Product **Environmental Aspects** Declaration http://www.jemai.or.jp AD-19-1099 EP and IJ printer (PCR-ID:AD-04) Date of publication May./20/2019 KONICA MINOLTA http://konicaminolta.com Marking technologies Electrophotographic Printer (EP) Please direct any inquiries 40 prints-per-minute(B/W) 40 prints-per-minute(color) Printing speed or comments to e-mail: Maximum copy paper A4 bt-environ@pub.konicaminolta.jp Non-stack ADU equipped Duplex copying Life Cycle Impact Consumption and discharge in a life cycle All the stage sum totals 1.222 Global warming(CO2equivalent):kg (1,062) 1.9 Acidification(SO₂equivalent):kg (1.6)23.575 Energy resources(crude oil equivalent):MJ (19, 539)*Figures in () indicated environmental impact including recycle effect *note3 Warming load CO₂ equivalent of each stage(kg) 1.100 998 1,000 bizhub C4000 900 800 700 600 500 400 300 167 Total of 960,000 sheets on the 200 100 30 12 16 assumption of five years usage. 0 Environmental impact by copypaper -100 %3: recycle effect -47 114 -200 is not included. Product Distribution Use Disposition/ Raw material Recycle production XThe picture is attached with options. Notes: 1. Original LCA data is available on PEIDS: Product Environmental Information Declaration Sheet, and Product Data Sheet. 2. Unified rules and requirements for EcoLeaf LCA, for intended product category, are available as a PCR: Product Category Rule. Visit EcoLeaf website under JEMAI homepage at http://www.ecoleaf-jemai.jp/eng/ for details. 3. Recycle Effect illustrates an indirect influence to other products/services. 4. Basic Units used for calculations are based on Japan domestic data at this time, due to a lack of base data to establish localized Basic Unit for overseas locations adequately. [Supplemental environmental information] Certified Environmental Standards Japan Eco Mark International Energy Star Program Conforming to Japanese Law on Promoting Green Purchasing PCR review was conducted by : PCR Deliberation Committee, January 01, 2008, Name of reprentative : Youji Uchiyama, University of Tsukuba Graduate School Third party verifier: The third party verifier * : Kazuo Naito

Programme operator: Japan Environmental Management Association for Industry, ecoleaf@jemai.or.jp

* In the case of an business entity certified as an Ecoleaf-data-collection system, the names of certification auditors are written.

Form 2 (F-02B-03) Product Environmental Information Data Sheet (PEIDS)

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D				-02B-03			unction DB version	2.1	Produ	ECO S			
Fo		Product vendor oLeaf registration no.			KONICAMINOLTA			Characterization	Factor DB version	2.1		品環境情報	
EC	corea	ai re	gistration	no.	AD-19-1099			http://www.jemal.or.jp					
	PC	Rn	name	EP and IJ printe		er Product type		bizhub C4000i					
	PC	CR-	-ID		AD-04		Product weight[kg]	32.6 Package[kg]		5.0	Weight total[kg]	37.6	
	_				Life Cycle Stage		Produ	uction			-		
In/O	ut ite	ms				Unit	Raw material	Product	Distribution	Use	Disposal	Recycle	
			Energy (Consi	umption	MJ	2.97E+03	5.75E+02	1.56E+02	1.98E+04	3.07E+01	-4.04E+03	
	-	-				Mcal	7.10E+02	1.37E+02	3.72E+01	4.74E+03	7.34E+00	-9.64E+02	
				Coal		kg	2.46E+01	3.45E+00	3.64E-04	6.65E+01	1.56E-01	-1.50E+01	
			Energy	_	ude oil (as a fuel)	kg	2.65E+01	3.98E+00	3.41E+00	1.55E+02	3.31E-01	-3.36E+01	
				_	tural Gas anium ore	kg	5.79E+00 4.79E-04	2.48E+00 2.33E-04	5.26E-02 2.47E-08	4.83E+01 3.59E-03	8.09E-02 1.06E-05	-4.27E+00	
			-	012		mg	4.792-04	2.33E-04	2.47 E-00	3.592-05	1.06E-05	-1.93E-04	
					Crude oil (as an ingredients)	kg	1.16E+01	0	0	1.26E+02	0	-3.89E+01	
					Iron ore	kg	1.74E+01	0	0	1.31E+01	0	-1.22E+01	
					Copper ore	kg	4.84E-01	0	0	0.00E+00	0	-1.52E-01	
	t J			_	Bauxite	kg	1.55E+00	0	0	1.09E+00	0	-1.06E+00	
	mptic	stible	Irces		Nickel ore	kg	3.08E-02	0	0	5.05E-02	0	-3.25E-02	
	onsu	xhau	resources		Chromium ore	kg kg	4.72E-02 9.00E-02	0	0	7.29E-02 7.76E-02	0	-4.80E-02	
	rce C he er	Ш	Material	-	Manganese ore Plumbous ore	kg kg	9.00E-02 1.92E-02	0	0	0 0	0	-1.21E-02 -4.53E-03	
	Resource Consumption from the environment		Material		Tin ore	кg kg	1.92E-02 0	0	0	0	0	-4.53E-03	
	₽, E				Zinc ore	kg	1.89E-01	0	0	0	0	-4.45E-02	
					Gold ore	kg	0	0	0	0	0	0	
					Silver ore	kg	0	0	0	0	0	0	
					Silica sand	kg	5.74E-01	0	0	1.54E-01	0	-1.52E-01	
					Rock salt	kg	7.85E+00	1.64E-03	0	2.72E+00	1.11E-02	-4.06E+00	
yses					Limestone	kg	3.56E+00	0	0	4.03E+00	1.56E-01	-2.01E+00	
Inventory analyses					Natural soda ash	kg	3.59E-02	0	0	0.00E+00	0	-7.37E-03	
ntory		Renewable			Wood	kg	6.82E+00	0	0	1.90E+02	0	-7.87E+01	
Inve		res	ources		Water	kg	1.31E+04	2.94E+03	2.76E-01	5.38E+04	1.27E+02	-7.49E+03	
		to Atmosphere to Water system			CO2	kg	1.63E+02	2.90E+01	1.11E+01	9.68E+02	1.59E+01	-1.56E+02	
					SOx	kg	1.39E-01	2.05E-02	6.10E-03	5.47E-01	8.53E-03	-9.67E-02	
					NOx N2O	kg kg	2.10E-01	2.01E-02	4.14E-02	1.40E+00	2.08E-02	-2.67E-01	
				-	CH4	kg kg	1.45E-02 1.25E-03	2.89E-03 6.23E-04	2.01E-03 6.60E-08	1.09E-01 9.58E-03	2.99E-05 2.83E-05	-1.76E-02 -4.99E-04	
					CO	kg kg	2.90E-02	4.33E-03	8.62E-08	9.58E-03	4.43E-03	-4.99E-04 -2.08E-02	
					NMVOC	kg	2.45E-02	1.22E-03	1.29E-07	1.87E-02	5.53E-05	-2.00E-02	
	ge ht				СхНу	kg	6.87E-03	4.82E-04	1.41E-03	3.53E-02	1.23E-04	-8.49E-03	
	schar				dust	kg	2.43E-02	8.84E-04	4.23E-03	9.39E-02	1.21E-03	-2.53E-02	
	n/Dis nviro				BOD	kg	-	-	-	-	-	-	
	nissio the e				COD	kg	-	-	-	-	-	-	
	En to			P total		kg	-	-	-	-	-	-	
						kg	-	-	-	-	-	-	
					SS	kg	-	-	-	-	-	-	
				Un	specified solid waste	kg	1.46E+00	1.01E-02	0	3.70E+01	1.36E+01	-2.57E+00	
		***	Soil system	-	Slag Sludge	kg kg	5.49E+00	0	0	3.99E+00	0	-3.55E+00	
		10 \$	oon system		Low emission	kg	3.10E+00	0	0	2.34E+00	0	-2.17E+00	
					radioactive waste	kg	3.35E-04	1.63E-04	1.72E-08	2.50E-03	7.37E-06	-1.35E-04	
	nsumption				Energy resources crude oil equivalent)	kg	5.31E+01	1.11E+01	3.47E+00	2.86E+02	6.15E-01	-4.99E+01	
tent	by Resource Con		xhaustible esources		Mineral resources Iron ore equivalent)	kg	1.53E+02	0	0	1.26E+02	0	-9.02E+01	
esm	-				Global warming	ka	1.67E+02	2.98E+01	1.16E+01	9.98E+02	1.59E+01	-1.60E+02	
asse	ptior		to	-	(CO2 equivalent) Acidification	kg							
Impact assesment	unsuu	At	tmosphere	*	(SO2 equivalent)	kg	2.86E-01	3.45E-02	3.51E-02	1.52E+00	2.31E-02	-2.83E-01	
Ē	Emision Consumption		to Water system										
	Emis	H	-										
	by E	to Soil system											

I. Stage related

- A. "Production" stage is intended for two sub-stages listed below.
- (1) "Raw material" production: consists of mining, transportation and raw material production.
- (2) "Product" production: consists of the parts processing, assembly and installation.
- B. "Distribution" stage is intended for transportation of produced product. Transportation of consumables and maintenance goods (e.g. replacement parts) for use of the product are included into "Use" stage.
- C. "Use" stage is intended for use of the product (active mode, standby mode, etc.) and production, transportation to disposal/recycle of consumables /maintenance goods (e.g. replacement parts).
- D. "Disposition/Recycle" stage is intended for environmental impacts by product disposition/recycle, and deduction by recycling (e.g. impact reduction of raw material production).
- E. "Recycle Effect" illustrates an indirect environmental influences to other products/services by use of reclaimed materials/parts, and/or by supply of used products to other businesses for material reclaim/parts reuse.
- Case 1: Use of reclaimed materials/parts: Sum of increase of environmental impact by collection activities of used materials/parts, and decrease by volume reduction of used materials/parts.
- Case 2: Supply of used products to other businesses for material reclaim/parts reuse: Sum of increase of environmental impact by materials/parts reclaiming process, and decrease by volume reduction of new materials/parts production.

II. Inventory analyses

- A. Data of mineral ore on "Exhaustible resources" are presented in weight of pure ingredients (e.g. iron, aluminum) in the ore.
- B. Data on energy resources are presented based on origin in calorific value. e.g. Data on uranium ore presents weight of uranium concentrate, which is available for use as an atomic fuel.
- C. Data of discharge to water system are in actual figure (not calculated using unit function in inventory analyses).

III. Impact analyses

Result of the "Impact analyses" is found in converting results of inventory analyses into total amount of a reference material

(e.g. CO2 in case of "Global Warming").

- A. Impact "by resource consumption" represents magnitude of impacts to resource depletion.
- B. Impact "by emission/discharge to environment" represents magnitude of impacts to Atmosphere, Water and Soil system.

IV. Data entry format

- A. Exponential notation, after the decimal point to two, should be used.
- B. Indicate "0" instead exponential notation, if the result of calculation or estimation is considered as "zero" or negligible in comparison to related results.
- C. Indicate "-" if calculation nor estimation can not be done, in order to differentiate to indicate "zero".
 (BGD for material production are for production from mineral ore. Those data do not include reclaiming processes like recovery from scrap.)

[Notes for readers: Target product specific]

- A. "Raw material" in "Production" includes environmental impacts generated during mining transportation material production phases of the main body of the printer and the toner cartridge enclosed in the printer. The environmental impacts are calculated using the eco-leaf basic unit DB for calculations.
- B. "Product" in "production" includes environmental impacts of processing of the parts (injection, blow-, press- and glass-molding). The environmental impacts from the parts assembly plant which is different from the main body assembly plant (such parts are clacified in "parts C") are calculated using the eco-leaf basic unit DB for calculations.

The impacts from the main body assembly plant are calculated using the quantitative data on environmental impacts in our assembly plant.

- C. Regarding the basis and the basic units for calculations during distribution stages The total distance of the transportation in Japan of 100km is used according to PCR (AD-04) and the transportation overseas includes the transportation by track in China and by ship between China and Japan.
- D. Regarding the basis and the basic units for calculations during use and consumption stage
 The power consumption is measured by the TEC test procedure according to PCR (AD-04).
 960,000 sheets are printed in total during the use period of five years.
 The toner consumption is summed up over the five years from the toner consumption data per sheet using our print pattern with 5% coverage.
 The production loads and the collection & recycling impacts of the toner cartridges used over the five years are included in this stage.
- E. The recycling impacts are calculated assuming that 40% of the end-of-life printers are recovered from users according to PCR (AD-04). The impacts are calculated with the remaining 60% following the disposal senario as general wastes.
- F. The impacts of material production of recycled materials are included in the values with minus as a recycling effect.

Form3 (F-03-03)

Product data sheet

Document control no. F-03-03	
Product vendor KONICAMINOLTA,INC.	
EcoLeaf registration no. AD-19-1099	境情報 jemai.or.jp
PCR name EP and IJ printer(PCR-ID:AD-04) Product type bizhub C4000i	
CA/LCIA in units o 1 Product weight[kg] 32.6 Package[kg] 5.0 Weight total[kg]	37.6

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	FOR name	EP and iJ printer (PCR-ID:AD-C	14)	Product type
	CA/LCIA in units o	1	Product weight[kg]	32.6
1	. Product informa	tion (per unit): parts etc. by material and by p	process/assembl	y method

	Breakdown o	f primary materials		Math breakdown of pa	irts, which need to apply	Processing / Assembly B	ase Units (Parts B, C)
Material name	Weight (kg)	Material name	Weight (kg)	Process name	Weight (kg)	Process name	Weight (kg)
Ordinary steel	1.67E+01	Rubber	1.19E-01	Press molding:Iron	1.52E+01		
Stainless steel	1.93E-01	Semiconductor circuit board	1.07E+00	Press molding:Nonfe rrous metal	1.66E+00		
Aluminium	1.37E+00			Injection molding	1.28E+01		
Other metals	2.96E-01						
Glass	1.12E-01						
Thermoplastic resin	1.31E+01						
Wood	2.70E+00						
Paper	1.93E+00						
Subtotal	3.64E+01	Subtotal	1.19E+00				
	Total		3.76E+01	Subtotal	2.96E+01	Subtotal	

2. Production site information (per unit): Consumption and discharge/emission for production/processing/assembly within the site. SOx and NOx should be indicated in SO2, NO2 equivalent.

c	Classification	Energy	Energy	Material	Material				
onsumption	Distribution	Electricity	Furnace urban	Industrial	Groundwater				
5	Distribution	(kWh)	gas (m ³)	water(kg)	(kg)				
suo	Quantity	2.84E+01	9.63E-01	2.68E+02	4.96E+01				
Ō	Note								
Emission/ Discharge	Classification	To Water system							
issi	Distribution	Sewage(kg)							
E a	Quantity	2.82E+02							
	Note								
3. Dis	tribution stage information	on (per unit): mea	ins, distance, loa	iding ratio, consi	umptions and em	nissions/discharg	jes.		
	Means of transportation	Freight by ship	Freight by ship	Freight by ship	Freight by ship	Diesel truck :20ton	Diesel truck :20ton	Diesel truck :20ton	Diesel truck :20ton
	Conditions	Load(kg•km)	Weight (kg)	Distance (km)	Loading Ratio(%w)	Load(kg•km)	Weight (kg)	Distance (km)	Loading Ratio(%w)
ы	Quantity	1.88E+05	3.76E+01	5.00E+03	1.00E+02	1.68E+04	3.76E+01	2.59E+02	5.78E+01
outi	Note								
Distribution	Means of transportation	Diesel truck :2ton	Diesel truck :2ton	Diesel truck :2ton	Diesel truck :2ton				
	Conditions	Load(kg•km)	Weight (kg)	Distance (km)	Loading Ratio(%w)				
	Quantity	1.50E+03	3.76E+01	7.50E-01	1.88E+00				
	Note								

4. Use stage (per unit): use condition (mode, term) including active mode, standby mode and maintenance.

	duct and accessories s								
L	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
Product	Distribution	Electricity (kWh)	Gasoline as fuel(kg)	Furnace urban gas (m ³)	Industrial water(kg)	Groundwater (kg)	Ordinary steel (kg)	Stainless steel (kg)	Aluminium (kg
ž	Quantity	4.93E+02	3.67E-01	1.98E+01	2.40E+02	2.26E+03	1.25E+01	3.18E-01	1.03E+00
H	Note	4.002102	0.07 2 01	1.502101	LITOLITOL	2.202100	1.202101	0.102 01	1.002100
	Classification	Consumption	Consumption	Consumption	Processing	Processing	Processing	Processing	
T	Distribution	Thermoplastic	Paper(kg)	Rubber (kg)	Press:lron(kg)	Press:	Injection	Blow molding	
Product	Quantity	resin(kg)		-	_	Nonferrous(kg)	molding(kg)	(kg)	
H	Note	1.27E+02	8.10E+01	7.42E-01	1.16E+01	1.22E+00	1.77E+01	1.60E+02	
_	NOLE								
	Classification	Assembly	To Water system						
Product	Distribution	Parts assembly (kg)	Sewage(kg)						
	Quantity	1.60E+02	1.96E+03						
F	Note								
	Classification	Distribution							
		Diesel truck:							
Product	Distribution	10ton (kg•km)							
r –	Quantity	3.96E+04							
H	Note	3.90E+04							
Die									
DIS	position/Recycle inform				_	_		_	_
H	Classification	Consumption	Consumption	Treatment	Treatment	Treatment	Treatment	Treatment	Treatment
Consumables	Distribution	Electricity (kWh)	Kerosene(kg)	Recycle: to iron(kg)	Recycle: to Aluminum(kg)	Recycle: to copper(kg)	Recycle: to plastics(kg)	Recycle: to Paper(kg)	Industrial waste destruction b fire(kg)
3 -	Quantity	6.21E+00	1.45E-01	5.14E+00	4.12E-01	0.00E+00	3.54E+01	3.94E+01	2.97E-01
	Note								
.	Classification	Treatment	Treatment	Treatment	Deduction	Deduction	Deduction	Deduction	Deduction
Consumables	Distribution	Industrial waste	Waste destruction by	Waste inning(kg)	lron(kg)	Aluminum(kg)	Copper(kg)	Plastics(kg)	Paper(kg)
SUC		inning(kg)	fire(kg)						
ŭ 📘	Quantity	3.57E-01	1.13E+02	1.23E+01	-5.14E+00	-4.12E-01	0.00E+00	-3.54E+01	-3.94E+01
	Note								
	Classification	Distribution	Distribution						
Seles			Distribution						
mar	Distribution	Diesel truck: 10ton	Diesel truck: 4ton						
Isumar	Distribution	Diesel truck: 10ton	Diesel truck:						
Consumables	Distribution	Diesel truck:	Diesel truck: 4ton						
Consumat		Diesel truck: 10ton (kg•km)	Diesel truck: 4ton (kg•km)						
-	Quantity Note	Diesel truck: 10ton (kg•km) 1.00E+04	Diesel truck: 4ton (kg•km) 1.21E+04						
-	Quantity Note psition/Recycle stage in	Diesel truck: 10ton (kg•km) 1.00E+04	Diesel truck: 4ton (kg•km) 1.21E+04 roduct): process						
ispo	Quantity Note	Diesel truck: 10ton (kg•km) 1.00E+04 formation (per p Consumption	Diesel truck: 4ton (kg•km) 1.21E+04	Treatment	Treatment	Treatment	Treatment	Treatment	Treatment
ispo	Quantity Note Disition/Recycle stage in Classification	Diesel truck: 10ton (kg•km) 1.00E+04 nformation (per p Consumption Electricity	Diesel truck: 4ton (kg•km) 1.21E+04 roduct): process Consumption	Treatment Recycle: to	Treatment Recycle: to	Treatment Recycle: to	Recycle: to	Recycle: to	Recycle: to
ispo	Quantity Note Distition/Recycle stage in Classification Distribution	Diesel truck: 10ton (kg•km) 1.00E+04 formation (per p Consumption Electricity (kWh)	Diesel truck: 4ton (kg•km) 1.21E+04 roduct): process Consumption Kerosene(kg)	Treatment Recycle: to iron(kg)	Treatment Recycle: to Aluminum(kg)	Recycle: to copper(kg)	Recycle: to Glass(kg)	Recycle: to plastics(kg)	Recycle: to Paper(kg)
ispo	Quantity Note Disition/Recycle stage in Classification	Diesel truck: 10ton (kg•km) 1.00E+04 nformation (per p Consumption Electricity	Diesel truck: 4ton (kg•km) 1.21E+04 roduct): process Consumption	Treatment Recycle: to	Treatment Recycle: to	Recycle: to	Recycle: to	Recycle: to	Recycle: to
-	Quantity Note Distition/Recycle stage in Classification Distribution	Diesel truck: 10ton (kg•km) 1.00E+04 formation (per p Consumption Electricity (kWh)	Diesel truck: 4ton (kg•km) 1.21E+04 roduct): process Consumption Kerosene(kg)	Treatment Recycle: to iron(kg)	Treatment Recycle: to Aluminum(kg)	Recycle: to copper(kg)	Recycle: to Glass(kg)	Recycle: to plastics(kg)	Recycle: to Paper(kg)
ispo	Quantity Note osition/Recycle stage in Classification Distribution Quantity	Diesel truck: 10ton (kg·km) 1.00E+04 formation (per p Consumption Electricity (kWh) 1.12E+00	Diesel truck: 4ton (kg•km) 1.21E+04 roduct): process Consumption Kerosene(kg) 2.62E-02	Treatment Recycle: to iron(kg) 6.81E+00	Treatment Recycle: to Aluminum(kg) 5.46E-01	Recycle: to copper(kg) 2.64E-01	Recycle: to Glass(kg) 4.49E-02	Recycle: to plastics(kg) 5.20E+00	Recycle: to Paper(kg) 2.00E+00
Consumables	Quantity Note osition/Recycle stage in Classification Distribution Quantity Note	Diesel truck: 10ton (kg*km) 1.00E+04 formation (per p Consumption Electricity (kWh) 1.12E+00 Treatment	Diesel truck: 4ton (kg-km) 1.21E+04 roduct): process Consumption Kerosene(kg) 2.62E-02 Treatment	Treatment Recycle: to iron(kg) 6.81E+00 Treatment	Treatment Recycle: to Aluminum(kg) 5.46E-01 Treatment	Recycle: to copper(kg)	Recycle: to Glass(kg) 4.49E-02 Deduction	Recycle: to plastics(kg)	Recycle: to Paper(kg)
Consumables	Quantity Note osition/Recycle stage in Classification Distribution Quantity Note	Diesel truck: 10ton (kg*km) 1.00E+04 formation (per p <u>Consumption</u> <u>Electricity</u> (kWh) 1.12E+00 <u>Treatment</u> Incineration: Industrial	Diesel truck: 4ton (kg·km) 1.21E+04 roduct): process Consumption Kerosene(kg) 2.62E-02 Treatment Landfill: Industrial	Treatment Recycle: to iron(kg) 6.81E+00 Treatment Incineration to landfill (as	Treatment Recycle: to Aluminum(kg) 5.46E-01 Treatment Landfill: General	Recycle: to copper(kg) 2.64E-01	Recycle: to Glass(kg) 4.49E-02	Recycle: to plastics(kg) 5.20E+00	Recycle: to Paper(kg) 2.00E+00
Consumables	Quantity Note Scition/Recycle stage in Classification Distribution Quantity Note Classification Distribution	Diesel truck: 10ton (kg·km) 1.00E+04 formation (per p Consumption Electricity (kWh) 1.12E+00 Treatment Incineration: Industrial waste(kg)	Diesel truck: 4ton (kg*km) 1.21E+04 1.21E+04 roduct): process Consumption Kerosene(kg) 2.62E-02 Treatment Landfill: Industrial waste(kg)	Treatment Recycle: to iron(kg) 6.81E+00 Treatment Incineration to landfill (as ash)(kg)	Treatment Recycle: to Aluminum(kg) 5.46E-01 Treatment Landfill: General waste(kg)	Recycle: to copper(kg) 2.64E-01 Deduction Iron(kg)	Recycle: to Glass(kg) 4.49E-02 Deduction Aluminium (kg)	Recycle: to plastics(kg) 5.20E+00 Deduction copper(kg)	Recycle: to Paper(kg) 2.00E+00 Deduction Glass(kg)
ispo	Quantity Note Distiton/Recycle stage in Classification Distribution Quantity Note Classification Distribution Quantity	Diesel truck: 10ton (kg*km) 1.00E+04 formation (per p <u>Consumption</u> <u>Electricity</u> (kWh) 1.12E+00 <u>Treatment</u> Incineration: Industrial	Diesel truck: 4ton (kg·km) 1.21E+04 roduct): process Consumption Kerosene(kg) 2.62E-02 Treatment Landfill: Industrial	Treatment Recycle: to iron(kg) 6.81E+00 Treatment Incineration to landfill (as	Treatment Recycle: to Aluminum(kg) 5.46E-01 Treatment Landfill: General	Recycle: to copper(kg) 2.64E-01 Deduction	Recycle: to Glass(kg) 4.49E-02 Deduction Aluminium	Recycle: to plastics(kg) 5.20E+00 Deduction	Recycle: to Paper(kg) 2.00E+00 Deduction
Consumables	Quantity Note Distribution Quantity Note Classification Distribution Distribution Distribution Quantity Note	Diesel truck: 10ton (kg·km) 1.00E+04 formation (per p Consumption Electricity (kWh) 1.12E+00 Treatment Incineration: Industrial waste(kg)	Diesel truck: 4ton (kg*km) 1.21E+04 1.21E+04 roduct): process Consumption Kerosene(kg) 2.62E-02 Treatment Landfill: Industrial waste(kg)	Treatment Recycle: to iron(kg) 6.81E+00 Treatment Incineration to landfill (as ash)(kg)	Treatment Recycle: to Aluminum(kg) 5.46E-01 Treatment Landfill: General waste(kg)	Recycle: to copper(kg) 2.64E-01 Deduction Iron(kg)	Recycle: to Glass(kg) 4.49E-02 Deduction Aluminium (kg)	Recycle: to plastics(kg) 5.20E+00 Deduction copper(kg)	Recycle: to Paper(kg) 2.00E+00 Deduction Glass(kg)
Consumables	Quantity Note Distiton/Recycle stage in Classification Distribution Quantity Note Classification Distribution Quantity	Diesel truck: 10ton (kg·km) 1.00E+04 formation (per p Consumption Electricity (kWh) 1.12E+00 Treatment Incineration: Industrial waste(kg)	Diesel truck: 4ton (kg*km) 1.21E+04 1.21E+04 roduct): process Consumption Kerosene(kg) 2.62E-02 Treatment Landfill: Industrial waste(kg)	Treatment Recycle: to iron(kg) 6.81E+00 Treatment Incineration to landfill (as ash)(kg)	Treatment Recycle: to Aluminum(kg) 5.46E-01 Treatment Landfill: General waste(kg)	Recycle: to copper(kg) 2.64E-01 Deduction Iron(kg)	Recycle: to Glass(kg) 4.49E-02 Deduction Aluminium (kg)	Recycle: to plastics(kg) 5.20E+00 Deduction copper(kg)	Recycle: to Paper(kg) 2.00E+00 Deduction Glass(kg)
Consumables Consumables	Quantity Note Distribution Quantity Note Classification Distribution Distribution Distribution Quantity Note	Diesel truck: 10ton (kg·km) 1.00E+04 formation (per p Consumption Electricity (kt/h) 1.12E+00 Treatment Inclueration: Industrial waste(kg) 3.08E-01	Diesel truck: 4ton (kg·km) 1.21E+04 roduct): process Consumption Kerosene(kg) 2.62E-02 Treatment Landfill: Industrial waste(kg) 8.88E-02	Treatment Recycle: to iron(kg) 6.81E+00 Treatment Incineration to landfill (as ash)(kg) 1.07E+01 Distribution Diesel truck: 10ton	Treatment Recycle: to Aluminum(kg) 5.46E-01 Treatment Landfill: General waste(kg) 1.18E+01 Distribution Diesel truck: 4ton	Recycle: to copper(kg) 2.64E-01 Deduction Iron(kg)	Recycle: to Glass(kg) 4.49E-02 Deduction Aluminium (kg)	Recycle: to plastics(kg) 5.20E+00 Deduction copper(kg)	Recycle: to Paper(kg) 2.00E+00 Deduction Glass(kg)
Consumables Consumables	Quantity Note Stition/Recycle stage in Classification Distribution Quantity Note Classification Quantity Note Classification	Diesel truck: 10ton (kg-km) 1.00E+04 formation (per p Consumption Electricity (kWh) 1.12E+00 Treatment Incineration: Industrial waste(kg) 3.08E-01 Deduction Plastics(kg)	Diesel truck: 4ton (kg-km) 1.21E+04 roduct): process Consumption Kerosene(kg) 2.62E-02 Treatment Landfill: Industrial waste(kg) 8.88E-02 Deduction Paper(kg)	Treatment Recycle: to iron(kg) 6.81E+00 Treatment Incineration to landfill (as ash)(kg) 1.07E+01 Distribution Diesel truck: 10ton (kg*km)	Treatment Recycle: to Aluminum(j) 5.46E-01 Treatment Landfill: General waste(kg) 1.18E+01 Distribution Disel truck: 4ton (kg+km)	Recycle: to copper(kg) 2.64E-01 Deduction Iron(kg)	Recycle: to Glass(kg) 4.49E-02 Deduction Aluminium (kg)	Recycle: to plastics(kg) 5.20E+00 Deduction copper(kg)	Recycle: to Paper(kg) 2.00E+00 Deduction Glass(kg)
Consumables	Quantity Note Distition/Recycle stage in Classification Distribution Quantity Note Classification Distribution Quantity Note Classification	Diesel truck: 10ton (kg-km) 1.00E+04 formation (per p Consumption Electricity (kWh) 1.12E+00 Treatment Incineration: Incineratio	Diesel truck: 4ton (kg-km) 1.21E+04 roduct): process Consumption Kerosene(kg) 2.62E-02 Treatment Landfill: Industrial waste(kg) 8.88E-02 Deduction	Treatment Recycle: to iron(kg) 6.81E+00 Treatment Incineration to landfill (as ash)(kg) 1.07E+01 Distribution Diesel truck: 10ton	Treatment Recycle: to Aluminum(kg) 5.46E-01 Treatment Landfill: General waste(kg) 1.18E+01 Distribution Diesel truck: 4ton	Recycle: to copper(kg) 2.64E-01 Deduction Iron(kg)	Recycle: to Glass(kg) 4.49E-02 Deduction Aluminium (kg)	Recycle: to plastics(kg) 5.20E+00 Deduction copper(kg)	Recycle: to Paper(kg) 2.00E+00 Deduction Glass(kg)

6. Others A. Product information:

All the parts mass per unit sorted by materials and by processes/assembly are included. The motor mass is included in ordinary steel.

B. Production site information:

The energy consumption & material use during the main body assemby and cartridge & toner shipment are included. The environmental impacts that are exhausted from the production site in the atmosphere and the water system are included.

C. Distribution stage information:

The total distance of the transportation in Japan of 100km is used according to PCR (AD-04) and the transportation overseas includes the transportation by track in China and by ship between China and Japan.

D. Product and accessories subject to this analysis:

The power consumption is calculated assuming the use period of five years and 960,000 sheets printed during the use period according to the PCR (AD-04). The toner consumption is summed up over the five years from the toner consumption data per sheet using our print pattern with 5% coverage.

The production impacts of the cartridges and toner used during the use period of five years are included. The impacts of the maintenance parts used and the transportation impacts of the maintenace during the use period of five years are included in this stage.

E. Disposal/Recycle information on the consumables and the maintenance parts during use stage:

The recycling information of the toner, the developer, the drums and the maintainance parts used during the use period of

five years are included . The recycling processing impacts are included as plus and the production impacts of the recycled materials are included as minus.

Treatment of copper and deduction of copper include copper of " assembled circuit board". Incineration of assembled circuit board is included "Incineration: Industrial waste".

F. Disposal/Recycle stage information:

The information on the products recovered from users is included.

The recycling processing impacts are included as plus and the production impacts of the recycled materials are included as minus.

Treatment of copper and deduction of copper include copper of " assembled circuit board" . Incineration of assembled circuit board is included "Incineration: Industrial waste".