

## Material Procurement Forecast

The following are lists of the annual average performance in the procurement of items, being purchased on a regular basis, for a time period spanning the past 3 years. We will continue to procure the listed items in fiscal 2019.

Category	Item	The Annual average procurement (unit:Million Yen)
Facilities-related goods	Rails	1,251
	Rail appurtenances	1,174
	Sleepers	760
	Turnout items	399
	Bridge girder items	77
	Other railroad facility stock items	142
Rolling stock-related goods	Rail cars(Shinkansen)	1,623
	Bogies	454
	Internal combustion car items	923
	Axle items	410
	Electrical parts for cars	1,557
	Car brake items	304
	Other rolling stock items	1,025
	Rail cars	3,197
Signaling and communication-related goods	Mechanical signal equipments	19
	Electric signal equipments	2,489
	Communication systems	1,231
Electric-related-goods	Power stations and substations	550
	Transformers	122
	Electric light and power items	182
	Power poles, pylons, and steel structures	15
	Electric line items	117
	Electric lines and cables	175
	Other electric items	330
Metal industrial goods	Steel materials	1
	Metal pipings	1
	Secondary wire-rod products	49
Fuel,timber,and chemical products	Coal	13
	Fuel oil	1,066
	Lubricating oils	62
	Paints	100
	Glass products	29
	Rubber and plastic products	2
	Industrial chemicals	210
Manufacturing machinery	Motor machinery	6
	Machine tools	0
	Production machinery	7
	Cargo handling machinery	129
	Civil engineering machinery	581
	Testing machinery	698
	Office and stationery supplies	71
	Test measurement devices	73
	Working tools	346
Miscellaeous materials	Uniforms	64
	Welfare items	5
	Sales operations items	4
	Securities and paper records	399
	Stationery supplies	2
	Working tools	39
	Other items	30