

Tata Steel Limited (Standalone), Tata Steel Long Products Limited, Tata Steel Nederland BV, Tata Steel UK Limited and Tata Steel (Thailand) PCL account for ~ 90% of our global group turnover. This Factsheet represents our ESG performance for these entities.

	UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
<b>Basic information</b>						
<b>Crude Steel Production</b>						
Tata Steel Limited (Standalone)	Million tonnes	13.23	13.16	12.19	18.38	18.97
Tata Steel Long Products Limited	Million tonnes	-	0.59	0.65	0.68	0.71
Neelachal Ispat Nigam Ltd (NINL)	Million tonnes	-	-	-	-	0.20
Tata Steel UK Limited	Million tonnes	3.13	3.38	3.27	3.40	2.93
Tata Steel Nederland BV	Million tonnes	6.90	6.62	6.07	6.45	6.16
Tata Steel (Thailand) PCL	Million tonnes	1.03	0.99	1.09	1.31	1.13
<b>Environmental</b>						
<b>CO<sub>2</sub> emissions- steel plants (worldsteel user guide V9.5, with slag credit)</b>						
<b>Tata Steel Limited (Standalone)<sup>®</sup></b>						
Scope 1	Million tonnes	31.7	31.1	29.4	46.2	46.3
Scope 2	Million tonnes	1.2	1.1	1.0	1.7	1.7
Scope 3	Million tonnes	-1.8	-1.8	-2.0	-3.2	-3.0 <sup>#</sup>
Scope 1 +2 + 3	Million tonnes	31.0	30.4	28.3	44.7	45.0
CO <sub>2</sub> emissions intensity	tCO <sub>2</sub> /tcs	2.35	2.31	2.32	2.43	2.38 <sup>#</sup>
<b>Tata Steel Long Products Limited (including NINL)<sup>®</sup></b>						
Scope 1	Million tonnes	-	3.0	3.1	3.2	4.1
Scope 2	Million tonnes	-	0.0	0.0	0.0	0.1
Scope 3 (Gamharia)	Million tonnes	-	-	-	-	-0.3 <sup>#</sup>
Scope 3 (Gamharia & NINL)	Million tonnes	-	-0.3	-0.4	-0.3	-0.6
Scope 1 +2 + 3 (Gamharia & NINL)	Million tonnes	-	2.7	2.8	3.0	3.6
CO <sub>2</sub> emissions intensity (Gamharia)	tCO <sub>2</sub> /tcs	-	-	-	-	4.01 <sup>#</sup>
CO <sub>2</sub> emissions intensity (Gamharia & NINL)	tCO <sub>2</sub> /tcs	-	4.52	4.29	4.39	3.86
<b>Tata Steel UK Limited<sup>®</sup></b>						
Scope 1	Million tonnes	6.4	7.1	6.5	6.9	5.7
Scope 2	Million tonnes	0.4	0.4	0.3	0.4	0.2
Scope 3	Million tonnes	0.5	0.5	0.5	0.4	0.1 <sup>#</sup>
Scope 1 +2 + 3	Million tonnes	7.4	8.0	7.3	7.7	6.0
CO <sub>2</sub> emissions intensity	tCO <sub>2</sub> /tcs	2.21	2.22	2.14	2.16	2.05 <sup>#</sup>
<b>Tata Steel Nederland BV<sup>®</sup></b>						
Scope 1	Million tonnes	12.5	11.8	10.9	11.6	10.9
Scope 2	Million tonnes	-0.2	-0.1	-0.1	-0.1	-0.3
Scope 3	Million tonnes	0.1	0.2	0.2	0.3	0.3 <sup>#</sup>
Scope 1 +2 + 3	Million tonnes	12.4	11.9	11.0	11.7	10.9
CO <sub>2</sub> emissions intensity	tCO <sub>2</sub> /tcs	1.77	1.76	1.78	1.78	1.78 <sup>#</sup>
<b>Tata Steel (Thailand) PCL<sup>®</sup></b>						
Scope 1	Million tonnes	0.2	0.2	0.2	0.2	0.2
Scope 2	Million tonnes	0.4	0.4	0.4	0.5	0.4
Scope 3	Million tonnes	0.1	0.1	0.1	0.1	0.1
Scope 1 +2 + 3	Million tonnes	0.7	0.7	0.7	0.8	0.7
CO <sub>2</sub> emissions intensity	tCO <sub>2</sub> /tcs	0.64	0.67	0.64	0.61	0.59
Tata Steel Consolidated (with slag credit)	tCO <sub>2</sub> /tcs	-	-	2.20	2.19	2.21
<b>GHG emissions (based on GHG protocol, in Million tCO<sub>2</sub>e)</b>						
<b>Tata Steel Limited (Standalone)</b>						
Absolute emissions - Scope 1 for steel making sites	Million tonnes	-	-	-	-	47.1 <sup>#</sup>
Absolute emissions -Scope 1 for all sites	Million tonnes	-	-	32.5	49.2	49.6
Absolute emissions - Scope 2 for steel making sites	Million tonnes	-	-	-	-	4.63 <sup>#</sup>
Absolute emissions - Scope 2 for all sites	Million tonnes	-	-	3.9	5.4	5.6
Absolute emissions - Scope 3	Million tonnes	-	-	5.2	5.9	5.7
Total absolute emissions (Scope 1 +2 + 3) for all sites	Million tonnes	-	-	41.5	60.5	61.0
<b>Tata Steel Long Products Limited including NINL</b>						
Absolute emissions - Scope 1 for steel making sites	Million tonnes	-	-	-	-	3.18 <sup>#</sup>
Absolute emissions -Scope 1 for all sites	Million tonnes	-	-	3.9	4.1	4.9 <sup>(1)</sup>

<sup>#</sup> KPIs assured by Price Waterhouse & Co. Chartered Accountants LLP

	UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
Absolute emissions - Scope 2 for steel making sites	Million tonnes	-	-	-	-	0.04 <sup>#</sup>
Absolute emissions - Scope 2 for all sites	Million tonnes	-	-	0.0	0.0	0.1
Absolute emissions - Scope 3	Million tonnes	-	-	0.6	0.6	0.9
Total absolute emissions (Scope 1 +2 + 3) for all sites	Million tonnes	-	-	4.5	4.8	6.0
<b>Tata Steel UK Limited</b>						
Absolute emissions - Scope 1 for steel making sites*	Million tonnes	-	-	-	-	5.69 <sup>#</sup>
Absolute emissions -Scope 1 for all sites	Million tonnes	-	-	6.6	6.8	6.0
Absolute emissions - Scope 2 for steel making sites	Million tonnes	-	-	-	-	0.07 <sup>#</sup>
Absolute emissions - Scope 2 for all sites	Million tonnes	-	-	0.2	0.2	0.1
Absolute emissions - Scope 3	Million tonnes	-	-	1.0	1.9	1.7
Total absolute emissions (Scope 1 +2 + 3) for all sites	Million tonnes	-	-	7.7	9.0	7.9

<sup>(1)</sup> Increased due to restart of newly acquired NINL

<sup>#</sup>KPIs assured by Price Waterhouse & Co. Chartered Accountants LLP

<b>Tata Steel Nederland BV</b>						
Absolute emissions - Scope 1 for steel making sites*	Million tonnes	-	-	-	-	10.93 <sup>#</sup>
Absolute emissions -Scope 1 for all sites	Million tonnes	-	-	-	11.7	11.2
Absolute emissions - Scope 2 for steel making sites	Million tonnes	-	-	-	-	0.0 <sup>#</sup>
Absolute emissions - Scope 2 for all sites	Million tonnes	-	-	-	0.80	0.60
Absolute emissions - Scope 3	Million tonnes	-	-	-	5.0	3.8
Total absolute emissions (Scope 1 +2 + 3) for all sites	Million tonnes	-	-	-	17.4	15.6
<b>Tata Steel (Thailand) PCL</b>						
Absolute emissions - Scope 1	Million tonnes	-	-	0.2	0.2	0.2
Absolute emissions - Scope 2	Million tonnes	-	-	0.4	0.5	0.5
Absolute emissions - Scope 3	Million tonnes	-	-	0.2	0.2	0.2
Total absolute emissions (Scope 1 +2 + 3)	Million tonnes	-	-	0.8	0.9	0.8
<b>Tata Steel Consolidated (including other entities)</b>						
Absolute emissions - Scope 1	Million tonnes	-	-	66.0	75.7	75.5
Absolute emissions - Scope 2	Million tonnes	-	-	4.8	5.0	5.2
Absolute emissions - Scope 3	Million tonnes	-	-	12.6	13.5	13.1
Total absolute emissions (Scope 1 +2 + 3)	Million tonnes	-	-	83.4	94.2	93.8
Total absolute emissions (Scope 1 +2) per unit revenue	tCO <sub>2</sub> e/Million ₹	-	-	45.2	33.1	33.2

- worldsteel methodology allows credits due to export of various co-products / by-products (incl. process gases). TSUK numbers for FY2022-23 aligned with parent company to include slag credit in the CO<sub>2</sub> intensity calculations. No credits are included in GHG Protocol estimation under Scope 1, 2 and 3.
- Scope 1.1 emissions under worldsteel scope considered direct emissions under Scope 1 for steelmaking sites
- Scope 2 emissions are location based for all entities
- Uncertainty of total emissions < 3%
- Entity-wise data represents absolute gross emissions independent of equity held by Tata Steel. Consolidated emissions of Tata Steel has been arrived at by using equity based approach
- FY2021-22 numbers are updated post verification in July 2022

\* Calculated based only on CO<sub>2</sub> emissions factor. Other gases (CH<sub>4</sub> & N<sub>2</sub>O) to be included in calculations in the future.

<b>Air emissions</b>						
<b>Tata Steel Limited (Standalone)</b>						
<b>For crude steel making sites<sup>®</sup> (A)</b>						
Stack dust emissions	Thousand tonnes	5.59	5.04	4.10	7.22	6.40 <sup>#</sup>
Stack Dust emission intensity	kg/tcs	0.42	0.38	0.34	0.39	0.34 <sup>#</sup>
Stack SOx emissions	Thousand tonnes	7.4	8.6	7.8	30.4	27.0 <sup>#</sup>
SOx emission intensity	kg/tcs	0.56	0.65	0.64	1.66	1.43 <sup>#</sup>
Stack NOx emissions	Thousand tonnes	8.9	8.7	7.5	16.0	15.8 <sup>#</sup>
NOx emission intensity	kg/tcs	0.67	0.66	0.62	0.87	0.83 <sup>#</sup>

<sup>#</sup> KPIs assured by Price Waterhouse & Co. Chartered Accountants LLP

	UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
<b>For non crude steel making sites (B)</b>						
Stack dust emissions	Thousand tonnes	-	0.95	1.11	0.83	0.66
Stack SOx emissions	Thousand tonnes	-	8.1	5.8	5.5	4.3
Stack NOx emissions	Thousand tonnes	-	4.5	3.6	3.3	2.3
<b>Tata Steel Limited Standalone: Total (A+B)</b>						
Stack dust emissions	Thousand tonnes	5.59	5.99	5.21	8.06	7.06
Stack SOx emissions	Thousand tonnes	7.4	16.7	13.6	35.9	31.4
Stack NOx emissions	Thousand tonnes	8.9	13.2	11.2	19.4	18.1
<b>Tata Steel Long Products Limited</b>						
<b>For crude steel making sites<sup>(A)</sup></b>						
Stack dust emissions	Thousand tonnes	-	1.69	1.17	1.03	0.92 <sup>#</sup>
Stack Dust emission intensity	kg/tcs	-	2.86	1.81	1.50	1.30 <sup>#</sup>
Stack SOx emissions	Thousand tonnes	-	5.1	4.9	6.0	6.4 <sup>#</sup>
SOx emission intensity	kg/tcs	-	8.66	7.53	8.79	9.09 <sup>#</sup>
Stack NOx emissions	Thousand tonnes	-	1.0	1.1	1.2	1.2 <sup>#</sup>
NOx emission intensity	kg/tcs	-	1.64	1.67	1.77	1.72 <sup>#</sup>
<b>For non crude steel making sites (B)</b>						
Stack dust emissions	Thousand tonnes	-	-	-	-	0
Stack SOx emissions	Thousand tonnes	-	-	-	-	1
Stack NOx emissions	Thousand tonnes	-	-	-	-	NA
<b>Tata Steel Long Products Limited: Total (A+B)</b>						
Stack dust emissions	Thousand tonnes	-	1.69	1.17	1.03	1.00
Stack SOx emissions	Thousand tonnes	-	5.1	4.9	6.0	7.1
Stack NOx emissions	Thousand tonnes	-	1.0	1.1	1.2	1.2
<b>Tata Steel UK Limited<sup>(CY<sup>2</sup>)<sup>3</sup></sup></b>						
Stack dust emissions	Thousand tonnes	1.07	1.06	1.38	1.16	0.82 <sup>#</sup>
Stack Dust emission intensity	kg/tcs	0.35	0.31	0.00	0.33	0.28 <sup>#</sup>
Stack SOx emissions	Thousand tonnes	6.1	6.8	6.4	4.7	4.6 <sup>#</sup>
SOx emission intensity	kg/tcs	2.2	2.02	1.96	1.33	1.56 <sup>#</sup>
Stack NOx emissions	Thousand tonnes	5.0	4.8	5.1	5.0	4.3 <sup>#</sup>
NOx emission intensity	kg/tcs	1.61	1.41	1.57	1.42	1.47 <sup>#</sup>
<sup>2</sup> Calendar year reporting (1 January - 31 December)						
<sup>3</sup> Historical data revised to exclude fugitive emissions						
<b>Tata Steel Nederland BV (CY<sup>2</sup>)</b>						
<b>For crude steel making sites<sup>(A)</sup></b>						
Stack dust emissions	Thousand tonnes	1.80	1.88	1.80	1.57	1.52 <sup>#</sup>
Stack Dust emission intensity	kg/tcs	0.26	0.28	0.3	0.24	0.25 <sup>#</sup>
Stack SOx emissions	Thousand tonnes	3.1	3.2	3.0	2.8	3.2 <sup>#</sup>
SOx emission intensity	kg/tcs	0.46	0.48	0.5	0.42	0.52 <sup>#</sup>
Stack NOx emissions	Thousand tonnes	5.7	6.0	5.1	5.3	5.0 <sup>#</sup>
NOx emission intensity	kg/tcs	0.84	0.91	0.85	0.80	0.80 <sup>#</sup>

# KPIs assured by Price Waterhouse &amp; Co. Chartered Accountants LLP

	UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
<b>For non crude steel making sites (B)</b>						
Stack dust emissions	Thousand tonnes	0.002	0.002	0.002	0.002	0.002
Stack SOx emissions	Thousand tonnes	0.046	0.050	0.055	0.047	0.043
Stack NOx emissions	Thousand tonnes	0.001	0.001	0.001	0.001	0.000
<b>Tata Steel Nederland BV: Total (A+B)</b>						
Stack dust emissions	Thousand tonnes	1.80	1.88	1.80	1.57	1.52
Stack SOx emissions	Thousand tonnes	3.2	3.2	3.1	2.8	3.3
Stack NOx emissions	Thousand tonnes	5.7	6.0	5.1	5.3	5.0
<b>Specific Water Consumption &amp; Discharge Intensity</b>						
<b>Tata Steel Limited (Standalone)<sup>(A)</sup></b>						
Fresh water consumption	Million m <sup>3</sup>	46.3	40.8	32.9	49.9	49.8
Specific fresh water consumption	m <sup>3</sup> /tcs	3.50	3.10	2.70	2.71	2.62 <sup>#</sup>
Effluent discharge volume	Million m <sup>3</sup>	10.3	9.5	8.3	9.5	8.1 <sup>#</sup>
Effluent discharge intensity	m <sup>3</sup> /tcs	0.78	0.72	0.68	0.52	0.43 <sup>#</sup>
<b>Tata Steel Long Products Limited<sup>(A)</sup></b>						
Fresh water consumption	Million m <sup>3</sup>	-	-	-	-	4.1
Specific fresh water consumption	m <sup>3</sup> /tcs	-	-	-	-	5.81 <sup>#</sup>
Effluent discharge volume	Million m <sup>3</sup>	-	-	-	-	-
Effluent discharge intensity	m <sup>3</sup> /tcs	-	-	-	-	Zero effluent discharge <sup>#</sup>
<b>Tata Steel UK Limited<sup>(CY<sup>2</sup>)</sup></b>						
Fresh water consumption	Million m <sup>3</sup>	18.6	22.0	28.4	30.8	28.8
Specific fresh water consumption	m <sup>3</sup> /tcs	6.01	6.51	8.73	8.70	9.84 <sup>#</sup>
Effluent discharge volume	Million m <sup>3</sup>	33.3	19.5	17.6	21.3	29.4 <sup>#</sup>
Effluent discharge intensity	m <sup>3</sup> /tcs	10.79	5.76	5.40	6.02	10.02 <sup>#</sup>
<b>Tata Steel Nederland BV<sup>(CY<sup>2</sup>)</sup></b>						
Fresh water consumption	Million m <sup>3</sup>	33.9	32.6	32.3	32.5	32.2
Specific fresh water consumption	m <sup>3</sup> /tcs	4.96	4.93	5.20	4.76	5.21 <sup>#</sup>
Effluent discharge volume <sup>4</sup>	Million m <sup>3</sup>	182.0	193.7	184.7	213.5	212.0 <sup>#</sup>
Effluent discharge intensity	m <sup>3</sup> /tcs	26.59	28.96	30.44	32.06	34.29 <sup>#</sup>
<sup>4</sup> This is including 157 Million m <sup>3</sup> of seawater used for cooling						
<b>Tata Steel (Thailand) PCL</b>						
Fresh water consumption	Million m <sup>3</sup>	1.8	1.9	1.7	1.7	1.4
Specific fresh water consumption	m <sup>3</sup> /tcs	1.80	1.59	1.28	1.22	1.09
Effluent discharge volume	Million m <sup>3</sup>	None	None	None	None	None
Effluent discharge intensity	m <sup>3</sup> /tcs	None	None	None	None	None
<sup>2</sup> Calendar year reporting (1 January - 31 December)						
<b>Waste</b>						
<b>Tata Steel Limited (Standalone)<sup>(A)</sup></b>						
Solid waste generated	Thousand tonnes	-	9,967	9,427	14,283	15,123
Solid waste utilised	Thousand tonnes	-	9,967	9,417	14,057	15,559
Solid waste sent to landfill / incineration	Thousand tonnes	-	-	5	12	15
Solid waste utilisation	%	-	100.0	99.9	98.4	102.9 <sup>5#</sup>
<b>Tata Steel Long Products Limited</b>						
Solid waste generated (Gamharia)	Thousand tonnes	-	-	-	-	927
Solid waste generated (Gamharia & Joda)	Thousand tonnes	-	-	947	1,023	1,138
Solid waste utilised (Gamharia)	Thousand tonnes	-	-	-	-	858
Solid waste utilised (Gamharia & Joda)	Thousand tonnes	-	-	1,057	851	1,050
Solid waste utilisation (Gamharia)	%	-	-	-	-	92.6 <sup>#</sup>
Solid waste utilisation (Gamharia & Joda)	%	-	-	111.6 <sup>5</sup>	83.2	92.2

# KPIs assured by Price Waterhouse &amp; Co. Chartered Accountants LLP

	UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
<b>Tata Steel UK Limited<sup>®</sup> (CY)<sup>2</sup></b>						
Solid waste generated	Thousand tonnes	-	231	186	111	314 <sup>6</sup>
Solid waste utilised	Thousand tonnes	-	221	113	85	308 <sup>6</sup>
Solid waste sent to landfill / incineration	Thousand tonnes	-	4	4	7	6
Solid waste utilisation	%	-	95.9	60.5	76.1	98.0 <sup>6</sup>

<sup>5</sup>Some waste from previous year has been utilised.

<sup>6</sup>Some material from previous years that had been stored on the Port Talbot site that had a previously undetermined destination or use, was utilised for a particular project in early 2022

<b>Tata Steel Nederland BV<sup>®</sup> (CY<sup>2</sup>)</b>						
Solid waste generated	Thousand tonnes	193	218	201	170	211
Solid waste utilised	Thousand tonnes	143	170	159	127	151
Solid waste sent to landfill / incineration	Thousand tonnes	48	42	36	38	52
Solid waste utilisation	%	74.1	78.3	79.1	74.7	71.6 <sup>#</sup>
<b>Tata Steel (Thailand) PCL</b>						
Solid waste generated	Thousand tonnes	211	201	222	266	254
Solid waste utilised	Thousand tonnes	210	200	221	265	254
Solid waste sent to landfill / incineration	Thousand tonnes	0.70	0.36	0.46	0.69	0.4
Solid waste utilisation	%	99.7	99.8	99.8	99.7	99.8

**Energy Intensity**

<b>Tata Steel Limited (Standalone)<sup>®</sup></b>						
Energy consumption	GJ	-	-	-	-	44,43,89,343 <sup>#</sup>
Energy Intensity	GJ/tcs	24.35	24.17	24.11	23.62	23.43 <sup>#</sup>
<b>Tata Steel Long Products Limited<sup>®</sup></b>						
Energy consumption	GJ	-	-	-	-	2,90,71,452 <sup>#</sup>
Energy Intensity	GJ/tcs	-	29.16	29.25	32.47	41.06 <sup>#</sup>
<b>Tata Steel UK Limited</b>						
Energy consumption	GJ	-	-	-	-	6,84,06,447 <sup>#</sup>
Energy Intensity	GJ/tcs	24.20	23.76	22.85	23.15	23.34 <sup>#</sup>
<b>Tata Steel Nederland BV</b>						
Energy consumption	GJ	-	-	-	-	11,59,18,193 <sup>#</sup>
Energy Intensity <sup>7</sup>	GJ/tcs	19.99	19.79	20.22	20.32	18.82 <sup>#</sup>

<sup>7</sup>Change in methodology to align with the parent company

<b>Tata Steel (Thailand) PCL</b>						
Energy consumption	GJ	-	-	-	-	58,41,098
Energy Intensity	GJ/tcs	9.90	10.00	9.86	9.30	5.06

**Renewable Energy<sup>®</sup>**

Tata Steel Limited (Jamshedpur, Kalinganagar & Noamundi)	GJ	-	-	-	-	22,482 <sup>#</sup>
Tata Steel Long Products Limited (Joda)	GJ	-	-	-	-	489 <sup>#</sup>
Tata Steel UK Limited (Shotton)	GJ	-	-	-	-	1,59,849 <sup>#</sup>
Tata Steel Nederland BV (Ijmuiden)	GJ	-	-	-	-	294 <sup>#</sup>
Tata Steel (Thailand) PCL	GJ	-	-	-	-	5,180

**Biodiversity**

<b>Tata Steel Limited (Standalone)</b>						
Total sites covered under Biodiversity Management Plans (BMPs)	Nos.	8	9	11	13	14
Total area covered under Biodiversity Management Plans (BMPs)	Hectares	8,974	9,648	11,622	11,725	11,782
<b>Tata Steel Long Products Limited</b>						
Total sites covered under Biodiversity Management Plans (BMPs)	Nos.	-	-	-	Initiated at 3 sites	3

<sup>#</sup> KPIs assured by Price Waterhouse & Co. Chartered Accountants LLP

	UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
Total area covered under Biodiversity Management Plans (BMPs)	Hectares	-	-	-	-	439
<b>Tata Steel UK Limited Management</b>						
Discrete sites under biodiversity management	Nos.	-	-	-	7	7
<b>Tata Steel Limited (Standalone)</b>						
Workforce (permanent+contract) working in EMS (ISO 14001) certified steel production facilities	%	-	100	100	100	100
<b>Tata Steel Long Products Limited</b>						
Workforce (permanent+contract) working in EMS (ISO 14001) certified steel production facilities	%	-	100	100	100	100
<b>Tata Steel UK Limited</b>						
Workforce (permanent+contract) working in EMS (ISO 14001) certified steel production facilities	%	100	100	100	100	100
<b>Tata Steel Nederland BV</b>						
Workforce (permanent+contract) working in EMS (ISO 14001) certified steel production facilities	%	100	100	100	100	100
<b>Tata Steel (Thailand) PCL</b>						
Workforce (permanent+contract) working in EMS (ISO 14001) certified steel production facilities	%	100	100	100	100	100
<b>Scrap recycling</b>						
<b>Tata Steel Limited (Standalone)</b>						
Steel scrap recycled (internal & external) <sup>8</sup>	Thousand tonnes	-	-	1,181	1,330	1,538
Steel scrap recycled (internal & external)	%	-	-	4.90	7.24	8.11
<sup>8</sup> Previous period's data revised on account of change in reporting methodology						
<b>Tata Steel Long Products Limited</b>						
Steel scrap recycled (internal & external)	Thousand tonnes	-	22	20	30	39
Steel scrap recycled (internal & external)	%	-	3.70	3.15	4.34	5.53
<b>Tata Steel UK Limited</b>						
Steel scrap recycled (internal & external)	Thousand tonnes	531	497	554	596	472
Steel scrap recycled (internal & external)	%	17	15	17	18	16
<b>Tata Steel Nederland BV</b>						
Steel scrap recycled (internal & external)	Thousand tonnes	1,140	1,150	1,019	1,137	1,082
Steel scrap recycled (internal & external)	%	17	17	17	18	18
<b>Tata Steel (Thailand) PCL</b>						
Steel scrap recycled (internal & external)	Thousand tonnes	1,138	1,087	1,203	1,449	1,257
Steel scrap recycled (internal & external)	%	99	99	100	99	99
<b>Spend on Climate Change and Environment</b>						
<b>Tata Steel Limited (Standalone)</b>						
Spend on Social, Climate Change and Environment (Capex)	₹ crore	286	283	33	554	1,437
<b>Tata Steel Long Products Limited</b>						
Spend on Social, Climate Change and Environment (Capex)	₹ crore	-	-	8	9	29
<b>Tata Steel UK Limited</b>						
Spend on Social, Climate Change and Environment (Capex)	Million GBP	-	-	-	-	53
<b>Tata Steel Nederland BV</b>						
Spend on Social, Climate Change and Environment (Capex)	Million GBP	17	48	51	22	117
<b>Tata Steel (Thailand) PCL</b>						
Spend on Social, Climate Change and Environment (Capex)	Million Thai Baht	-	-	-	-	4

<sup>#</sup> KPIs assured by Price Waterhouse & Co. Chartered Accountants LLP

UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
<b>Social</b>					
<b>Safety</b>					
<b>Tata Steel Limited (Standalone)</b>					
Fatalities	Nos.	2	3	3	3
Lost-time Injury (LTI) - employee**	Nos.	38	58	48	58
Lost-time Injury (LTI) – contractor**	Nos.	30	69	47	107
Lost-time Injury (LTI) – Total**	Nos.	68	127	95	165
Lost-time Injury Frequency Rate (LTIFR) - employee	Injuries per million hours worked	0.47	0.78	0.63	0.67
Lost-time Injury Frequency Rate (LTIFR) – contractor	Injuries per million hours worked	0.19	0.40	0.49	0.55
Lost-time Injury Frequency Rate (LTIFR) – Total	Injuries per million hours worked	0.29	0.52	0.55	0.59
Sites with Safety Management System (ISO 45001/OHSAS 18001)	%	-	-	100	100
Organisational Health Index	Score out of 16	12.62	12.70	12.83	13.05
<b>Tata Steel Long Products Limited</b>					
Fatalities	Nos.	-	0	1	0
Lost-time Injury (LTI) - employee	Nos.	-	-	3	7
Lost-time Injury (LTI) – contractor	Nos.	-	-	21	7
Lost-time Injury (LTI) – Total	Nos.	-	15	24	14
Lost-time Injury Frequency Rate (LTIFR) - employee	Injuries per million hours worked	-	1.07	1.38	0.66
Lost-time Injury Frequency Rate (LTIFR) – contractor	Injuries per million hours worked	-	-	-	-
Lost-time Injury Frequency Rate (LTIFR) – Total	Injuries per million hours worked	-	-	-	-
Sites with Safety Management System (ISO 45001/OHSAS 18001)	%	-	100	100	100
<b>Tata Steel UK Limited</b>					
Fatalities	Nos.	0	2	0	0
Lost-time Injury (LTI) - employee	Nos.	19	36	30	33
Lost-time Injury (LTI) – contractor	Nos.	8	7	9	15
Lost-time Injury (LTI) – Total	Nos.	27	43	39	48
Lost-time Injury Frequency Rate (LTIFR) - employee	Injuries per million hours worked	1.13	2.25	1.93	2.10
Lost-time Injury Frequency Rate (LTIFR) – contractor	Injuries per million hours worked	1.61	1.43	2.10	3.17
Lost-time Injury Frequency Rate (LTIFR) – Total	Injuries per million hours worked	1.24	2.06	1.97	2.35
Sites with Safety Management System (ISO 45001/OHSAS 18001)	%	-	5	15	17
<b>Tata Steel Nederland BV</b>					
Fatalities	Nos.	0	0	0	0
Lost-time Injury (LTI) - employee	Nos.	19	18	17	19
Lost-time Injury (LTI) – contractor	Nos.	20	13	9	8
Lost-time Injury (LTI) – Total	Nos.	39	31	26	27
Lost-time Injury Frequency Rate (LTIFR) - employee	Injuries per million hours worked	1.03	0.99	0.93	1.01

\* KPIs assured by Price Waterhouse & Co. Chartered Accountants LLP

UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
Lost-time Injury Frequency Rate (LTIFR) – contractor	Injuries per million hours worked	3.71	3.31	2.81	2.36
Lost-time Injury Frequency Rate (LTIFR) – Total	Injuries per million hours worked	1.63	1.40	1.21	1.21
Sites with Safety Management System (ISO 45001/OHSAS 18001)	%	0	24	28	36
<b>Tata Steel (Thailand) PCL</b>					
Fatalities	Nos.	0	0	0	1
Lost-time Injury (LTI) - employee	Nos.	4	0	0	0
Lost-time Injury (LTI) – contractor	Nos.	3	0	1	3
Lost-time Injury (LTI) – Total	Nos.	7	0	1	3
Lost-time Injury Frequency Rate (LTIFR) - employee	Injuries per million hours worked	1.50	0	0	0
Lost-time Injury Frequency Rate (LTIFR) – contractor	Injuries per million hours worked	1.07	0	0.42	1.34
Lost-time Injury Frequency Rate (LTIFR) – Total	Injuries per million hours worked	1.28	0	0.21	0.63
Sites with Safety Management System (ISO 45001/OHSAS 18001)	%	100	100	100	100
<b>Human Resource Management</b>					
<b>Tata Steel Limited (Standalone)</b>					
Nos. of employees	Nos.	32,984	32,364	31,189	35,927
New employee hires	Nos.	1,977	1,820	2,129	1,704
Employee productivity (steel volume)	tcs/employee/year	800	803	745	854
Female employees in workforce	%	6.5	6.9	7.4	6.9
Female employees in management positions in workforce	%	11.6	12.0	12.6	11.7
Age break-up of the workforce (<30 years)	%	15.1	15.5	18.0	23.0
Age break-up of the workforce (30 - 50 years)	%	54.8	55.3	57.0	59.0
Age break-up of the workforce (>50 years)	%	30.1	29.2	25.0	17.0
Employee turnover rate (Including Superannuation)	%	6.4	6.8	7.5	6.9
Employee turnover rate (Excluding superannuation)	%	-	-	1.2	2.0
Workforce covered through formal trade unions <sup>9</sup>	%	88.9	87.4	86.1	79.6
Diversity Mix ( % of employees who belong to categories of - Affirmative Action/Women/PWD/ LGBT+)	%	-	19.00	20.00	18.00
Investment in employee training and development	₹ crore	-	133	152	159
Employee training	Thousand person-days	248	253	199	413
Employee training	person-days/employee/year	7.52	7.81	6.38	11.51
<b>Tata Steel Long Products Limited</b>					
Nos. of employees	Nos.	-	2,496	2,395	2,357
New employee hires	Nos.	-	51	19	106
Employee productivity (steel volume)	tcs/employee/year	-	456	548	665
Female employees in workforce	%	-	2.2	2.4	2.8
Female employees in management positions in workforce	%	-	0.6	0.7	1.2
Age break-up of the workforce (<30 years)	%	-	9.9	8.0	6.6

\* KPIs assured by Price Waterhouse & Co. Chartered Accountants LLP

	UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
Age break-up of the workforce (30 - 50 years)	%	-	67.7	69.6	70.7	70.4
Age break-up of the workforce (>50 years)	%	-	22.5	22.5	22.7	22.2
Employee turnover rate (Including Superannuation)	%	-	3.5	3.9	4.6	6.8
Employee turnover rate (Excluding superannuation)	%	-	1.2	1.2	2.5	3.8
Workforce covered through formal trade unions <sup>9</sup>	%	-	-	-	100	100
Employee training	thousand person-days	-	10.20	30.46	43.04	9.98 <sup>#</sup>
Employee training	person-days/employee/year	-	4.09	12.72	18.26	4.36 <sup>#</sup>
<b>Tata Steel UK Limited</b>						
Nos. of employees	Nos.	-	-	-	-	8,320
New employee hires	Nos.	-	-	-	-	869
Employee productivity (steel volume) - UK	tcs/employee/year	-	-	-	-	352
Female employees in workforce	%	-	-	-	-	10.4 <sup>#</sup>
Female employees in management positions in workforce	%	-	-	-	-	18.2
Age break-up of the workforce (<30 years)	%	-	-	-	-	17.5
Age break-up of the workforce (30 - 50 years)	%	-	-	-	-	46.6
Age break-up of the workforce (>50 years)	%	-	-	-	-	35.9
Employee turnover rate	%	-	-	-	-	6.5
Employee turnover rate (Including Superannuation)	%	-	-	-	-	9.3
Employee turnover rate (Excluding superannuation)	%	-	-	-	-	6.8
Workforce covered through formal trade unions	%	-	-	-	-	56.0
Employee training <sup>10</sup>	Thousand person-days	-	-	-	-	21.70 <sup>#</sup>
Employee training <sup>10</sup>	person-days/employee/year	-	-	-	-	2.69 <sup>#</sup>

<sup>9</sup> As a % of non-managerial workforce only

<sup>10</sup> Training data excludes UK subsidiaries

<b>Tata Steel Nederland BV</b>						
Nos. of employees	Nos.	-	11,669	11,480	11,608	12,299
New employee hires	Nos.	-	463	411	615	1,108
Employee productivity (steel volume)	tcs/employee/year	-	750	692	721	660
Female employees in workforce <sup>®</sup>	%	-	11.0	10.9	10.8	10.6 <sup>#</sup>
Female employees in management positions in workforce <sup>11®</sup>	%	-	8.6	8.3	8.0	19.8
Age break-up of the workforce (<30 years)	%	-	13	13	13	13
Age break-up of the workforce (30 - 50 years)	%	-	42	42	43	44
Age break-up of the workforce (>50 years)	%	-	46	45	44	44
Employee turnover rate (Including Superannuation)	%	-	2.2	2.8	3.1	4.8
Employee turnover rate (Excluding superannuation)	%	-	-	-	-	4.1
Workforce covered through formal trade unions <sup>®</sup>	%	-	-	-	55	52
Employee training <sup>®</sup>	Thousand person-days	-	-	-	-	13.28 <sup>#</sup>
Employee training <sup>®</sup>	person-days/employee/year	-	-	-	-	1.42 <sup>#</sup>

<sup>11</sup> Scope of data is improved and widened in 2023.

<b>Tata Steel (Thailand) PCL</b>						
Nos. of employees	Nos.	1,187	1,151	1,101	1,092	1,086
New employee hires	Nos.	60	35	2	26	38
Employee productivity (steel volume)	tcs/employee/year	972	1,043	1,184	1,221	1,115
Female employees in workforce	%	17.4	17.4	17.3	17.2	17.6

<sup>#</sup> KPIs assured by Price Waterhouse & Co. Chartered Accountants LLP

	UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
Female employees in management positions in workforce	%	19.2	18.4	16.4	15.7	17.0
Age break-up of the workforce (<30 years)	%	22.8	23.5	17.5	14.7	13.1
Age break-up of the workforce (30 - 50 years)	%	66.1	63.6	67.9	68.6	68.6
Age break-up of the workforce (>50 years)	%	11.1	12.9	14.6	16.7	18.3
Employee turnover rate (Including Superannuation)	%	-	-	-	-	4.4
Employee turnover rate (Excluding superannuation)	%	6.5	4.4	2.0	1.6	2.8
Employee training	Thousand person-days	7.3	4.9	6.6	7.4	6.8
Employee training	person-days/employee/year	6.20	4.30	6.00	6.80	6.60

#### Corporate Social Responsibility [Tata Steel Limited (Standalone)]

Water harvesting structures	No.	-	-	-	-	478 <sup>#</sup>
Lives reached through CSR	No.	-	-	-	-	31,52,195 <sup>#</sup>
No. of employee volunteers for CSR Programmes	No.	-	-	-	-	3,659 <sup>#</sup>
No. of employee volunteering hours for CSR Programmes	No.	-	-	-	-	18,494 <sup>#</sup>

#### Economic & Governance

##### Board

##### Tata Steel Limited (Standalone)

Board of Directors	Nos.	5	10	10	11	10
Female Directors on the Board	Nos.	0	1	1	2	2
Independent Directors on Board	Nos.	5	5	5	6	5

##### Ethics

##### Tata Steel Limited (Standalone)

##### Category A- Whistle Blower Concerns

Whistle-blower cases <sup>12</sup> - Received	Nos.	436	881	777	845	303
Whistle-blower cases <sup>12</sup> - Closed	Nos.	334	602	541	601	158
Whistle-blower cases <sup>12</sup> - Open	Nos.	102	279	236	244	145

##### Category B- Grievances & others

Grievances & Others cases <sup>12</sup> - Received	Nos.	-	-	-	-	875
Grievances & Others <sup>12</sup> - Closed	Nos.	-	-	-	-	717
Grievances & Others <sup>12</sup> - Open	Nos.	-	-	-	-	158
Sexual harassment cases - Received	Nos.	20	34	21	22	31
Sexual harassment cases - Closed	Nos.	19	26	15	18	24
Sexual harassment cases - Open	Nos.	1	8	6	4	7
Training on Tata Code of Conduct - officers	person-hours	4,003	17,064	26,458	31,142	20,472
Training on Tata Code of Conduct - frontline employees	person-hours	7,080	2,763	5,086	14,630	17,656
Training on Tata Code of Conduct - contract employees	person-hours	23,798	24,307	15,380	60,898	1,02,735
Business associates <sup>13</sup> trained on Tata Code of Conduct	Nos.	-	-	1,747	2,114	2,050

##### Tata Steel Long Products Limited

Whistle-blower cases <sup>12</sup> - Received	Nos.	5	19	31	34	46
Whistle-blower cases <sup>12</sup> - Closed	Nos.	5	19	31	30	44
Whistle-blower cases <sup>12</sup> - Open	Nos.	0	0	0	4	2
Sexual harassment cases - Received	Nos.	0	2	1	0	1
Sexual harassment cases - Closed	Nos.	0	1	2	0	0
Sexual harassment cases - Open	Nos.	0	1	0	0	1
Training on Tata Code of Conduct - officers	person-hours	-	1,209	1,142	541	698
Training on Tata Code of Conduct - frontline employees	person-hours	-	1,060	636	828	1,293
Training on Tata Code of Conduct - contract employees	person-hours	-	896	454	9,092	4,290
Business associates <sup>13</sup> trained on Tata Code of Conduct	Nos.	-	-	35	235	250

<sup>#</sup> KPIs assured by Price Waterhouse & Co. Chartered Accountants LLP

	UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
<b>Tata Steel UK Limited</b>						
Whistle-blower cases - Received	Nos.	Combined data reported till FY22 for TSUK+TSN				23
Whistle-blower cases - Closed	Nos.	Combined data reported till FY22 for TSUK+TSN				22
<b>Tata Steel Nederland BV</b>						
Whistle-blower cases - Received	Nos.	Combined data reported till FY22 for TSUK+TSN				19
Whistle-blower cases - Closed	Nos.	Combined data reported till FY22 for TSUK+TSN				17
<b>Tata Steel Europe (TSUK + TSN)</b>						
Whistle-blower cases - Received	Nos.	33	51	48	34	-
Whistle-blower cases - Closed	Nos.	33	51	48	34	-
<b>Tata Steel (Thailand) PCL</b>						
Training on Tata Code of Conduct	Nos. of persons	60	35	2	26	38

**Note:** TSL Standalone has changed its categorisation of concerns into two parts - Whistle Blower Concerns and Grievances & Others

<sup>12</sup> Exclusive of sexual harassment cases

<sup>13</sup> Business Associate means suppliers, customers, vendors, dealers, distributors, franchisees, lessors, lessees or such other persons with whom Tata Steel has any business or transactional dealings including the Business Associate's employees, agents and other representatives.

<b>Supply Chain</b>						
<b>Tata Steel Limited (Standalone)</b>						
Active supplier base	Nos.	>5,000	5,132	5,071	6,264	7,049
Local suppliers	Nos.	1,316	1,806	1,671	1,944	2,138
Critical suppliers	Nos.	-	-	-	477	466
Business volume of local suppliers	₹ crore	-	-	2,397	4,587	7,290
Number of Affirmative Action (AA) suppliers	Nos.	70	70	71	71	75
Business volume of Affirmative Action (AA) suppliers	₹ crore	75	61	66	69	112
Suppliers assessed based on safety	Nos.	1,035	850	745	1,022	1,423
Suppliers trained through Vendor Capability Advancement Program (VCAP)	Nos.	1,426	1,330	844	450	307
Critical suppliers made aware on Responsible Supply Chain Policy	Nos.	-	-	223	327	235
No. of supply chain partners assessed on Responsible Supply Chain Policy	Nos.	-	-	203	257	211 <sup>#</sup>
Steel Processing Centers (SPC) assessed on Responsible Supply Chain Policy	Nos.	-	-	-	31	18
Distributors assessed on Responsible Supply Chain Policy	Nos.	-	-	-	106	16
<b>Tata Steel UK Limited</b>						
Active suppliers	Nos.	3,584	3,354	2,808	2,851	2,434
Active suppliers made aware on Responsible Procurement Policy (RPP) <sup>14</sup>	%	-	-	-	-	94
<b>Tata Steel Nederland BV</b>						
Active suppliers	Nos.	3,901	3,462	3,129	3,329	3,389
Active suppliers made aware on Responsible Procurement Policy (RPP) <sup>14</sup>	%	-	-	-	-	100
<b>Tata Steel Europe (UK + Netherlands business)</b>						
Active suppliers	Nos.	7,485	6,816	5,937	6,180	5,823
Active suppliers made aware on Responsible Procurement Policy (RPP) <sup>14</sup>	%	86	88	90	91	98

<sup>14</sup> The percentage of active suppliers made aware on the RPP is the same across UK and Netherlands for FY19-FY22

	UOM	FY2018-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23
<b>Intellectual Capital</b>						
<b>Tata Steel Limited (Standalone)</b>						
Collaborations/memberships of academia and technical institutes	Nos.	40	50	20	35	16
Patents filed	Nos.	-	119	119	125	132
Patents granted	Nos.	-	58	109	121	146
New products developed	Nos.	114	155	79	62	84
R&D employees	Nos.	-	-	246	270	294
R&D Spend	₹ crore	216	259	231	213	275
R&D Spend	% of revenue	0.31	0.43	0.36	0.17	0.21
Capex	₹ crore	3,677	4,749	2,122	6,288	8,555
Investment in new processes and products (Capex + R&D)	₹ crore	3,893	5,008	2,353	6,501	8,830
Investment in new processes and products (Capex + R&D)	% of revenue	6	9	4	5	7
Revenue	₹ crore	68,902	58,788	63,402	1,29,021	1,29,007
<b>Tata Steel UK Limited</b>						
Collaborations/memberships of academia and technical institutes	Nos.	-	-	-	7	17
New products developed	Nos.	5	2	4	3	13
R&D employees	Nos.	76	75	70	65	69
R&D Spend	Million Euros	11	9	7	11	14
R&D Spend	% of revenue	0.46	0.42	0.35	0.34	0.45
Investment in new processes and products (Capex + R&D)	Million Euros	148	264	211	94	153
Investment in new processes and products (Capex + R&D)	% of revenue	6.15	12.32	10.68	2.99	4.89
<b>Tata Steel Nederland BV</b>						
Collaborations/memberships of academia and technical institutes	Nos.	-	-	-	158	162
Patents granted	Nos.	137	133	142	202	161
Patents filed <sup>15</sup>	Nos.	32	36	19	15	22
New products developed	Nos.	17	20	12	10	10
R&D employees	FTE's	316	311	300	299	307
R&D Spend	Million Euros	63	57	54	62	64
R&D Spend <sup>16</sup>	% of revenue	1.16	1.16	1.19	0.87	0.86
Investment in new processes and products (Capex + R&D)	Million Euros	129	111	53	66	74
Investment in new processes and products (Capex + R&D)	% of revenue	2.40	2.27	1.24	0.92	0.99

<sup>15</sup> The patents filed refer to priority (i.e. first) filings.

<sup>16</sup> Previous year's number revised based on improved calculation methodology.

#### Note -

<sup>2</sup> Calendar year reporting (1 January - 31 December)

© Steel Making sites - Tata Steel Limited (Standalone) : Jamshedpur, Kalinganagar, Meramandali, Tata Steel Long Products Limited : Gamharia, Tata Steel UK Limited: Port Talbot, Tata Steel Nederland BV: Ijmuiden, Tata Steel (Thailand) PCL: Rayong, Saraburi, Chonburi

Tata Steel Limited Standalone means Tata Steel Limited legal entity which includes its 3 steel making sites, mining locations, downstream units and offices \*\* excluding CSD hubs & stockyard & steel processing centres