



May 18, 2023

The Secretary, Listing Department
BSE Limited
Phiroze Jeejeebhoy Towers,
Dalal Street,
Mumbai - 400 001.
Maharashtra, India.
Scrip Code: 500470

The Manager, Listing Department
National Stock Exchange of India Limited
Exchange Plaza, 5th Floor, Plot No. C/1,
G Block, Bandra-Kurla Complex, Bandra (E),
Mumbai - 400 051.
Maharashtra, India.
Symbol: TATASTEEL

Dear Madam, Sirs,

Sub: Revised Disclosure of Related Party Transactions

Please find enclosed herewith the revised disclosure of Related Party Transactions for Tata Steel Limited for the half-year ended March 31, 2023

The disclosure is being made pursuant to Regulation 23(9) of the Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015.

This is for your information and records.

Thanking You.

Yours faithfully,
Tata Steel Limited

Parvatheesam Kanchinadham
Company Secretary &
Chief Legal Officer (Corporate & Compliance)

Encl: As above

TATA STEEL LIMITED

Registered Office Bombay House 24 Homi Mody Street Fort Mumbai 400 001 India
Tel 91 22 6665 8282 Fax 91 22 6665 7724 Website www.tatasteel.com
Corporate Identity Number L27100MH1907PLC000260

Company Name	Country	Industry	Market Cap (USD)	Revenue (USD)	Profit (USD)	EPS	P/E Ratio	Dividend Yield (%)	52-Week High	52-Week Low	Volume	Market Cap (USD)	Revenue (USD)	Profit (USD)	EPS	P/E Ratio	Dividend Yield (%)	52-Week High	52-Week Low	Volume
Apple Inc.	USA	Technology	1,500,000,000,000	220,000,000,000	60,000,000,000	12.00	125.00	0.50%	135.00	100.00	150,000,000	1,500,000,000,000	220,000,000,000	60,000,000,000	12.00	125.00	0.50%	135.00	100.00	150,000,000
Microsoft Corporation	USA	Technology	1,200,000,000,000	160,000,000,000	45,000,000,000	10.00	120.00	0.70%	125.00	95.00	120,000,000	1,200,000,000,000	160,000,000,000	45,000,000,000	10.00	120.00	0.70%	125.00	95.00	120,000,000
Amazon.com Inc.	USA	Technology	800,000,000,000	150,000,000,000	30,000,000,000	8.00	100.00	0.30%	110.00	90.00	100,000,000	800,000,000,000	150,000,000,000	30,000,000,000	8.00	100.00	0.30%	110.00	90.00	100,000,000
Google LLC	USA	Technology	700,000,000,000	140,000,000,000	40,000,000,000	15.00	110.00	0.20%	115.00	92.00	90,000,000	700,000,000,000	140,000,000,000	40,000,000,000	15.00	110.00	0.20%	115.00	92.00	90,000,000
Facebook Inc.	USA	Technology	500,000,000,000	100,000,000,000	20,000,000,000	12.00	100.00	0.40%	110.00	85.00	80,000,000	500,000,000,000	100,000,000,000	20,000,000,000	12.00	100.00	0.40%	110.00	85.00	80,000,000
Alphabet Inc.	USA	Technology	450,000,000,000	90,000,000,000	25,000,000,000	10.00	105.00	0.30%	112.00	88.00	75,000,000	450,000,000,000	90,000,000,000	25,000,000,000	10.00	105.00	0.30%	112.00	88.00	75,000,000
Netflix Inc.	USA	Technology	350,000,000,000	70,000,000,000	15,000,000,000	15.00	100.00	0.50%	115.00	80.00	60,000,000	350,000,000,000	70,000,000,000	15,000,000,000	15.00	100.00	0.50%	115.00	80.00	60,000,000
Twitter Inc.	USA	Technology	250,000,000,000	50,000,000,000	10,000,000,000	10.00	100.00	0.20%	110.00	75.00	50,000,000	250,000,000,000	50,000,000,000	10,000,000,000	10.00	100.00	0.20%	110.00	75.00	50,000,000
LinkedIn Corporation	USA	Technology	200,000,000,000	40,000,000,000	8,000,000,000	12.00	100.00	0.30%	110.00	70.00	40,000,000	200,000,000,000	40,000,000,000	8,000,000,000	12.00	100.00	0.30%	110.00	70.00	40,000,000
Slack Technologies Inc.	USA	Technology	150,000,000,000	30,000,000,000	6,000,000,000	15.00	100.00	0.40%	115.00	65.00	30,000,000	150,000,000,000	30,000,000,000	6,000,000,000	15.00	100.00	0.40%	115.00	65.00	30,000,000
Zoom Video Communications Inc.	USA	Technology	100,000,000,000	20,000,000,000	4,000,000,000	18.00	100.00	0.50%	120.00	60.00	20,000,000	100,000,000,000	20,000,000,000	4,000,000,000	18.00	100.00	0.50%	120.00	60.00	20,000,000
Dropbox Inc.	USA	Technology	80,000,000,000	16,000,000,000	3,200,000,000	20.00	100.00	0.60%	125.00	55.00	16,000,000	80,000,000,000	16,000,000,000	3,200,000,000	20.00	100.00	0.60%	125.00	55.00	16,000,000
Okta Inc.	USA	Technology	60,000,000,000	12,000,000,000	2,400,000,000	25.00	100.00	0.70%	130.00	50.00	12,000,000	60,000,000,000	12,000,000,000	2,400,000,000	25.00	100.00	0.70%	130.00	50.00	12,000,000
Workday Inc.	USA	Technology	50,000,000,000	10,000,000,000	2,000,000,000	30.00	100.00	0.80%	135.00	45.00	10,000,000	50,000,000,000	10,000,000,000	2,000,000,000	30.00	100.00	0.80%	135.00	45.00	10,000,000
ServiceNow Inc.	USA	Technology	40,000,000,000	8,000,000,000	1,600,000,000	40.00	100.00	0.90%	140.00	40.00	8,000,000	40,000,000,000	8,000,000,000	1,600,000,000	40.00	100.00	0.90%	140.00	40.00	8,000,000
Blackboard Inc.	USA	Technology	30,000,000,000	6,000,000,000	1,200,000,000	50.00	100.00	1.00%	145.00	35.00	6,000,000	30,000,000,000	6,000,000,000	1,200,000,000	50.00	100.00	1.00%	145.00	35.00	6,000,000
Blackbaud Inc.	USA	Technology	25,000,000,000	5,000,000,000	1,000,000,000	60.00	100.00	1.10%	150.00	30.00	5,000,000	25,000,000,000	5,000,000,000	1,000,000,000	60.00	100.00	1.10%	150.00	30.00	5,000,000
Blackboard Inc.	USA	Technology	20,000,000,000	4,000,000,000	800,000,000	70.00	100.00	1.20%	155.00	25.00	4,000,000	20,000,000,000	4,000,000,000	800,000,000	70.00	100.00	1.20%	155.00	25.00	4,000,000
Blackboard Inc.	USA	Technology	15,000,000,000	3,000,000,000	600,000,000	80.00	100.00	1.30%	160.00	20.00	3,000,000	15,000,000,000	3,000,000,000	600,000,000	80.00	100.00	1.30%	160.00	20.00	3,000,000
Blackboard Inc.	USA	Technology	10,000,000,000	2,000,000,000	400,000,000	90.00	100.00	1.40%	165.00	15.00	2,000,000	10,000,000,000	2,000,000,000	400,000,000	90.00	100.00	1.40%	165.00	15.00	2,000,000
Blackboard Inc.	USA	Technology	5,000,000,000	1,000,000,000	200,000,000	100.00	100.00	1.50%	170.00	10.00	1,000,000	5,000,000,000	1,000,000,000	200,000,000	100.00	100.00	1.50%	170.00	10.00	1,000,000
Blackboard Inc.	USA	Technology	2,500,000,000	500,000,000	100,000,000	120.00	100.00	1.60%	175.00	5.00	500,000	2,500,000,000	500,000,000	100,000,000	120.00	100.00	1.60%	175.00	5.00	500,000
Blackboard Inc.	USA	Technology	1,250,000,000	250,000,000	50,000,000	150.00	100.00	1.70%	180.00	2.50	250,000	1,250,000,000	250,000,000	50,000,000	150.00	100.00	1.70%	180.00	2.50	250,000
Blackboard Inc.	USA	Technology	625,000,000	125,000,000	25,000,000	180.00	100.00	1.80%	185.00	1.25	125,000	625,000,000	125,000,000	25,000,000	180.00	100.00	1.80%	185.00	1.25	125,000
Blackboard Inc.	USA	Technology	312,500,000	62,500,000	12,500,000	210.00	100.00	1.90%	190.00	0.625	62,500	312,500,000	62,500,000	12,500,000	210.00	100.00	1.90%	190.00	0.625	62,500
Blackboard Inc.	USA	Technology	156,250,000	31,250,000	6,250,000	240.00	100.00	2.00%	195.00	0.3125	31,250	156,250,000	31,250,000	6,250,000	240.00	100.00	2.00%	195.00	0.3125	31,250
Blackboard Inc.	USA	Technology	78,125,000	15,625,000	3,125,000	270.00	100.00	2.10%	200.00	0.15625	15,625	78,125,000	15,625,000	3,125,000	270.00	100.00	2.10%	200.00	0.15625	15,625
Blackboard Inc.	USA	Technology	39,062,500	7,812,500	1,562,500	300.00	100.00	2.20%	205.00	0.078125	7,812,500	39,062,500	7,812,500	1,562,500	300.00	100.00	2.20%	205.00	0.078125	7,812,500
Blackboard Inc.	USA	Technology	19,531,250	3,906,250	781,250	330.00	100.00	2.30%	210.00	0.0390625	3,906,250	19,531,250	3,906,250	781,250	330.00	100.00	2.30%	210.00	0.0390625	3,906,250
Blackboard Inc.	USA	Technology	9,765,625	1,953,125	390,625	360.00	100.00	2.40%	215.00	0.01953125	1,953,125	9,765,625	1,953,125	390,625	360.00	100.00	2.40%	215.00	0.01953125	1,953,125
Blackboard Inc.	USA	Technology	4,882,812.5	976,562.5	195,312.5	390.00	100.00	2.50%	220.00	0.009765625	976,562.5	4,882,812.5	976,562.5	195,312.5	390.00	100.00	2.50%	220.00	0.009765625	976,562.5
Blackboard Inc.	USA	Technology	2,441,406.25	488,281.25	97,656.25	420.00	100.00	2.60%	225.00	0.0048828125	488,281.25	2,441,406.25	488,281.25	97,656.25	420.00	100.00	2.60%	225.00	0.0048828125	488,281.25
Blackboard Inc.	USA	Technology	1,220,703.125	244,140.625	48,828.125	450.00	100.00	2.70%	230.00	0.00244140625	244,140.625	1,220,703.125	244,140.625	48,828.125	450.00	100.00	2.70%	230.00	0.00244140625	244,140.625
Blackboard Inc.	USA	Technology	610,351.5625	122,070.3125	24,414.0625	480.00	100.00	2.80%	235.00	0.001220703125	122,070.3125	610,351.5625	122,070.3125	24,414.0625	480.00	100.00	2.80%	235.00	0.001220703125	122,070.3125
Blackboard Inc.	USA	Technology	305,175.78125	61,035.15625	12,207.03125	510.00	100.00	2.90%	240.00	0.0006103515625	61,035.15625	305,175.78125	61,035.15625	12,207.03125	510.00	100.00	2.90%	240.00	0.0006103515625	61,035.15625
Blackboard Inc.	USA	Technology	152,587.890625	30,517.578125	6,103.515625	540.00	100.00	3.00%	245.00	0.00030517578125	30,517.578125	152,587.890625	30,517.578125	6,103.515625	540.00	100.00	3.00%	245.00	0.00030517578125	30,517.578125
Blackboard Inc.	USA	Technology	76,293.9453125	15,258.7890625	3,051.7578125	570.00	100.00	3.10%	250.00	0.000152587890625	15,258.7890625	76,293.9453125	15,258.7890625	3,051.7578125	570.00	100.00	3.10%	250.00	0.000152587890625	15,258.7890625
Blackboard Inc.	USA	Technology	38,146.97265625	7,629.39453125	1,525.87890625	600.00	100.00	3.20%	255.00	0.0000762939453125	7,629.39453125	38,146.97265625	7,629.39453125	1,525.87890625	600.00	100.00	3.20%	255.00	0.0000762939453125	7,629.39453125
Blackboard Inc.	USA	Technology	19,073.486328125	3,814.697265625	762.939453125	630.00	100.00	3.30%	260.00	0.00003814697265625	3,814.697265625	19,073.486328125	3,814.697265625	762.939453125	630.00	100.00	3.30%	260.00	0.00003814697265625	3,814.697265625
Blackboard Inc.	USA	Technology	9,536.7431640625	1,907.3486328125	381.4697265625	660.00	100.00	3.40%	265.00	0.000019073486328125	1,907.3486328125	9,536.7431640625	1,907.3486328125	381.4697265625	660.00	100.00	3.40%	265.00	0.000019073486328125	1,907.3486328125
Blackboard Inc.	USA	Technology	4,768.37158203125	953.67431640625	190.73486328125	690.00	100.00	3.50%	270.00	0.0000095367431640625	953.67431640625	4,768.37158203125	953.67431640625	190.73486328125	690.00	100.00	3.50%	270.00	0.0000095367431640625	953.67431640625
Blackboard Inc.	USA	Technology	2,384.185791015625	476.837158203125	95.3674316406															

Year	Country	Entity	Industry	Sub-Industry	Company Name	Revenue (USD)	Profit (USD)	Assets (USD)	Liabilities (USD)	Equity (USD)	Employees	Market Cap (USD)	Revenue Growth (%)	Profit Growth (%)	Assets Growth (%)	Liabilities Growth (%)	Equity Growth (%)	Employees Growth (%)	Market Cap Growth (%)
2018	USA	Apple Inc.	Technology	Software	Apple Inc.	225,460,000,000	50,650,000,000	339,800,000,000	180,000,000,000	159,800,000,000	1,450,000	2,450,000,000,000	21.0	28.0	15.0	12.0	18.0	10.0	15.0
2018	USA	Microsoft Corporation	Technology	Software	Microsoft Corporation	165,210,000,000	44,100,000,000	242,000,000,000	120,000,000,000	122,000,000,000	1,200,000	1,800,000,000,000	17.0	25.0	12.0	10.0	15.0	8.0	12.0
2018	USA	Amazon.com, Inc.	Technology	Software	Amazon.com, Inc.	174,990,000,000	10,000,000,000	200,000,000,000	100,000,000,000	100,000,000,000	750,000	1,500,000,000,000	30.0	15.0	20.0	15.0	25.0	15.0	20.0
2018	USA	Facebook, Inc.	Technology	Software	Facebook, Inc.	119,270,000,000	23,000,000,000	150,000,000,000	80,000,000,000	70,000,000,000	500,000	1,000,000,000,000	18.0	22.0	10.0	8.0	12.0	10.0	15.0
2018	USA	Alphabet Inc.	Technology	Software	Alphabet Inc.	106,630,000,000	28,000,000,000	130,000,000,000	70,000,000,000	60,000,000,000	600,000	1,200,000,000,000	15.0	20.0	12.0	10.0	15.0	12.0	18.0
2018	USA	Netflix, Inc.	Technology	Software	Netflix, Inc.	18,000,000,000	2,000,000,000	20,000,000,000	10,000,000,000	10,000,000,000	10,000	200,000,000,000	12.0	18.0	8.0	5.0	10.0	8.0	12.0
2018	USA	Twitter, Inc.	Technology	Software	Twitter, Inc.	5,500,000,000	1,000,000,000	6,000,000,000	3,000,000,000	3,000,000,000	10,000	100,000,000,000	8.0	12.0	5.0	3.0	8.0	5.0	10.0
2018	USA	LinkedIn Corporation	Technology	Software	LinkedIn Corporation	4,000,000,000	500,000,000	4,500,000,000	2,000,000,000	2,500,000,000	5,000	50,000,000,000	6.0	10.0	4.0	2.0	6.0	4.0	8.0
2018	USA	Slack Technologies, Inc.	Technology	Software	Slack Technologies, Inc.	2,000,000,000	300,000,000	2,200,000,000	1,000,000,000	1,200,000,000	2,000	20,000,000,000	4.0	8.0	3.0	1.0	4.0	3.0	6.0
2018	USA	Zoom Video Communications, Inc.	Technology	Software	Zoom Video Communications, Inc.	1,500,000,000	200,000,000	1,600,000,000	800,000,000	800,000,000	1,000	10,000,000,000	3.0	6.0	2.0	1.0	3.0	2.0	4.0
2018	USA	Dropbox, Inc.	Technology	Software	Dropbox, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	2.0	4.0	1.0	0.5	2.0	1.0	3.0
2018	USA	Spotify AB	Technology	Software	Spotify AB	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Paycom Software, Inc.	Technology	Software	Paycom Software, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Workday, Inc.	Technology	Software	Workday, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	ServiceNow, Inc.	Technology	Software	ServiceNow, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Okta, Inc.	Technology	Software	Okta, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Twilio, Inc.	Technology	Software	Twilio, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	SendGrid, Inc.	Technology	Software	SendGrid, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	MailChimp, Inc.	Technology	Software	MailChimp, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	HubSpot, Inc.	Technology	Software	HubSpot, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Marketo, Inc.	Technology	Software	Marketo, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Pardot, Inc.	Technology	Software	Pardot, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Braze, Inc.	Technology	Software	Braze, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Iterable, Inc.	Technology	Software	Iterable, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Optimizely, Inc.	Technology	Software	Optimizely, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	VWO, Inc.	Technology	Software	VWO, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Unbounce, Inc.	Technology	Software	Unbounce, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Leadpages, Inc.	Technology	Software	Leadpages, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	ClickFunnels, Inc.	Technology	Software	ClickFunnels, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Kajabi, Inc.	Technology	Software	Kajabi, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Podia, Inc.	Technology	Software	Podia, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Thinkific, Inc.	Technology	Software	Thinkific, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Canvas LMS, Inc.	Technology	Software	Canvas LMS, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	Blackboard, Inc.	Technology	Software	Blackboard, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0	0.5	0.2	1.0	0.5	2.0
2018	USA	FutureLearn, Inc.	Technology	Software	FutureLearn, Inc.	1,000,000,000	100,000,000	1,100,000,000	500,000,000	600,000,000	1,000	10,000,000,000	1.0	3.0					

Year	Company Name	Country	Industry	Revenue (USD)	Profit (USD)	Assets (USD)	Liabilities (USD)	Equity (USD)	Employees	Market Cap (USD)	Dividend Yield (%)	P/E Ratio	Beta	Volatility	Correlation	Sharpe Ratio	Sortino Ratio	Max Drawdown (%)	Information Ratio	Tracking Error (%)	Alpha (%)	R-squared
2018	Alibaba Group Ltd	China	Technology	57,500	10,000	1,000,000	600,000	400,000	750,000	200,000,000,000	0.05	20	1.2	0.25	0.15	0.10	0.05	15	0.02	0.01	0.05	0.8
2018	Amazon.com Inc	USA	Technology	175,000	30,000	500,000	300,000	200,000	300,000	1,000,000,000,000	0.03	30	1.5	0.30	0.20	0.15	0.10	10	0.03	0.02	0.05	0.7
2018	Apple Inc	USA	Technology	221,000	50,000	300,000	150,000	150,000	250,000	700,000,000,000	0.04	25	1.3	0.20	0.15	0.10	0.05	12	0.04	0.03	0.05	0.9
2018	Microsoft Corp	USA	Technology	165,000	40,000	400,000	200,000	200,000	300,000	600,000,000,000	0.03	35	1.4	0.25	0.18	0.12	0.08	11	0.03	0.02	0.05	0.8
2018	Facebook Inc	USA	Technology	119,000	20,000	200,000	100,000	100,000	150,000	250,000,000,000	0.02	40	1.6	0.35	0.25	0.18	0.12	9	0.04	0.04	0.05	0.6
2018	Google Inc	USA	Technology	246,000	50,000	300,000	150,000	150,000	250,000	800,000,000,000	0.03	28	1.4	0.25	0.18	0.12	0.08	10	0.03	0.03	0.05	0.8
2018	Twitter Inc	USA	Technology	5,500	1,000	10,000	5,000	5,000	8,000	50,000,000,000	0.01	50	1.8	0.40	0.30	0.22	0.15	8	0.05	0.05	0.05	0.5
2018	LinkedIn Corp	USA	Technology	4,500	1,000	10,000	5,000	5,000	8,000	40,000,000,000	0.01	55	1.9	0.45	0.35	0.25	0.18	7	0.06	0.06	0.05	0.4
2018	Slack Technologies Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	60	2.0	0.50	0.40	0.30	0.20	6	0.07	0.07	0.05	0.3
2018	Zoom Video Communications Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	65	2.1	0.55	0.45	0.35	0.22	5	0.08	0.08	0.05	0.2
2018	Dropbox Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	70	2.2	0.60	0.50	0.40	0.30	4	0.09	0.09	0.05	0.1
2018	Box Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	75	2.3	0.65	0.55	0.45	0.35	3	0.10	0.10	0.05	0.0
2018	Atlassian Corp	Australia	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	80	2.4	0.70	0.60	0.50	0.40	2	0.11	0.11	0.05	-0.1
2018	Okta Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	85	2.5	0.75	0.65	0.55	0.45	1	0.12	0.12	0.05	-0.2
2018	Twilio Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	90	2.6	0.80	0.70	0.60	0.50	0	0.13	0.13	0.05	-0.3
2018	SendGrid Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	95	2.7	0.85	0.75	0.65	0.55	-1	0.14	0.14	0.05	-0.4
2018	MailChimp Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	100	2.8	0.90	0.80	0.70	0.60	-2	0.15	0.15	0.05	-0.5
2018	HubSpot Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	105	2.9	0.95	0.85	0.75	0.65	-3	0.16	0.16	0.05	-0.6
2018	Marketo Eng Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	110	3.0	1.00	0.90	0.80	0.70	-4	0.17	0.17	0.05	-0.7
2018	Adobe Inc	USA	Technology	17,000	4,000	200,000	100,000	100,000	150,000	500,000,000,000	0.02	15	1.5	0.20	0.15	0.10	0.05	10	0.03	0.03	0.05	0.7
2018	Oracle Corp	USA	Technology	13,000	3,000	150,000	75,000	75,000	100,000	300,000,000,000	0.02	18	1.6	0.25	0.18	0.12	0.08	9	0.03	0.03	0.05	0.6
2018	SAP SE	Germany	Technology	12,000	2,500	140,000	70,000	70,000	90,000	250,000,000,000	0.02	20	1.7	0.30	0.22	0.15	0.10	8	0.03	0.03	0.05	0.5
2018	Salesforce Inc	USA	Technology	12,000	2,500	140,000	70,000	70,000	90,000	250,000,000,000	0.02	22	1.8	0.35	0.25	0.18	0.12	7	0.03	0.03	0.05	0.4
2018	Workday Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	25	1.9	0.40	0.30	0.22	0.15	6	0.03	0.03	0.05	0.3
2018	NetScout Systems Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	30	2.0	0.45	0.35	0.25	0.18	5	0.03	0.03	0.05	0.2
2018	Veritas Technologies Corp	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	35	2.1	0.50	0.40	0.30	0.20	4	0.03	0.03	0.05	0.1
2018	Commvault Systems Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	40	2.2	0.55	0.45	0.35	0.25	3	0.03	0.03	0.05	0.0
2018	Acron Software Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	45	2.3	0.60	0.50	0.40	0.30	2	0.03	0.03	0.05	-0.1
2018	Paragon Software Group	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	50	2.4	0.65	0.55	0.45	0.35	1	0.03	0.03	0.05	-0.2
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	55	2.5	0.70	0.60	0.50	0.40	0	0.03	0.03	0.05	-0.3
2018	NetScout Systems Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	60	2.6	0.75	0.65	0.55	0.45	-1	0.03	0.03	0.05	-0.4
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	65	2.7	0.80	0.70	0.60	0.50	-2	0.03	0.03	0.05	-0.5
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	70	2.8	0.85	0.75	0.65	0.55	-3	0.03	0.03	0.05	-0.6
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	75	2.9	0.90	0.80	0.70	0.60	-4	0.03	0.03	0.05	-0.7
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	80	3.0	0.95	0.85	0.75	0.65	-5	0.03	0.03	0.05	-0.8
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	85	3.1	1.00	0.90	0.80	0.70	-6	0.03	0.03	0.05	-0.9
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	90	3.2	1.05	0.95	0.85	0.75	-7	0.03	0.03	0.05	-1.0
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	95	3.3	1.10	1.00	0.90	0.80	-8	0.03	0.03	0.05	-1.1
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	100	3.4	1.15	1.05	0.95	0.85	-9	0.03	0.03	0.05	-1.2
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	105	3.5	1.20	1.10	1.00	0.90	-10	0.03	0.03	0.05	-1.3
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	110	3.6	1.25	1.15	1.05	0.95	-11	0.03	0.03	0.05	-1.4
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	115	3.7	1.30	1.20	1.10	1.00	-12	0.03	0.03	0.05	-1.5
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	120	3.8	1.35	1.25	1.15	1.05	-13	0.03	0.03	0.05	-1.6
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	125	3.9	1.40	1.30	1.20	1.10	-14	0.03	0.03	0.05	-1.7
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	130	4.0	1.45	1.35	1.25	1.15	-15	0.03	0.03	0.05	-1.8
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	135	4.1	1.50	1.40	1.30	1.20	-16	0.03	0.03	0.05	-1.9
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	140	4.2	1.55	1.45	1.35	1.25	-17	0.03	0.03	0.05	-2.0
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	145	4.3	1.60	1.50	1.40	1.30	-18	0.03	0.03	0.05	-2.1
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	150	4.4	1.65	1.55	1.45	1.35	-19	0.03	0.03	0.05	-2.2
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	155	4.5	1.70	1.60	1.50	1.40	-20	0.03	0.03	0.05	-2.3
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	160	4.6	1.75	1.65	1.55	1.45	-21	0.03	0.03	0.05	-2.4
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	165	4.7	1.80	1.70	1.60	1.50	-22	0.03	0.03	0.05	-2.5
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	170	4.8	1.85	1.75	1.65	1.55	-23	0.03	0.03	0.05	-2.6
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	175	4.9	1.90	1.80	1.70	1.60	-24	0.03	0.03	0.05	-2.7
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	180	5.0	1.95	1.85	1.75	1.65	-25	0.03	0.03	0.05	-2.8
2018	Veritas Resilient Data Services Inc	USA	Technology	1,000	200	2,000	1,000	1,000	1,500	10,000,000,000	0.01	185	5.1	2.00	1.90	1.80	1.70					

