

JSR Group ESG Data

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JSR Corporation

Created June, 2018

◆ Environment Data

Environmental Impact of Business Activities

Category	Items	Boundary ※			Unit	FY2013	FY2014	FY2015	FY2016	FY2017			
		A	B	C									
Input Data	Energy consumption	(Crude oil equivalent)	○	○	○	1,000 kL	514	527	559	558	579		
			○	○	○		267	265	268	267	266		
			○	○	○		128	112	126	118	118		
			○	○	○		119	150	165	173	195		
			○	○	○		119	150	165	173	195		
		Per-unit change (4-year average.)	○	○	○	%	-0.6	-0.6	0.7	2.9	0.7		
		Intensity	○	○	○	kL/ton	0.31	0.30	0.30	0.30	0.27		
			○	○	○		0.59	0.62	0.62	0.61	0.59		
		Water consumption	(Excluding seawater)	○	○	○	1,000 m ³	20,242	20,699	20,822	20,725	21,097	
	○			○	○	15,114		14,855	14,581	14,423	14,238		
○	○			○	3,038	2,985		3,009	2,673	2,768			
○	○			○	2,090	2,859		3,232	3,629	4,091			
	Industrial water		○	○	○	1,000 m ³	14,733	14,359	14,190	13,916	13,667		
	Groundwater		○	○	○		234	357	253	354	393		
	Tap water		○	○	○		147	139	138	153	178		
	Seawater		○	○	○		59,830	57,395	54,725	55,413	55,011		
	Recycled water	○	○	○	4,496	4,249	4,159	4,193	4,250				
	Effective recycling ratio	○	○	○	%	29.7	28.6	28.5	29.1	29.8			
	Intensity	○	○	○	m ³ /ton	7.3	7.9	7.3	6.7	6.4			
		○	○	○		10.4	11.7	12.2	12.7	12.4			
	Raw materials consumption	○	○	○	1,000 tons	988	965	938	959	966			
Output Data	Greenhouse gas emissions	Scope1 + Scope2	○	○	○	1,000 tons CO ₂	1,256	1,329	1,407	1,415	1,437		
			○	○	○		646	659	651	657	653		
			○	○	○		295	271	302	295	268		
			○	○	○		315	399	454	463	516		
			○	○	○		315	399	454	463	516		
		Comparison with FY2013	○	○	○	%	0.0	2.0	0.8	1.7	1.1		
		Intensity	○	○	○	Tons/tons	0.71	0.72	0.73	0.74	0.62		
			○	○	○		1.57	1.64	1.72	1.63	1.56		
	Waste water	Total amount of waste water		○	○	○	1,000 m ³	17,489	17,317	17,455	17,854	18,008	
				○	○	○		12,511	11,974	11,755	12,161	12,108	
				○	○	○		3,272	3,064	3,273	3,173	3,265	
				○	○	○		1,706	2,279	2,427	2,520	2,635	
				○	○	○		1,706	2,279	2,427	2,520	2,635	
			Intensity	○	○	○	m ³ /ton	7.8	8.1	7.9	8.0	7.6	
				○	○	○		8.5	9.4	9.2	8.8	8.0	
			COD		○	○	○	Tons	469	515	516	546	548
		○			○	○	444		445	444	459	457	
			Intensity	○	○	○	x10 ⁻⁶ tons/tons	25	70	72	87	91	
			○	○	○		60	186	174	220	210		
		Total nitrogen	○	○	○	Tons	154	129	156	145	164		
	Intensity	○	○	○	x10 ⁻⁶ tons/tons	147	124	148	139	156			
		○	○	○		6.5	5.4	8.1	6.0	7.6			
	Intensity	○	○	○	x10 ⁻⁶ tons/tons	15.7	14.4	19.5	15.0	17.6			
	Total phosphorus	○	○	○	Tons	1	1	1	1	1			
	Intensity	○	○	○	x10 ⁻⁶ tons/tons	0.3	0.3	0.4	0.7	0.7			
		○	○	○		0.3	0.3	0.2	0.3	0.2			
	Intensity	○	○	○	x10 ⁻⁶ tons/tons	0.7	0.7	0.6	0.6	0.5			
Atmospheric emissions	SO _x		○	○	○	Tons	6	6	5	6	5		
			○	○	○		5	5	4	5	5		
			○	○	○		1	1	1	1	1		
		Intensity	○	○	○	x10 ⁻⁵ tons/tons	0.1	0.2	0.2	0.2	0.1		
	NO _x		○	○	○	Tons	383	372	406	363	403		
			○	○	○		328	322	342	305	335		
○			○	○	55		50	64	58	68			
	Intensity	○	○	○	x10 ⁻⁵ tons/tons	13.3	13.3	15.5	14.6	15.8			
	VOC	○	○	○	Tons	1,080	995	971	983	912			

*Boundaries A: JSR Corporation B: Domestic Group companies C: Overseas Group companies

Category	Items	Boundary ※			Unit	FY2013	FY2014	FY2015	FY2016	FY2017	
		A	B	C							
O u t p u t D a t a	Waste generated	Industrial waste generation	○	○	○	1,000 tons	75	78	82	78	71
			○	○	○	52	59	58	55	49	
			○	○	○	15	9	13	12	11	
			○	○	○	7	10	11	10	11	
		Comparison with FY2013	○	○	○	%	0.0	12.8	11.1	6.2	-5.5
		Recycled waste	○	○	○	1,000 tons	43	41	46	43	40
			○	○	○	23	25	25	25	23	
			○	○	○	15	9	13	12	10	
		Amount of final offsite-landfills	○	○	○	1,000 tons	0.5	1.0	0.8	1.1	0.9
			○	○	○	0	0	0	0	0	
	○		○	○	0.2	0.2	0.2	0.2	0.2		
	○		○	○	0.3	0.8	0.6	1.0	0.7		
	Total generated	○	○	○	1,000 tons	1,422	1,383	1,410	1,420	1,513	
		○	○	○	804	764	730	738	752		
○		○	○	417	376	415	397	431			
○		○	○	201	243	265	285	331			
PRTR (In Japan only)	Amount handled	○	○	○	Tons	1,109,000	1,072,000	1,014,000	1,036,000	1,074,000	
		○	○	○	932,000	932,000	851,000	881,000	903,000		
		○	○	○	177,000	140,000	163,000	155,000	171,000		
	Atmospheric emissions	○	○	○	Tons	531	482	505	519	548	
		○	○	○	309	262	287	273	290		
		○	○	○	222	220	218	246	258		
	Water supply discharge	○	○	○	Tons	9	8	8	8	7	
		○	○	○	3	3	2	3	2		
	Transported waste	○	○	○	Tons	6	5	6	5	5	
		○	○	○	1,927	385	481	420	636		
○		○	○	1,645	330	429	342	536			
		○	○	○	282	55	52	78	100		

*Boundaries A: JSR Corporation B: Domestic Group companies C: Overseas Group companies

Accounting for Greenhouse Gas Emissions Throughout the Supply Chain

Category	Boundary	FY2014 Emission		FY2015 Emission		FY2016 Emission		FY2017 Emission	
		t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)
I. Direct emissions (Scope 1)	JSR Group	641,906	47.2	681,074	46.4	500,532	22.9	458,843	20.8
II. Energy-derived indirect emissions (Scope 2)		653,509	48.1	721,082	49.2	915,473	41.9	977,662	44.2
III. Other indirect emissions (Scope 3)		64,226	4.7	64,540	4.4	771,050	35.3	774,232	35.0
I. Direct emissions (Scope 1)	JSR Corporation	397,548	56.5	379,019	54.8	397,252	28.2	382,808	27.3
II. Energy-derived indirect emissions (Scope 2)		261,351	37.2	272,225	39.3	260,455	18.5	269,766	19.2
III. Other indirect emissions (Scope 3)		44,219	6.3	40,597	5.9	749,048	53.2	750,414	53.5
I. Direct emissions (Scope 1)	Domestic Group companies	82,836	29.6	84,990	27.1	94,251	30.9	66,970	24.0
II. Energy-derived indirect emissions (Scope 2)		188,597	67.4	217,231	69.1	200,558	65.8	201,172	72.0
III. Other indirect emissions (Scope 3)		8,401	3.0	12,065	3.8	10,179	3.3	11,233	4.0
I. Direct emissions (Scope 1)	Overseas Group companies	161,522	42.9	217,065	47.1	9,029	1.9	9,065	1.7
II. Energy-derived indirect emissions (Scope 2)		203,561	54	231,626	50.3	454,460	95.6	506,724	95.9
III. Other indirect emissions (Scope 3)		11,606	3.1	11,878	2.6	11,823	2.5	12,585	2.4

Other indirect emissions (Breakdown of Scope 3)

(1) JSR Corporation

Category	Items	FY2014 Emission		FY2015 Emission		FY2016 Emission		FY2017 Emission	
		t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)
Category 1	Purchased goods and services	–	–	–	–	668,734	89.3	666,950	88.9
Category 2	Capital goods	–	–	–	–	37,553	5.0	40,628	5.4
Category 3	Fuel and energy related activities not included in Scope 1 or 2	10,273	23.2	6,551	16.1	6,713	0.9	6,788	0.9
Category 4	Transportation and delivery (upstream)	12,028	27.2	12,172	30.0	14,133	1.9	13,177	1.8
Category 5	Waste from business operations	8,569	19.4	9,343	23.0	9,152	1.2	10,254	1.4
Category 6	Business travel	321	0.7	327	0.8	330	0.0	328	0.0
Category 7	Employee commuting	1,159	2.6	1,182	2.9	1,194	0.2	1,184	0.2
Category 8	Leased assets (upstream)	43	0.1	47	0.1	46	0.0	40	0.0
Category 9	Transportation and delivery (downstream)	11,770	26.6	10,916	26.9	11,156	1.5	11,065	1.5
Category 10	Processing of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 11	Use of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 12	Disposal of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 13	Leased assets (downstream)	56	0.1	59	0.2	38	0.0	0	0
Category 14	Franchises	0	0	0	0	0	0	0	0
Category 15	Investments	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total of Scope 3 (Category 1- Category 15)		44,219	100	40,597	100	749,048	100	750,414	100

(N/A: not applicable, –: no data)

(2) Domestic Group companies

Category	Items	FY2014 Emission		FY2015 Emission		FY2016 Emission		FY2017 Emission	
		t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)
Category 1	Purchased goods and services	-	-	-	-	-	-	-	-
Category 2	Capital goods	-	-	-	-	-	-	-	-
Category 3	Fuel and energy related activities not included in Scope 1 or 2	-	-	-	-	-	-	-	-
Category 4	Transportation and delivery (upstream)	-	-	-	-	-	-	-	-
Category 5	Waste from business operations	7,140	85.0	10,914	90.5	8,986	88.3	10,036	89.3
Category 6	Business travel	329	3.9	240	2.0	237	2.3	233	2.1
Category 7	Employee commuting	865	10.3	848	7.0	836	8.2	822	7.3
Category 8	Leased assets (upstream)	63	0.8	54	0.4	45	0.4	41	0.4
Category 9	Transportation and delivery (downstream)	-	-	-	-	-	-	-	-
Category 10	Processing of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 11	Use of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 12	Disposal of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 13	Leased assets (downstream)	3	0.0	9	0.1	74	0.7	101	0.9
Category 14	Franchises	0	0	0	0	0	0	0	0
Category 15	Investments	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total of Scope3 (Category 1- Category 15)		8,401	100	12,065	100	10,179	100	11,233	100

(N/A: not applicable, -: no data)

(3) Overseas Group Companies

Category	Items	FY2014 Emission		FY2015 Emission		FY2016 Emission		FY2017 Emission	
		t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)	t-CO ₂	ratio (%)
Category 1	Purchased goods and services	-	-	-	-	-	-	-	-
Category 2	Capital goods	-	-	-	-	-	-	-	-
Category 3	Fuel and energy related activities not included in Scope 1 or 2	-	-	-	-	-	-	-	-
Category 4	Transportation and delivery (upstream)	-	-	-	-	-	-	-	-
Category 5	Waste from business operations	9,465	81.5	10,209	85.9	9,814	83.0	10,684	84.9
Category 6	Business travel	208	1.8	225	1.9	216	1.8	226	1.8
Category 7	Employee commuting	753	6.5	813	6.8	781	6.6	815	6.5
Category 8	Leased assets (upstream)	1,090	9.4	625	5.3	927	7.8	810	6.4
Category 9	Transportation and delivery (downstream)	-	-	-	-	-	-	-	-
Category 10	Processing of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 11	Use of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 12	Disposal of sold products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Category 13	Leased assets (downstream)	90	0.8	6	0.1	85	0.7	50	0.4
Category 14	Franchises	0	0	0	0	0	0	0	0
Category 15	Investments	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total of Scope3 (Category 1- Category 15)		11,606	100	11,878	100	11,823	100	12,585	100

(N/A: not applicable, -: no data)

Categories of Greenhouse Gas Emissions Throughout the Supply Chain and Emissions Subject to Calculation

Category	Emissions subject to calculation
I. Direct emissions (Scope 1)	■ Direct emissions from the use of fuel and industrial processes by the reporting company
II. Energy-derived indirect emissions (Scope 2)	■ Emissions from the use of electricity and heat purchased by the reporting company
III. Other indirect emissions (Scope 3)	- Added as a new calculation item in FY2016

Other indirect emissions (Breakdown of Scope 3)

Category 1	Emissions from activities up to the manufacture of raw materials, parts, purchased goods, sales-related materials, etc. -Calculated for JSR only from FY2016.
Category 2	Emissions from the construction and manufacturing of the reporting company's capital goods - Calculated for JSR only from FY2016.
Category 3	Emissions from the procurement of fuel used in power generation, etc., for electricity and heat procured from other entities - Calculated for JSR only.
Category 4	(1) Emissions from the distribution of raw materials, parts, purchased goods, sales-related materials, etc., up to delivery to the reporting company (2) Emissions (emissions from the distribution paid for by the reporting company) amount of activity from distribution services other than (1) above (transport, handling, and storage) purchased in the fiscal year of the report: Amount of domestic and overseas shipment distribution - Calculated for JSR only.
Category 5	Emissions from the transportation and processing of waste generated by the reporting company
Category 6	Emissions from employee business travel
Category 7	Emissions from employee transportation when commuting to and from the place of business
Category 8	Emissions from the operation of assets leased to the reporting company (excluding emissions calculated under Scope 1 or 2)
Category 9	Emissions from the transport, storage, cargo handling, and retail sales of products (limited to those items not paid for by the reporting company) - Calculated for JSR only.
Category 10	Emissions from the processing of intermediate products by the reporting company
Category 11	Emissions from the use of products by users (consumers and companies) - This category is excluded from calculation because the company is a chemical intermediates manufacturer and the category is not applicable to the use of sold products.
Category 12	Emissions from the transportation and processing of products upon disposal by users (consumers and companies) - This category is excluded from calculation because the company is a chemical intermediates manufacturer.
Category 13	Emissions from the operation of assets leased to other entities
Category 14	Emissions from franchises - No emissions; business structures are not franchises.
Category 15	Emissions from investment to earn profit - This category is excluded from calculation because it is not applicable to "investment to earn profit."

FY2017 Emissions of Chemical Substances (PRTR)

Totals for JSR Corporation, Techno Polymer Co., Ltd.,^{*1} Kraton JSR Elastomers K.K., and Japan Butyl Co., Ltd.'s Kashima Plant

Ordinance designated number	Substance	Amounts handled* ² (t)	Emissions			Transfers* ³ (t)
			Atmosphere (t)	Water (t)	Soil (t)	
1	Zinc compounds (water-soluble)	1.2	0.0	1.2	0.0	0.0
2	Acrylamide	120.6	0.0	0.0	0.0	0.0
4	Acrylic acid and its water-soluble salts	1,391.3	0.0	0.0	0.0	0.0
7	n-Butyl acrylate	1,826.0	0.0	0.0	0.0	0.2
9	Acrylonitrile	43,014.9	7.8	0.0	0.0	7.9
13	Acetonitrile	107.9	0.2	0.6	0.0	3.7
20	2-Aminoethanol	2.6	0.0	0.0	0.0	0.0
28	Allyl alcohol	5.5	0.0	0.0	0.0	3.9
30	n-Alkylbenzenesulfonic acid and its salts (limited to those with 10 to 14 alkyl group carbons and their mixtures)	1,122.9	0.0	0.0	0.0	0.0
36	Isoprene	107,862.6	0.5	0.0	0.0	2.5
71	Ferric chloride	1.1	0.0	0.0	0.0	0.0
80	Xylene	15.5	0.0	0.0	0.0	0.0
83	Cumene	2.4	0.0	0.0	0.0	0.0
86	Cresol	21.7	0.3	0.0	0.0	0.1
150	1,4-Dioxane	6.9	0.0	0.0	0.0	0.0
186	Dichloromethane (also called methylene chloride)	11.4	1.8	0.0	0.0	7.2
190	Dicyclopentadiene	14,912.0	0.1	0.0	0.0	23.9
202	Divinylbenzene	23.2	0.0	0.0	0.0	0.0
203	Diphenylamine	2.4	0.0	0.0	0.0	0.0
207	2,6-di-tert-butyl-4-cresol (also called BHT)	736.7	1.1	0.0	0.0	99.0
220	Water-soluble salts of dimethyldithiocarbamic acid	57.8	0.0	0.0	0.0	0.0
230	N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine	261.1	0.0	0.0	0.0	0.0
234	Bromine	1,736.1	0.0	0.0	0.0	0.0
240	Styrene	127,075.1	20.4	0.0	0.0	8.7
274	Tert-dodecanethiol	990.9	0.2	0.0	0.0	0.9
276	3, 6, 9-triazaundecane-1, 11-diamine (also called tetraethylenepentamine)	9.8	0.0	0.0	0.0	1.1
300	Toluene	2,993.1	63.2	0.2	0.0	247.4
321	Vanadium compounds	40.5	0.0	0.0	0.0	39.7
330	Bis (1-methyl-1-phenylethyl) peroxide	13.4	0.0	0.0	0.0	0.0
337	4-Vinyl-1-cyclohexene	103.4	0.0	0.0	0.0	0.3
351	1,3-Butadiene	582,081.5	9.7	0.0	0.0	0.9
366	Tert-butyl hydroperoxide	7.1	0.0	0.0	0.0	0.0
392	n-Hexane	1,199.2	181.5	0.0	0.0	82.3
395	Water-soluble salts of peroxodisulfuric acid	572.2	0.0	0.0	0.0	0.0
405	Boron compounds	1.1	0.0	0.5	0.0	0.0
411	Formaldehyde	1.7	0.0	0.0	0.0	0.0
415	Methacrylic acid	84.8	0.0	0.0	0.0	0.0
417	2, 3-Epoxypropyl methacrylate	9.9	0.0	0.0	0.0	0.0
420	Methyl methacrylate	3,038.9	0.9	0.0	0.0	5.2
436	α-Methylstyrene	11,504.2	2.0	0.0	0.0	0.8
440	1-Methyl-1-phenylethyl hydroperoxide	110.0	0.0	0.0	0.0	0.5
	Total	903,080.7	289.8	2.5	0.0	536.4
243	Dioxins* ⁴	—	0.1478	0.0020	0.0000	0.0000

*1 Techno Polymer Co., Ltd. merged with UMG ABS Ltd. as of April 1st, 2018 and became Techno-UMG Co., Ltd.

*2 The handling amount represents the value after base deduction (1 ton/year per place of business)

*3 The transfer amount is the amount committed to intermediate waste service companies plus the amount discharged into public sewers

*4 Dioxin category unit: mg-TEQ

◆ Social Data

Human Resources Data								
		Boundary	Unit	FY2013	FY2014	FY2015	FY2016	FY2017
Consolidated number of employees		Group	Person	5,548	5,990	6,587	6,790	7,203
Employee ratios by region	Japan	Group	%	–	–	70	68	64
	Asia (excluding Japan)			–	–	20	18	19
	United States			–	–	8	9	13
	Europe			–	–	2	5	4

As of the end of each fiscal year (March 31)

		Boundary	Unit	FY2013	FY2014	FY2015	FY2016	FY2017	
Number of employees	Male	JSR Corporation	Person	2,743	2,782	2,824	2,858	2,883	
	Female			458	464	468	470	497	
	Total			3,201	3,246	3,292	3,328	3,380	
Number of hires	New graduates* ¹			Male	95	82	83	80	66
				Female	23	15	6	15	15
				Total	118	97	89	95	81
	Mid-career			Male	22	32	62	19	23
				Female	4	7	8	3	4
				Total	26	39	70	22	27
Average number of years of continuous service	Male	Year	12.9	13.4	13.2	13.0	13.2		
	Female		13.0	13.6	14.2	14.8	15.1		
	Total		12.9	13.4	13.3	13.2	13.5		
Rate of separations within three years of joining company		JSR Corporation	%	6.3	4.2	3.4	2.1	1.1	

As of the end of each fiscal year (March 31)

*1 As of the beginning of each fiscal year (April 1)

Annual Total Working Hours/Annual Total Overtime Hours								
		Boundary	Unit	FY2013	FY2014	FY2015	FY2016	FY2017
Per-person total working hours		JSR Corporation	Hour	–	–	1,986	1,977	1,966
Per-person total overtime hours				–	–	231	225	215

Education/Training and Overseas Assignments								
		Boundary	Unit	FY2013	FY2014	FY2015	FY2016	FY2017
Per-person total training hours* ²		JSR Corporation	Hour	–	–	18.8	17.7	16.8
Number of employees sent to overseas training		JSR Corporation	Person	–	–	12	12	9

*This total was calculated by including technology and skill training, employee level-based training, and other training organized by human resources departments. It therefore does not include hours spent in education provided by organizations other than human resources departments, education provided independently by individual departments, or external education.

◆ Social Data

Diversity Development								
		Boundary	Unit	FY2013	FY2014	FY2015	FY2016	FY2017
Percentage of women hired annually per position ^{*1}	College graduates, engineering positions	JSR Corporation	%	20	9	15	20	18
	College graduates, administrative position			20	33	60	50	45
Percentage of women in managerial positions ^{*1}				4.0	3.8	3.6	3.8	4.1
Career Re-Entry System	Registered	JSR Corporation	Person	7	8	4	5	4
	Rehired			0	0	0	1	1
Hiring of foreign nationals		JSR Corporation	Person	–	–	9	10	7
Employment rate of individuals with disabilities		JSR Corporation	%	2.19	2.28	2.23	2.32	2.47

As of the end of each fiscal year (March 31)

*1 As of the beginning of each fiscal year (April 1)

Work-Life Management Data									
Number of work-balance support benefit users		Boundary	Unit	FY2013	FY2014	FY2015	FY2016	FY2017	
Fertility treatment	Shortened working hours	JSR Corporation	Person	0	0	0	0	1	
Childbirth	Prenatal & postpartum maternity leave system ^{*3}			14	15	20	23	20	
	Childcare leave system ^{*3}			Female	15	18	20	19	24
				Male	6	2	5	11	41
				Total	21	20	25	30	65
Balancing work and childcare	Extended childcare leave counseling			17	13	12	14	14	
	Shortened working hours ^{*4}			79	77	81	87	91	
Balancing work and nursing care	Work from home ^{*4}			12	11	10	10	9	
	Shortened working hours			0	3	4	2	3	
Other	Work from home			0	0	2	1	1	
	Nursing-care leave ^{*3}			2	1	6	3	8	
	Extended nursing-care leave			0	0	1	1	0	
Other	Lending of mobile devices with remote access to the company network			4	3	2	4	4	
	Discretionary labor system ^{*1}	107	107	103	107	108			
	Special volunteer leave(The value in parentheses represents the total number of leave days taken)	4 (10)	3 (5)	4 (11)	3 (7)	0 (–)			

As of the end of each fiscal year (March 31)

*1 As of the beginning of each fiscal year (April 1)

*3 Per employee request, mobile devices with remote access to the company network are provided under this benefit.

*4 Number includes pregnant benefit users.

◆ Social Data

Number of employees eligible for work-balance support allowances	Boundary	Unit	FY2013	FY2014	FY2015	FY2016	FY2017
Extended childcare leave allowance	JSR Corporation	Person	21	18	25	26	67
Post-childcare leave reinstatement allowance			19	23	15	19	16
Daycare allowance			6	2	5	6	7

As of the end of each fiscal year (March 31)

Workplace Accidents								
		Boundary	Unit	FY2013	FY2014	FY2015	FY2016	FY2017
Number of Workplace Accidents	JSR Corporation	Same as shown at left	Accident	3	1	1	0	2
	Group companies			1	1	2	1	1
	Manufacturing partners of JSR or Group			2	2	2	3	4
Accidents requiring time off from work (frequency per year) ^{*6}			–	0.67	0.22	0.22	0.00	0.48

*5 Figures for 2013 and 2014 are fiscal year figures.

*6 Frequency = (Deaths or injuries in workplace accidents resulting in absence from work ÷ total working hours for all employees) x 1

◆ Governance Data

Corporate Governance									
			Boundary	Unit	FY2013	FY2014	FY2015	FY2016	FY2017
Number of directors	Inside	Male	JSR Corporation	Person	4	4	5	4	4
		Female			0	0	0	0	0
		Total			4	4	5	4	4
	Independent outside	Male			3	3	3	3	3
		Female			0	0	0	0	0
		Total			3	3	3	3	3
	Total				7	7	8	7	7
Number of directors concurrently serving as executive managing officers			JSR Corporation	Person	2	2	3	3	3
Ratio of directors concurrently serving as executive managing officers			JSR Corporation	%	29	29	38	43	43
Ratio of independent outside directors			JSR Corporation	%	43	43	38	43	43
Ratio of female directors			JSR Corporation	%	0	0	0	0	0
Number of audit & supervisory board members	Inside	Male	JSR Corporation	Person	1	1	1	1	1
		Female			0	0	0	0	0
		Total			1	1	1	1	1
	Independent outside	Male			1	1	1	1	1
		Female			1	1	1	1	1
		Total			2	2	2	2	2
	Total				3	3	3	3	3
Ratio of independent outside audit & supervisory board members			JSR Corporation	%	67	67	67	67	67
Ratio of female audit & supervisory board members			JSR Corporation	%	33	33	33	33	33
Average age of directors and audit & supervisory board members			JSR Corporation	Age	63	63	62	63	64
Regulation of maximum age of directors			JSR Corporation	Age	none	none	none	none	none
Term of directors			JSR Corporation	Year	1	1	1	1	1
Number of officers*	Male	JSR Corporation	Person	22	22	20	20	22	
	Female			0	1	1	1	1	
	Total			22	23	21	21	23	
Term of officers			JSR Corporation	Year	1	1	1	1	1
Number of CSR Committee members			JSR Corporation	Person	8	8	9	8	8

*Does not include directors concurrently serving as executive managing officers.

◆ Governance Data

Directors' and Audit & Supervisory Board members' remuneration								
		Boundary	Unit	FY2013	FY2014	FY2015	FY2016	FY2017
Directors' remuneration	Basic remuneration (Outside directors)	JSR Corporation	Million yen	195	188	196	234	223
				(36)	(36)	(38)	(40)	(40)
	Bonuses for the fiscal year (Outside directors)			31	39	21	48	69
				(-)	(-)	(-)	(-)	(-)
	Restricted stock shares as remuneration (Outside directors)			-	-	-	-	28
				(-)	(-)	(-)	(-)	(-)
Stock-based remuneration (stock option) (Outside directors)	34	29	30	34	9			
	(-)	(-)	(-)	(-)	(-)			
Total (Outside directors)	260	256	247	316	329			
	(36)	(36)	(38)	(40)	(40)			
Audit & Supervisory Board members' remuneration	Basic remuneration (Outside directors)	JSR Corporation	Million yen	39	37	43	45	45
				(12)	(10)	(15)	(17)	(17)
	Bonuses for the fiscal year (Outside directors)			-	-	-	-	-
				(-)	(-)	(-)	(-)	(-)
	Restricted stock shares as remuneration (Outside directors)			-	-	-	-	-
				(-)	(-)	(-)	(-)	(-)
Stock-based remuneration (stock option) (Outside directors)	-	-	-	-	-			
	(-)	(-)	(-)	(-)	(-)			
Total (Outside directors)	39	37	43	45	45			
	(12)	(10)	(15)	(17)	(17)			

Independent Auditors								
		Boundary	Unit	FY2013	FY2014	FY2015	FY2016	FY2017
Remuneration to auditing certified public accountants, etc.	Remuneration based on audit and attestation services	JSR Corporation and consolidated subsidiaries	Million yen	64	63	69	68	91
	Remuneration based on non-audit services			0	0	16	5	0

◆Policy / Guidelines / Philosophy

Environment

Environment and Safety Management Policy

JSR Group developed its Environment Safety Management Policy promotion items with reference to management policies based on our responsibility to stakeholders and the Japan Chemical Industry Association's policies on the environment and safety.

Promotion Items and Policy

1. Development of safety-focused and environmentally friendly products

When developing new products, JSR Group evaluates the environmental, safety and health impact at every stage from research and development to production, transport, use and disposal, and makes the utmost effort to provide products that take such evaluations into consideration.

2. Provide safety and environmental information related to products

JSR Group sets in place a system for the management of product-related safety and environmental information, and provides Safety Data Sheets (SDS) to customers and yellow cards to transporters as necessary.

3. Preserve the environment and assure safety for local residents

JSR Group takes a positive approach in its measures for preserving the global environment, facility safety, and protection against major earthquakes, taking into consideration the impact its business activities have on the environment. JSR Group's objective is to earn even greater trust at its business locations.

4. Reduce environmental impact

JSR Group conducts studies on the environmental impact of chemical substances and works toward the systematic reduction of emissions. JSR Group engages in thorough efforts to reduce sources of emissions, reuse materials, and recycle resources in order to reduce environmental impact.

5. Assure safety and environmental preservation in international operations

JSR Group cooperates with cross-border transfers of environmental and safety technologies. Regarding corporate activities overseas, JSR Group strictly complies with the regulations of Japan and other nations, and makes every effort to assure safety and environmental compliance at each operating site outside Japan.

6. Ensure employee health and safety

Constantly at work on the pre-assessment of safety matters related to chemical substances and their handling, JSR Group is dedicated to improving operations and facilities, and to creating a healthy and safe workplace environment.

Philosophy concerning Climate Change

JSR Group's Environment and Safety Management Policy establishes its philosophy concerning the environment, safety, and health and includes climate change.

1. Development of safety-focused and environmentally friendly products

When developing new products, JSR Group evaluates the environmental, safety and health impact at every stage from research and development to production, transport, use and disposal, and makes the utmost effort to provide products that take such evaluations into consideration.

Philosophy concerning Industrial Waste Reduction

JSR Group's Environment and Safety Management Policy establishes its philosophy concerning waste.

1. Development of safety-focused and environmentally friendly products

When developing new products, JSR Group evaluates the environmental, safety and health impact at every stage from research and development to production, transport, use and disposal, and makes the utmost effort to provide products that take such evaluations into consideration.

Philosophy concerning Biodiversity Conservation

JSR Group has formed biodiversity policies based on issues identified through conservation activities conducted in the past. We are currently promoting various activities in accordance with these policies.

JSR Group Biodiversity Policies

To contribute to the establishment of a sustainable society, JSR Group strives to identify how our business activities depend on and impact biodiversity, and to promote efforts in consideration of biodiversity.

1. We prioritize biodiversity conservation in procuring naturally derived raw and processed materials.
2. We work to make the green spaces of our business establishments biodiversity-friendly.
3. We strive to develop biodiversity-friendly products.
4. We emphasize staff engagement and cooperation with local communities.

established in April 2012

Social

Philosophy concerning Human Rights

Philosophy concerning Respect for Human Rights

JSR Group's Principles of Corporate Ethics establish its philosophy concerning human rights.

Code of Conduct for Respecting Human Rights

❶ We will respect and uphold basic human rights, such as the Universal Declaration of Human Rights, declared internationally and protected under constitution and legal precedents of respective countries, and will not infringe basic human rights.

Code of Conduct for Fair and Proper Transactions

❷ With regard to purchase transactions, we shall conduct transactions that are fair, transparent, and based on economic rationality, as well as consider our responsibility to society, such as compliance with laws and ordinances, protection of resources, environmental conservation, safety and human rights.

Code of Conduct for Providing a Comfortable Work Environment

❸ In the event that a staff member reports the violation or possible violation of the law and/or the Principles of Corporate Ethics to his/her superiors and/or internal/external hotline, we shall fully protect the said staff member's identity and protect him or her from unfavorable treatment.

The JSR Group Principles of Corporate Ethics, revised in October, 2017.

Philosophy concerning Inhumane Acts (Harassment)

JSR Group's Principles of Corporate Ethics establish its philosophy concerning inhumane acts (harassment).

Code of Conduct for Providing a Comfortable Work Environment

❹ We shall provide a workplace free from sexual harassment and any harassment arising from positions of power. In addition, we will not engage in or make verbal comments with sexual connotations that will make counterparts feel uncomfortable.

The JSR Group Principles of Corporate Ethics, revised in October, 2017.

Philosophy concerning Prevention of Discrimination

JSR Group's Principles of Corporate Ethics establish its philosophy concerning prevention of discrimination.

Code of Conduct for Providing a Comfortable Work Environment

- ① We shall ensure the fair treatment of employees, based on each person's tasks, roles, and level of commitment.
- ③ We shall respect the human rights and diverse characteristics of all individuals, and shall not discriminate against gender, age, nationality, race, ethnic group, origin, religion, beliefs, social status, physical disability or other relevant conditions when determining employment status and/or working conditions.
- ④ We shall not force religion and/or belief on others.

The JSR Group Principles of Corporate Ethics, revised in October, 2017.

Philosophy concerning Child Labor and Forced Labor

JSR Group's Principles of Corporate Ethics establish its philosophy concerning child labor and forced labor.

Code of Conduct for Respecting Human Rights

- ③ We shall never allow child labor or forced compulsory labor, whether at the JSR Group or in the workplaces of business partners and collaborating companies.

The JSR Group Principles of Corporate Ethics, revised in October, 2017.

Philosophy concerning Collective Bargaining

JSR Group enters into labor agreements with labor unions based on its Principles of Corporate Ethics, which establish its philosophy concerning collective bargaining.

Code of Conduct for Respecting Human Rights

- ② We will abide by national and international labor codes and respect workers' right of association and right for collective negotiation in the realm of basic labor rights.

The JSR Group Principles of Corporate Ethics, revised in October, 2017.

Philosophy concerning Customers

JSR Group's Management Policies establish its philosophy concerning its customers.

Management Policies

Responsibility to Our Stakeholders

Responsibility to Our Customers / Business Partners

- Constantly evolve to meet the demand for new materials
- Always strive to increase customer satisfaction
- Act in good faith and maintain fair and equitable business relations
- Continue to be socially and environmentally conscious throughout the supply chain

Philosophy concerning Social Contribution

JSR Group has been involved in various social contribution programs with a focus on community activities. In January 2009 we established our "Basic Approach to Social Contribution" as a philosophy aimed at further strengthening our activities. We are currently implementing the initiatives outlined in this philosophy.

Basic Philosophy concerning Social Contribution

- (1) Our Corporate Mission dictates that we contribute to society through our business activities. Further, we are actively engaged in providing solutions to social requirements and issues as a responsible member of society.
- (2) We are continuously engaged in positive social contribution activities, capitalizing on the chemical and technical knowledge and skills that form the core of JSR business.
- (3) Every employee is a point of contact between the Company and society, and we actively support our employees in their voluntary participation in social contribution activities.

Basic Approach to Social Contribution, established in January 2009

Fundamental Philosophy concerning Employees

Fundamental Human Resource Philosophy

JSR Group drives its organization and personnel forward based upon the following measures:

1. Develop mechanisms and a corporate culture with a healthy balance of 'Freedom' and 'Discipline,' guided by the Course of Action's 4Cs to enable managers and junior staff to grow together, help all employees accurately perceive and solve issues in order to foster a JSR that not only maintains its organizational capacity, but ensures its future growth.
2. Promote the globalization of JSR corporation employees while developing a globalized workforce within JSR Group as well as train and manage the Group's human resources on a global level.
3. Generate synergies which take full advantage of the increasing range of diversity (in terms of nationality, culture, gender, values, etc.) throughout JSR Group's vast human resource pool.

Course of Action: 4C

CHALLENGE

All employees of JSR Group should share a common global focus and desire to succeed. Employees should feel confident to autonomously take on new challenges, and learn from success while viewing setbacks as opportunities for growth and improvement.

COMMUNICATION

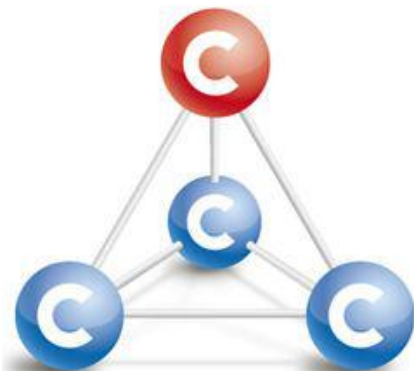
All employees of JSR Group should base their actions on the common fundamental values of JSR Group, strive for organizational transparency, and maintain open, direct communication as the best means of sharing values and achieving common goals.

COLLABORATION

All employees of JSR Group will work together in the spirit of cooperation, valuing common, corporate goals over internal or departmental barriers. Employees will also be encouraged to actively collaborate with external resources and to not be bound by conventional ideas.

CULTIVATION

All employees of JSR group will be supported by a work environment that provides opportunities for, and encourages bi-directional communication between managers and subordinates in order for them to develop together as individuals and members of productive, supportive teams.



CHALLENGE
COMMUNICATION
COLLABORATION
CULTIVATION

Human Resource Development Philosophy

We are working on human resource development with the understanding that it is the greatest priority for achieving sustainable, long-term corporate growth. In particular, we are promoting human resource development in order to strengthen our organizational capacity by implementing the Course of Action "The 4Cs" - "Challenge," "Communication," "Collaboration," and "Cultivation" - of our Course of Action at a higher level, and with focus on "skill/know-how" and "awareness/motivation."

Human Resources = Skill and Know-How x Motivation

As a key goal, we will also strengthen our employees' international communication abilities.

(1) Human Resource Development Policy

1. Respect each employee's desire for personal growth and provide adequate support for employees who take the initiative to raise their skills and develop their careers.
2. Based on the idea that the development of employee skills is the foundation of a company, make "growth through work" a primary consideration and, from a long-term perspective, conduct systematic, planned, and continuous training at all group companies to support this.

(2) Types of Personnel Sought by JSR

All Employees

1. Professionals who are competitive on a global level in all areas of their responsibility.
2. Individuals who are willing to take on new challenges and who respond flexibly to changes in the environment, supporting innovation and advancement without settling for the status quo.
3. Team players with high ethical standards who emphasize communication, collaboration, cultivation, and taking on challenges.

Management

4. Supervisors who can delegate work and responsibilities to their junior staff while also leading by example, always mindful of organizational management and human resource development.
5. Leaders who effectively oversee the achievement of organizational goals and can also lead reforms.

Work-Life Management Philosophy

JSR is actively promoting its Work-Life Management initiative. Employees are encouraged to not only develop work-related skills, but to also actively participate in social, and personal activities (e.g., social and community groups, family, volunteer activities, self-development, and hobbies). JSR believes that by encouraging our employees to become well-rounded individuals, and by finding a personal sense of self-fulfillment and satisfaction that they will then be able to bring that energy into their work.

JSR encourages all of our employees to closely manage their personal time and maintain a balanced work schedule. We are also working on implementing various systems that support flexible work styles, with special consideration for childbirth, childcare and family-nursing needs.

Work-life management is vital in the implementation of diversity management, because in order to create an organization with a diverse workforce, we must also promote a corporate culture that is open to diverse values and work styles.

Philosophy concerning Employees' Mental and Physical Health

JSR feels that a healthy mind and body are extremely important for employees and their families to live happy lives. We also feel that they are imperative in the creation of a productive and vibrant workplace. Because of this, we have adopted various measures to help our employees work in good health, both mentally and physically.

JSR Workers' Union Policies

With the search for affluence as its guiding principle, the JSR Workers' Union works to:

- (1) Negotiate wages
- (2) Improve workplace environments
- (3) Improve welfare
- (4) Publicize leisure, public relations, and volunteer activities
- (5) Promote union activities

Governance

Philosophy of Corporate Governance

It is JSR Group's goal to make steady progress in realizing its corporate mission (Materials Innovation: We create value through materials to enrich society, people and the environment).

This shall be done through efficient and transparent business management by sustaining sound and healthy business practices. The Group will also continuously strive to create new corporate values with the hope of becoming an attractive corporation that can earn the trust of and satisfy the interests of all our stakeholders.

The Group will also continuously strive to create new corporate values with the hope of becoming an attractive corporation that can earn the trust of and satisfy the interests of all our stakeholders.

For the purpose of achieving sustainable growth and enhance mid-long term corporate value and in response to the corporate governance code, the Group has been endeavoring to further develop systems that ensure prompt management decisions while maintaining transparency and fairness thereof and satisfying accountabilities to stakeholders.

Code of Corporate Conduct and Ethics

JSR Group has established a Code of Conduct as the rules that all JSR Group companies, their directors and employees (full-time, contract, part-time, and temporary employees as well as employees on short-term contracts) should comply with, in order to execute the management policies "Our Responsibility to our Stakeholders" in engaging in business activities. JSR Group shall not require its directors or employees to act in violation of the Code of Conduct. Additionally, JSR Group shall not disadvantage any director or employee who refuses to execute an order to perform an act that is in violation of the Code of Conduct for the reason of said refusal.

Please click on the following link for the English version of the JSR Group Principles of Corporate Ethics.

http://www.jsr.co.jp/pdf/csr/CoC_en.pdf

Code of Conduct for Gifts and Entertainment

JSR Group establishes “standards concerning gifts and entertainment” and “regulations concerning compliance with anticorruption laws” based on the philosophies concerning prohibition of bribery and corruption established in the JSR Group Principles of Corporate Ethics.

Code of Conduct for Gifts and Entertainment

❶ Whether inside or outside the country, we shall not give gifts to and/or entertain politicians, government officials or other relevant parties in a manner that may generate profits through illegal means or violate bribery regulations.

❷ When making contributions to political figures/parties or other organizations, we shall do so in a proper manner and observe all applicable laws and regulations, such as the Political Funds Control Law.

❸ We shall not give or receive gifts and provide or receive entertainment to or from customers, suppliers and other stakeholders, which may be regarded as bribery or unfair acts. We shall not be involved in the exchange of gifts or entertainment that may go beyond the accepted social norms.

❹ Within the JSR Group, we shall not give and/or receive gifts and/or provide entertainment.

The JSR Group Principles of Corporate Ethics, revised in October, 2017.

Philosophy concerning Antisocial Forces

JSR Group’s Principles of Corporate Ethics establish its philosophy concerning relations with antisocial forces.

Code of Conduct against Antisocial Forces

Our basic policy, upheld by our top executive and company as a whole, is to reject any relation with antisocial forces including any business transactions, and firmly reject any demand with collaboration from police and external organizations specialized in security issues.

The JSR Group Principles of Corporate Ethics, revised in October, 2017.

Philosophy concerning Whistleblower Protection

JSR Group's Principles of Corporate Ethics establish its philosophy concerning the protection of whistleblowers.

Code of Conduct for Providing a Comfortable Work Environment

⑦ In the event that a staff member reports the violation or possible violation of the law and/or the Principles of Corporate Ethics to his/her superiors and/or internal/external hotline, we shall fully protect the said staff member's identity and protect him or her from unfavorable treatment.

The JSR Group Principles of Corporate Ethics, revised in October, 2017.

Information Security Policy

JSR Group adopted an Information Security Policy and is working to implement appropriate information management by informing all personnel of the policy.

Information Security Policy

- The JSR Group (the corporate group consisting of JSR Corporation and its subsidiaries) will observe laws and other social norms relating to the handling of information belonging to the Group and its customers, business partners, and other third parties, and will protect that information in appropriate ways.
- The JSR Group will strive to develop and actively use its information assets for the efficient execution of its business. The Group's officers and employees will only use these information assets for the purposes of their work and within the scope of their authority.
- The JSR Group will improve organizations and systems, provide education on information security, thoroughly disseminate this policy and related regulations, and implement measures to ensure information security.
- The JSR Group will implement appropriate human, organizational, and technological measures and work to prevent unauthorized access to information assets from outside the company, as well as leaks, falsification, loss, theft and destruction of information assets.
- If an information security-related problem occurs, the JSR Group will promptly identify the cause and take measures to minimize damage and prevent recurrences.
- The JSR Group will periodically assess and review its information security measures to respond appropriately to changes in external environments.

Philosophy concerning Directors' Remuneration

JSR has set policies on remuneration of directors as follows: the remuneration scheme should increase corporate value over the medium and long-term, attract diverse and superior personnel, be linked to short-term, medium-term and long-term business performance, have management and shareholders share profits, and ensure high transparency. Remuneration for directors consists of fixed basic remuneration, an annual bonus linked to the attainment level of business performance in each fiscal year, a medium-term business performance-based bonus linked to the attainment level of the medium and long-term business performance, and restricted stock shares as remuneration designed to facilitate earlier sharing of corporate values between directors and the shareholders of the Company. In light of their roles, remuneration for outside directors and audit & supervisory board members consists of basic remuneration only.

JSR has established the Nomination Advisory Committee of which majority members are independent outside directors and the chair of which is an independent outside director to ensure the transparency of the policy and procedures of nominating candidates for directors. The committee deliberates criteria for the size, diversity in breadth of knowledge, experience, and capability necessary for the Board of Directors as well as criteria and procedures for nominating and/or identifying candidates for future appointment as president, directors, officers with directorship status (including senior officers), and audit & supervisory board members, and submits its findings to Board of Directors.

Policy and Procedures for Nominating Candidates for Appointment as Directors or Audit & Supervisory Board Members

JSR has established the Remuneration Advisory Committee of which majority members are independent outside directors and the chair of which is an independent outside director in order to ensure the objectivity and transparency of its directors' remuneration scheme. The committee deliberates the policy of remuneration, the remuneration structure, the mechanism of performance-based remuneration, the setting of targets, and assessment of performance, and submits its findings to the Board of Directors.

Items concerning Directors' Conflicts of Interest and Transactions with Related Parties

(1) In accordance with the Companies Act and JSR's "Regulations of the Board of Directors", JSR has obtained the Board of Directors' prior approval for competitive and conflict-of-interest transactions and reported important facts regarding such transactions to the Board of Directors after completion.

(2) In accordance with applicable laws and regulations, JSR has disclosed the outline of transactions with related parties in notes to consolidated financial statements of the Securities Report and notes to non-consolidated financial statements of the ordinary general meeting of shareholders.

(3) JSR has been determining the terms and conditions for the transactions with major shareholders by negotiating prices considering market conditions in the same way as it deals with third parties.

Please click on the following link for the Corporate Governance Report.

http://www.jsr.co.jp/jsr_e/pdf/company/governance.pdf



JSR Group CSR Report 2018 Independent Review Report

July 18, 2018

To: Mitsunobu Koshiba
Representative Director and President,
JSR Corporation

■ Objective of Verification

This Responsible Care® report verification is performed by the Responsible Care Verification Center with respect to the “JSR Group CSR Report 2018 (Online Version)” (hereinafter, “Report”), with the objective of verifying the following and reporting opinions from the perspective of an independent third-party specialist in the chemical industry.

- 1) The reasonableness of the calculation and aggregation methods of performance indices (numerical data) and the accuracy of the numerical data
- 2) The accuracy of information other than numerical data
- 3) Responsible Care and CSR activities
- 4) Characteristics of the Report

■ Verification Methodology

- At the Head Office: An inspection concerning the reasonableness of the aggregation method of numerical data reported from each site (office, plant) as well as the accuracy of information other than numerical data. It was conducted by interviewing relevant business managers and Report editors concerning the content as well as receiving necessary documents and explanation.
- At the Yokkaichi Plant: An inspection concerning the reasonableness of the calculation methods of numerical data reported to the Head Office and the accuracy of numerical data as well as the accuracy of information other than numerical data. It was conducted by interviewing relevant business managers and Report editors, receiving necessary documents and explanations, and checking them against evidence.
- The numerical data and other information provided in the Report were inspected by sampling.

■ Opinion

- 1) The reasonableness of the calculation and aggregation methods of performance indices (numerical data) and the accuracy of the numerical data
 - Reasonable methods were adopted for the calculation and aggregation of numerical data at both the Head Office and the Yokkaichi Plant.
 - Within the inspection, the numerical data are calculated and aggregated accurately.
 - It should be noted that the scope of the inspection contains data for Scope 1 to 3 for greenhouse gas emissions, and we confirm that the data are aggregated accurately based on received materials.
- 2) The accuracy of information other than numerical data
 - Information provided in the Report is accurate. Some suggestions were given at the drafting stage concerning inappropriate expressions and difficult-to-understand text; however, all of those problems have been corrected in the current Report.
- 3) Responsible Care and CSR activities
 - We positively acknowledge the fact that information on workplace accidents, facility accidents, and external circumstances is being utilized to prevent similar accidents through its distribution to departments in charge in JSR and group companies and prompt communication to all employees via the intranet with efforts to share and spread it throughout the organization. Moreover, we positively acknowledge that consideration is being given to the necessity of safety education that is matched to the characteristics of specific age groups, which was identified as a result of recent workplace accidents, and that initiatives toward this end are commencing.

- We positively acknowledge the fact that a plan to complete safety measures by FY2020 is moving forward. This plan includes seismic retrofitting projects focused on high-pressure gas facilities in plants, installation of an earthquake early-warning system at all plants and offices, and, in response to the Great East Japan Earthquake, improvement of earthquake resistance and measures to prevent tsunami damage. We also positively acknowledge that crisis management training envisioning a major earthquake in Tokyo and BCP training for Group companies were provided in FY2017.
 - We positively acknowledge the fact that requests vis-à-vis the CSR Report and CSR Department are identified based on the reports of “CSR Report Presentation Meetings” that employees hold each year and are reflected in the preparation of the CSR Report and in CSR activities.
 - We positively acknowledge the fact that the Yokkaichi Plant maintained its current status of zero environmental complaints from FY2008 to FY2017.
- 4) Characteristics of the Report
- The Report includes a section titled “JSR Group ESG Data” that allows stakeholders to find ESG data at a glance.



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