328	22.9	4.0
Depreciation	165	147	185	159	146	186	232	237	243	65.9	2.5
Other income	151	85	57	61	32	74	17	11	10	-69.4	-10.9
Exceptional item	218	-	-	-	-	-	-	-	-	-	-
PBT	335	318	512	439	473	-395	220	188	80	-83.1	-57.5
Tax	167	44	183	161	155	-30	111	22	42	-72.8	89.5
PAT	168	275	329	278	317	-366	109	166	38	-88.1	-77.3
Minority +JV / Asso.	10	-6	-43	-5	27	13	57	51	65	142.7	27.2
Reported PAT	178	268	286	273	344	-353	167	217	103	-70.2	-52.7
Adj. PAT	396	268	286	273	344	-353	167	217	103	-70.2	-52.7

Source: Company *FY19 is a 15-month period, Q3 FY19 is comparable to Q2 FY20

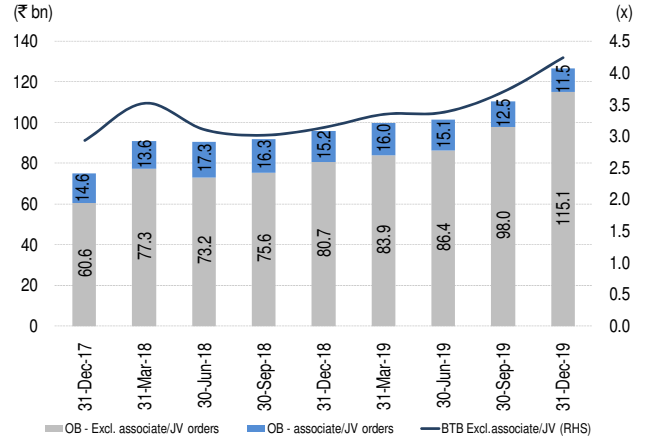
- **Margin compression, largely a result of the Bengaluru elevated metro-rail.** The significant contribution from the zero-margin (post de-scoping) Bengaluru elevated metro-rail is the chief reason for the sharp ~427bp margin compression to ~9.1%. In the corresponding quarter last year, the project was still margin-accretive.
 - Besides the Bengaluru elevated metro-rail project, the contribution from some of the new orders where the margin recognition threshold has not yet been attained impacted the margins.
 - With three of the four Bengaluru elevated metro-rail packages expected to be done with by Jul'20, and the last by Dec'20 (provided balance work front is made available), the drag is likely to fade sooner than later.

Fig 8 – 9M inflows: ~₹55bn; excl. L1 of ~₹3.5bn



Source: Company

Fig 9 – End-Q3 FY20 OB ~₹127bn; ~₹130bn incl. L1



Source: Company

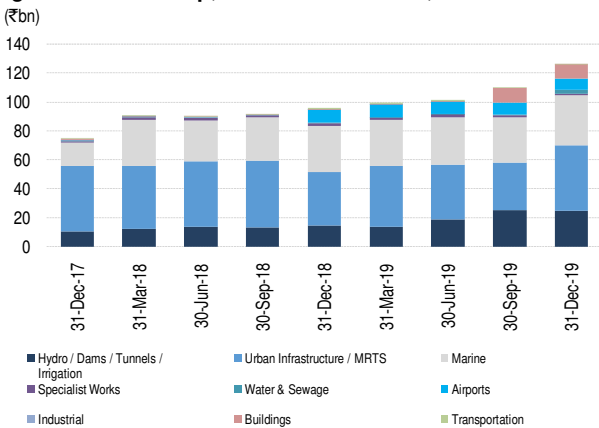
■ **A sharp y/y cut in consolidated earnings.** Lower operating profitability along with higher finance costs (up ~23% y/y) and depreciation (up ~66% y/y) led to the ~70% y/y earnings decline, to ~₹103m. The higher effective tax rate (~53%), too, was a drag on the consolidated profitability.

- Higher depreciation is attributable to a mix of the change in accounting treatment for assets-taken-on-lease, and capex incurred earlier.
- Higher finance cost despite lower debt is on account of interest on the higher balance of mobilisation advances (advances up ~₹1.5bn over 9M FY20) and higher BG/LC charges (on the higher order backlog).

Inflows / Order backlog

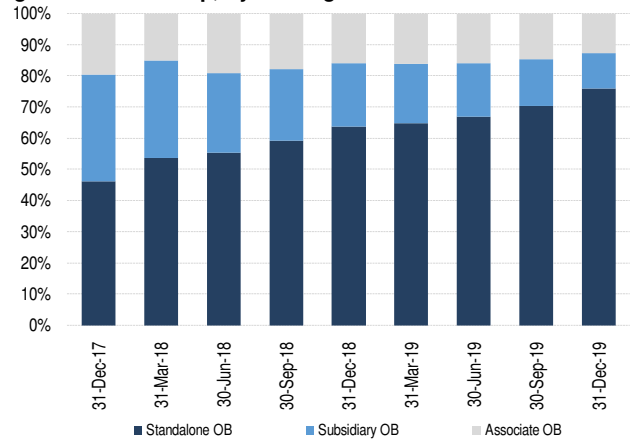
■ **Strong year-to-date inflows.** ~₹26bn of Q3 inflows, followed by the strong H1 inflows of ~₹29bn, enabled the company’s ytd inflows of ~₹55bn. With this, ytd inflows have already exceeded the 15-month FY19 addition of ~₹51bn. With ~₹3.5bn of L1 positions, FY20 is set to become ITD’s best year in terms of accretion.

Fig 10 – OB break-up; MRTS ~36% of total, marine at ~28%



Source: Company

Fig 11 – OB break-up, by holdings



Source: Company

- With inflows exceeding orders executed in 9M by a significant margin, the company closed Q3 FY20 with the order backlog (incl. JVs/associates) at a lifetime high of ~₹127bn.
 - Of this, an estimated ~₹12bn pertains to the JVs/associates, primarily the Mumbai metro-rail works of ~₹9bn. The order backlog of ~₹115bn (excl. the share of JVs/associates) implies revenue assurance of ~4.2x.

Opportunities in sight / Competitive intensity

- Management eyes a prospective bid-pipeline of ~₹120bn, expected to materialise in the near term. Without offering any sector-wise break-up, major prospects are:
 - The company has submitted bids for three of the four JNP (Nhava Sheva) tenders: for supply of raw materials, ground strengthening and construction of a jetty. These bids could provide a potential EPC opportunity of ~₹35bn. There are three to four bidders and no restriction clause (implying a single bidder can bag all contracts). Management hopes to bag 1-2 projects, having previously delivered quality works to the authority. Discussions are underway.
 - On the sewerage front, it eyes six projects in Mumbai, each of ~₹24bn-25bn. These are composite orders. It has already submitted its bid for a project, expected to be opened this month.
 - It also sees potential for works in Sri Lanka (a ~₹10bn opportunity), a ~₹4bn Kolkata High Court project, jobs in Kochi, and Seabird Karwar among others.
 - On its recent interest in the buildings segment, the company indicates it is primarily eyeing orders only in hospitals, educational institutes (IIMs/IITs), airports and other such institutional projects.

Guidance

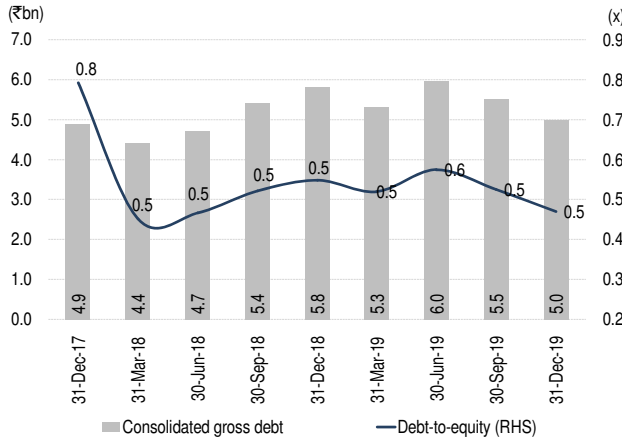
- Management hasn't explicitly provided any revenue guidance for FY20 besides suggesting that revenue growth would be healthy. For FY21, having commenced execution on all of the recently-acquired projects, management sees ~₹40bn of revenues as possible.
- With the strong ~₹55bn 9M inflows (already ahead of 15M FY19) and a sound L1 position of ~₹3.5bn, management seems confident of closing FY20 with ₹55bn+ inflows. For FY21, it has guided to inflows of ~₹70bn-80bn.
- Having incurred ~₹0.7bn 9M FY20 capex, the management doesn't envisage material capex in Q4 beyond ~₹0.1bn-0.2bn. For FY21, it intends to incur similar capex as in FY20, at ~₹0.8bn.
- With some past orders yet a part of the order backlog, management does not envisage blended margins in the immediate future. But, expecting most of these past orders to be complete by FY21, it does not rule out margins starting to expand from FY22.

Balance sheet

- Even with ~10% y/y growth in consolidated revenue, consolidated net debt was down ~₹0.2bn q/q to ~₹4.4bn. The lower net debt is almost entirely owing to the Bengaluru elevated metro-rail SPV, as standalone net debt was largely flat.

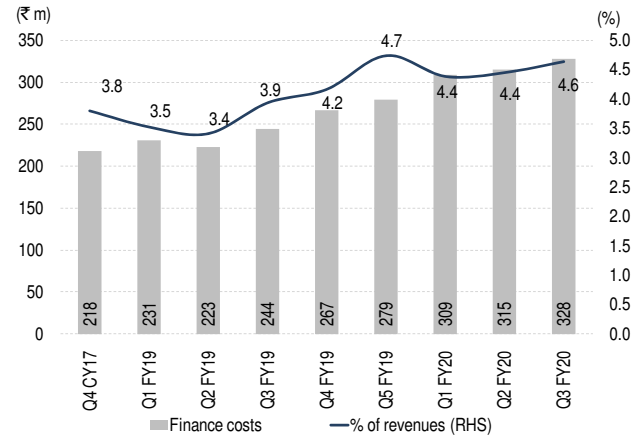
- We estimate the gross debt for the Bengaluru SPV to have come down by ~₹0.7bn, to ~₹2.2bn. Interaction with the management suggests that gross debt is now ~₹2bn, implying a further reduction of ~₹0.2bn after the close of Q3.
- The Bengaluru SPV-driven lower net debt is heartening as there were looming concerns regarding the SPV’s ability to generate cash-flows after the reduced scope (and, resultantly, zero margins), and effect repayments.

Fig 12 – Debt down, due to Bengaluru metro-rail SPV



Source: Company

Fig 13 – Finance cost, as % of sales, steady



Source: Company

- ITD is not an exception to the general trend of a lengthened working-capital cycle for most (if not, for all). Ideally the operations should have led to even lower consolidated net debt, but the working-capital cycle lengthening from 105-110 days at end-Q2 to 115-120 at end-Q3 arrested any reduction in net debt. Management does not see it to rise further; rather any lumpy receipt of mobilisation advances could help it come down in the short term.
- On 31st Dec’20, receivables were ~₹4.8bn (~₹4.4bn on 31st Mar’19), unbilled revenues ~₹8bn (up from ~₹6bn at end-FY19), inventories ~₹2bn-2.5bn, payables funded ~₹6bn (~₹5.6bn at end-FY19), and mobilisation advances were ~₹5bn (up from ~₹3.5bn on 31st Mar’19).
- From the new orders, management has yet to realise mobilisation advances of ~₹3bn-3.5bn, which would help it fund a part of its needs. Finance costs for these are mostly linked to the bank rate, plus ~200bps.
- In 9M FY20, the company incurred capex of ~₹0.65bn, and expects to incur another ~₹0.1bn-0.2bn in Q4. Notwithstanding the strong order accretion, management does not see its capex spend to change materially as it sees its existing equipment bank to be good for a large part of the new orders added. On the existing orders, it envisages capex at ~₹0.75-0.8bn for the next year as well.
- On its funding limits, ITD has fund-based limits of ₹6bn-6.5bn. Of which, ~50% has been utilised. Regarding non-fund-based limits, of the total ~₹33bn, ~75% has been utilised. Besides, it has separate limits at the various JVs/associates.

Key project update

- **The Kolkata underground metro-rail.** The project has recently received a favourable ruling from the Kolkata High Court, allowing it to re-commence tunnelling at the project. It expects to recommence

this shortly. Execution was not on a complete halt as ancillary work was underway even while the tunneling work was on hold.

- Of the ~₹17bn project, ~₹5bn is pending. As the company has access to only one TBM at the project, work is expected to take some time, pegged at ~20 months.
 - Management reiterates that the contingency buffer, insurance coverage (contractor policy, third-party liability coverage, special policy for TBMs) all combined, would suffice to cover any additional costs. Thus, the project is unlikely to trim overall margins.
 - Before any claims are filed for re-imburement of rehabilitation expenses for the displaced people, it would try to discuss matters with the client.
- **Bengaluru elevated metro-rail.** Having booked revenue of ~₹1.8bn in Q3, at end-Q3 the project's pending backlog was pegged at ~₹8.5bn. Management maintains its target of completing three of the four packages by Jul'20. The fourth is likely to take a little longer (completion expected by Dec'20) as the full work front has not yet been made available. Management maintains that all potential losses owing to the change in scope have already been accounted for.
 - **The Mumbai underground-rail.** Cumulatively, ~44% progress has already been attained, and the project is contributing positively in the earnings.
 - **The Nagpur elevated metro-rail.** Construction is on in full swing and the company has already completed five elevated stations. It targets a May'20 completion for the project.
 - **The Udangudi project.** Of the ~₹17bn marine project, works of ~₹12bn are pending. Currently, it is billing ~₹0.3bn a month on the project. It had expected to book higher revenues, wanting to commence execution on the electro-mechanical works. Client-approval delays regarding such works curbed revenues. It now expects to bill ~₹0.5bn-0.6bn a month.
 - **IRCON tunnelling works.** These projects (for a rail line to Sikkim) are to be executed over three years. Of three packages, tunnelling works have already commenced at two and approach works are on-going for the third.
 - **Bengaluru underground metro-rail.** The ~₹17.7bn recently bagged underground metro-rail project, management said, would need insignificant capex, as the two old but refurbished TBMs are already available with it. Management expects to break ground at the project in coming months with tunnelling expected to start by Sep-Oct'20.
 - **Myanmar order from Adani Yangong International Terminal.** A ~₹5.6bn order received in Q3 FY20, management envisages commencing execution at the project in Apr'20 and is currently in the process of mobilising the site. This is a fixed-price, fixed-time contract with 20 months as the execution timeline.

Estimates revision, Valuation

To account for some of the incidental costs / initial resource mobilising cost toward some of the recently bagged orders that have yet to start contributing, we lower our margin estimates. Besides, the lower share of the marine margin in the order backlog make us prune our margins. Estimates have also been adjusted for the significantly higher tax rate in Q3. Resultantly, our FY20e earnings are ~21% lower, and ~7% for FY21. We introduce FY22e revenues of ~₹38bn, EBITDA of ~₹3.9bn and adjusted PAT of ~₹1.3bn.

On our new estimates, and on rolling forward to FY22, our target price has been raised from ₹74 a share earlier to ₹77 now. The TP has been derived using 10x FY21e EPS of ~₹7.7.

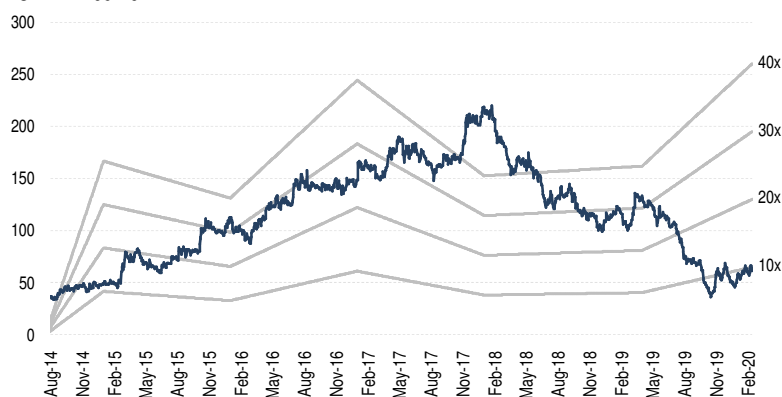
Fig 14 – Change in estimates

₹ m)	Original Estimates		Revised Estimates		Change (%)	
	FY20e	FY21e	FY20e	FY21e	FY20e	FY21e
Revenue	28,915	33,874	28,725	34,256	-0.7	1.1
EBITDA	3,048	3,640	2,867	3,477	-5.9	-4.5
EPS (₹)	5.1	7.4	4.0	6.9	-21.0	-6.5

Source: Anand Rathi Research

On our revised estimates, the stock trades at PER of 9x FY20e, 8x FY21e and 6x FY22e.

Fig 15 – PE band



Source: Bloomberg, Anand Rathi Research

Risk

- Any markedly slower-than-expected execution.

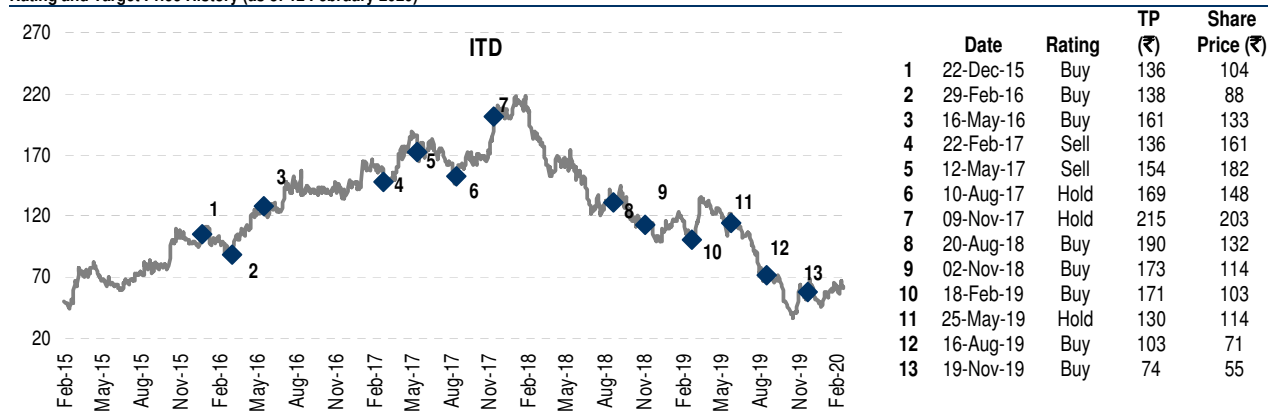
Appendix

Analyst Certification

The views expressed in this Research Report accurately reflect the personal views of the analyst(s) about the subject securities or issuers and no part of the compensation of the research analyst(s) was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the research analyst(s) in this report. The research analysts are bound by stringent internal regulations and also legal and statutory requirements of the Securities and Exchange Board of India (hereinafter "SEBI") and the analysts' compensation are completely delinked from all the other companies and/or entities of Anand Rathi, and have no bearing whatsoever on any recommendation that they have given in the Research Report.

Important Disclosures on subject companies

Rating and Target Price History (as of 12 February 2020)



Anand Rathi Ratings Definitions

Analysts' ratings and the corresponding expected returns take into account our definitions of Large Caps (>US\$1bn) and Mid/Small Caps (<US\$1bn) as described in the Ratings Table below:

Ratings Guide (12 months)

	Buy	Hold	Sell
Large Caps (>US\$1bn)	>15%	5-15%	<5%
Mid/Small Caps (<US\$1bn)	>25%	5-25%	<5%

Research Disclaimer and Disclosure inter-alia as required under Securities and Exchange Board of India (Research Analysts) Regulations, 2014

Anand Rathi Share and Stock Brokers Ltd. (hereinafter refer as ARSSBL) (Research Entity) is a subsidiary of Anand Rathi Financial Services Ltd. ARSSBL is a corporate trading and clearing member of Bombay Stock Exchange Ltd, National Stock Exchange of India Ltd. (NSEIL), Multi Stock Exchange of India Ltd (MCX-SX) and also depository participant with National Securities Depository Ltd (NSDL) and Central Depository Services Ltd. ARSSBL is engaged in the business of Stock Broking, Depository Participant and Mutual Fund distributor.

The research analysts, strategists, or research associates principally responsible for the preparation of Anand Rathi research have received compensation based upon various factors, including quality of research, investor client feedback, stock picking, competitive factors and firm revenues.

General Disclaimer: This Research Report (hereinafter called "Report") is meant solely for use by the recipient and is not for circulation. This Report does not constitute a personal recommendation or take into account the particular investment objectives, financial situations, or needs of individual clients. The recommendations, if any, made herein are expression of views and/or opinions and should not be deemed or construed to be neither advice for the purpose of purchase or sale of any security, derivatives or any other security through ARSSBL nor any solicitation or offering of any investment/trading opportunity on behalf of the issuer(s) of the respective security (ies) referred to herein. These information / opinions / views are not meant to serve as a professional investment guide for the readers. No action is solicited based upon the information provided herein. Recipients of this Report should rely on information/data arising out of their own investigations. Readers are advised to seek independent professional advice and arrive at an informed trading/investment decision before executing any trades or making any investments. This Report has been prepared on the basis of publicly available information, internally developed data and other sources believed by ARSSBL to be reliable. ARSSBL or its directors, employees, affiliates or representatives do not assume any responsibility for, or warrant the accuracy, completeness, adequacy and reliability of such information / opinions / views. While due care has been taken to ensure that the disclosures and opinions given are fair and reasonable, none of the directors, employees, affiliates or representatives of ARSSBL shall be liable for any direct, indirect, special, incidental, consequential, punitive or exemplary damages, including lost profits arising in any way whatsoever from the information / opinions / views contained in this Report. The price and value of the investments referred to in this Report 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. ARSSBL does not provide tax advice to its clients, and all investors are strongly advised to consult with their tax advisers regarding taxation aspects of any potential investment.

Opinions expressed are our current opinions as of the date appearing on this Research only. We do not undertake to advise you as to any change of our views expressed in this Report. Research Report may differ between ARSSBL's RAs and/ or ARSSBL's associate companies on account of differences in research methodology, personal judgment and difference in time horizons for which recommendations are made. User should keep this risk in mind and not hold ARSSBL, its employees and associates responsible for any losses, damages of any type whatsoever.

ARSSBL and its associates or employees may; (a) from time to time, have long or short positions in, and buy or sell the investments in/ security of company (ies) mentioned herein or (b) be engaged in any other transaction involving such investments/ securities of company (ies) discussed herein or act as advisor or lender / borrower to such company (ies) these and other activities of ARSSBL and its associates or employees may not be construed as potential conflict of interest with respect to any recommendation and related information and opinions. Without limiting any of the foregoing, in no event shall ARSSBL and its associates or employees or any third party involved in, or related to computing or compiling the information have any liability for any damages of any kind.

Details of Associates of ARSSBL and Brief History of Disciplinary action by regulatory authorities & its associates are available on our website i.e. www.rathionline.com

Disclaimers in respect of jurisdiction: 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 ARSSBL to any registration or licensing requirement within such jurisdiction(s). No action has been or will be taken by ARSSBL in any jurisdiction (other than India), where any action for such purpose(s) is required. Accordingly, this Report shall not be possessed, circulated and/or distributed in any such country or jurisdiction unless such action is in compliance with all applicable laws and regulations of such country or jurisdiction. ARSSBL requires such recipient to inform himself about and to observe any restrictions at his own expense, without any liability to ARSSBL. Any dispute arising out of this Report shall be subject to the exclusive jurisdiction of the Courts in India.

Statements on ownership and material conflicts of interest, compensation - ARSSBL and Associates

Answers to the Best of the knowledge and belief of ARSSBL/ its Associates/ Research Analyst who is preparing this report

Research analyst or research entity or his associate or his relative has any financial interest in the subject company and the nature of such financial interest.	No
ARSSBL/its Associates/ Research Analyst/ his Relative have actual/beneficial ownership of one per cent or more securities of the subject company, at the end of the month immediately preceding the date of publication of the research report?	No
ARSSBL/its Associates/ Research Analyst/ his Relative have actual/beneficial ownership of one per cent or more securities of the subject company	No
ARSSBL/its Associates/ Research Analyst/ his Relative have any other material conflict of interest at the time of publication of the research report?	No
ARSSBL/its Associates/ Research Analyst/ his Relative have received any compensation from the subject company in the past twelve months	No
ARSSBL/its Associates/ Research Analyst/ his Relative have managed or co-managed public offering of securities for the subject company in the past twelve months	No
ARSSBL/its Associates/ Research Analyst/ his Relative have received any compensation for investment banking or merchant banking or brokerage services from the subject company in the past twelve months	No
ARSSBL/its Associates/ Research Analyst/ his Relative 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
ARSSBL/its Associates/ Research Analyst/ his Relative have received any compensation or other benefits from the subject company or third party in connection with the research report	No
ARSSBL/its Associates/ Research Analyst/ his Relative have served as an officer, director or employee of the subject company.	No

Other Disclosures pertaining to distribution of research in the United States of America

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

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

1. ARSSBL or its Affiliates may or may not have been beneficial owners of the securities mentioned in this report.
2. ARSSBL or its affiliates may have or not managed or co-managed a public offering of the securities mentioned in the report in the past 12 months.
3. ARSSBL or its affiliates may have or not received compensation for investment banking services from the issuer of these securities in the past 12 months and do not expect to receive compensation for investment banking services from the issuer of these securities within the next three months.
4. However, one or more of ARSSBL or its Affiliates may, from time to time, have a long or short position in any of the securities mentioned herein and may buy or sell those securities or options thereon, either on their own account or on behalf of their clients.
5. As of the publication of this report, ARSSBL does not make a market in the subject securities.
6. ARSSBL or its Affiliates may or may not, to the extent permitted by law, act upon or use the above material or the conclusions stated above, or the research or analysis on which they are based before the material is published to recipients and from time to time, provide investment banking, investment management or other services for or solicit to seek to obtain investment banking, or other securities business from, any entity referred to in this report.

© 2019. This report is strictly confidential and is being furnished to you solely for your information. All material presented in this report, unless specifically indicated otherwise, is under copyright to ARSSBL. None of the material, its content, or any copy of such material or content, may be altered in any way, transmitted, copied or reproduced (in whole or in part) or redistributed in any form to any other party, without the prior express written permission of ARSSBL. All trademarks, service marks and logos used in this report are trademarks or service marks or registered trademarks or service marks of ARSSBL or its affiliates, unless specifically mentioned otherwise.

Additional information on recommended securities/instruments is available on request.

ARSSBL registered address: Express Zone, A Wing, 9th Floor, Western Express Highway, Diagonally Opposite Oberoi Mall, Malad (E), Mumbai – 400097.
Tel No: +91 22 6281 7000 | Fax No: +91 22 4001 3770 | CIN: U67120MH1991PLC064106.