bt-environ@pub.konicaminolta.jp

## Product **Environmental Aspects** Declaration http://www.jemai.or.jp EP and IJ printer (PCR-ID:AD-04) AD-19-1098 Date of publication May./20/2019 KONICA MINOLTA http://konicaminolta.com Marking technologies Electrophotographic Printer (EP) Please direct any inquiries Printing speed 40 prints-per-minute(B/W) 40 prints-per-minute(color) or comments to e-mail: Maximum copy paper A4

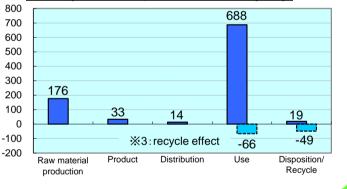
Duplex copying Non-stack ADU equipped

### Life Cycle Impact

Consumption and discharge in a life cycle	All the stage sum totals						
Global warming(CO <sub>2</sub> equivalent):kg	929						
Clobal warning(CO2cquivalent).kg	(814)						
Acidification(SO <sub>2</sub> equivalent):kg	1.4						
/ claineation (CO2cquivalent).kg	(1.2)						
Energy resources(crude oil equivalent):MJ	18,291						
Energy resources(crude on equivalent).wo	(15.652)						

%Figures in( )indicated environmental impact including recycle effect \*note3

Warming load  $CO_2$  equivalent of each stage (kg)



Notes:

bizhub C4050

is not included.

Total of 960,000 sheets on the

assumption of five years usage.

Environmental impact by copypaper

XThe picture is attached with options.

- 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 Independent verification of the declaration and data, according to ISO14025 imes internal mutecternal 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)

d Salvonmental As

E	Docum	nent c	ontrol no	p. F	-02B-03		Unit F	unction DB version	2.1	Produe	ECO	
	Pro	duct v	vendor	KONICA	MINOLT	ſA ,INC.	Characterization	Factor DB version	2.1		品環境情報	
Ec	coLea	f regis	stration r	IO. AD	-19-109	8					한미지국 사망 1月 千仪 p://www.jemai.or.jp	
	PCF	R nar	me	EP and IJ print	er	Product type			bizhub C4050i	1		
	-	R-I	-			Package[kg]	5.2	Weight total[kg]	43.7			
				Life Cycle Stage		Produ	uction	0105				
In/O	ut iter	ms			Unit	Raw material	Product	Distribution	Use	Disposal	Recycle	
		F	neray C	onsumption	MJ	3.22E+03	6.38E+02	1.83E+02	1.42E+04	3.60E+01	-2.64E+03	
					Mcal	7.69E+02	1.52E+02	4.38E+01	3.40E+03	8.61E+00	-6.30E+02	
				Coal	kg	2.48E+01	3.85E+00	4.28E-04	5.25E+01	1.83E-01	-1.40E+01	
			Energy	Crude oil (as a fuel)	kg	2.91E+01	4.43E+00	4.00E+00	1.02E+02	3.87E-01	-2.11E+01	
					Natural Gas Uranium ore	kg	5.65E+00 5.28E-04	2.69E+00 2.60E-04	6.18E-02 2.90E-08	3.97E+01 2.66E-03	9.49E-02 1.24E-05	-3.06E+00 -1.49E-04
					mg	J.20E-04	2.002-04	2.902-00	2.002-03	1.24E-03	-1.49E-04	
				Crude oil (as an ingredients)	kg	1.44E+01	0	0	8.27E+01	0	-2.31E+01	
				Iron ore	kg	1.94E+01	0	0	1.27E+01	0	-1.28E+01	
				Copper ore	kg	5.90E-01	0	0	0.00E+00	0	-1.89E-01	
	un t	۵		Bauxite	kg	5.57E-01 1.26E-01	0	0	1.09E+00	0	-6.57E-01	
	umpti	ustible		Nickel ore Chromium ore	kg kg	1.26E-01 1.76E-01	0	0	4.50E-02 6.54E-02	0	-6.83E-02 -9.66E-02	
	Const nviro.	Exhau		Manganese ore	kg kg	1.76E-01 1.13E-01	0	0	6.54E-02 7.48E-02	0	-9.66E-02 -1.62E-02	
	rce C		Material	Plumbous ore	kg kg	2.06E-02	0	0	0	0	-1.62E-02 -4.76E-03	
	Resource Consumption from the environment Exhaustible		Wateria	Tin ore	kg	0	0	0	0	0	0	
	Ϋ́ς Ψ			Zinc ore	kg	2.03E-01	0	0	0	0	-4.68E-02	
				Gold ore	kg	0	0	0	0	0	0	
				Silver ore	kg	0	0	0	0	0	0	
				Silica sand	kg	1.66E+00	0	0	1.49E-01	0	-5.71E-01	
				Rock salt	kg	9.24E+00	1.93E-03	0	2.71E+00	1.26E-02	-4.60E+00	
Inventory analyses				Limestone	kg	4.21E+00	0	0	3.19E+00	1.83E-01	-2.20E+00	
y ana				Natural soda ash	kg	1.58E-01	0	0	0.00E+00	0	-5.54E-02	
entor		Renev		Wood	kg	7.27E+00	0	0	7.88E+01	0	-3.44E+01	
Inve		resour	rces	Water	kg	1.23E+04	3.29E+03	3.24E-01	3.72E+04	1.50E+02	-4.89E+03	
				CO2	kg	1.72E+02	3.21E+01	1.30E+01	6.62E+02	1.87E+01	-1.12E+02	
				SOx NOx	kg ka	1.13E-01	2.28E-02 2.21E-02	7.26E-03 5.03E-02	3.95E-01 9.53E-01	1.01E-02 2.44E-02	-6.90E-02	
				N2O	kg kg	2.10E-01 1.51E-02	2.21E-02 2.96E-03	2.35E-02	9.53E-01 9.46E-02	2.44E-02 3.49E-05	-1.75E-01 -1.24E-02	
		to Atm	nosphere	CH4	kg	1.40E-03	6.96E-04	7.76E-08	7.10E-02	3.32E-05	-1.24E-02 -3.86E-04	
			·	CO	kg	2.43E-02	4.80E-03	1.09E-02	1.03E-01	5.21E-03	-1.55E-02	
		to Water system		NMVOC	kg	2.74E-03	1.36E-03	1.52E-07	1.39E-02	6.50E-05	-7.56E-04	
	de Dt			СхНу	kg	7.42E-03	4.95E-04	1.68E-03	2.76E-02	1.44E-04	-6.06E-03	
	schar			dust	kg	2.47E-02	9.86E-04	5.09E-03	6.79E-02	1.43E-03	-1.91E-02	
	ən/Dis			BOD	kg	-	-	-	-	-	-	
	nissic the e			COD	kg	-	-	-	-	-	-	
	En	to Wa	ter system		kg	-	-	-	-	-	-	
				P total	kg	-	-	-	-	-	-	
				SS Unspecified solid waste	kg	-	-	-	-	-	-	
				Unspecified solid waste Slag	kg kg	1.35E+00 6.05E+00	1.19E-02 0	0	2.34E+01 3.88E+00	1.54E+01 0	-1.47E+00	
		to Soil	l system	Sludge	кg kg	8.75E-01	0	0	2.34E+00	0	-3.71E+00 -1.28E+00	
			,	Low emission radioactive waste	kg	3.70E-04	1.82E-04	2.03E-08	1.86E-03	8.65E-06	-1.04E-04	
	mption			Energy resources (crude oil equivalent)	kg	5.61E+01	1.23E+01	4.08E+00	2.05E+02	7.21E-01	-3.49E+01	
ıt	esource Consu		austible ources	Mineral resources (Iron ore equivalent)	kg	2.45E+02	0	0	9.80E+01	0	-1.14E+02	
mer	by Res			Olehal ware '								
sses	tion		to	Global warming (CO2 equivalent)	kg	1.76E+02	3.30E+01	1.37E+01	6.88E+02	1.87E+01	-1.15E+02	
Impact assesment	Consumption	Atmo	to osphere	Acidification (SO2 equivalent)	kg	2.60E-01	3.83E-02	4.24E-02	1.06E+00	2.72E-02	-1.91E-01	
Ē	Emision Cor		Water /stem									
	by Em	>	o Soil /stem									

#### 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	arameters for LCA	)				
Product vendor	KONICAMINOLTA,	NC.				財品環境	
EcoLeaf registration no.	AD-19-1098				BRE 265 ARE 748 1 http://www.jem		
PCR name	EP and IJ printer (PCR-ID:AD-	04)	Product type		bizhu	b C4050i	
CA/LCIA in units o	1	Product weight[kg]	38.5	Package[kg]	5.2	Weight total[kg]	43.7

R

CA/LCIA in units o	1	Product weight[kg]	38.5

PCR name	EP and IJ prin	ter (PCR-ID:AD-04)	Product type	bizhub C4050i			
CA/LCIA in units o	1	Product weight[kg]	38.5	Package[kg]	5.2	Weight total[kg]	43.7
Product information (	per unit): parts etc. by I	material and by process/assembly	y method				
	Breakdown o	f primary materials		Math breakdown of pa	irts, which need to apply	y Processing / Assembly Ba	ase Units (Parts B,
Material name	Weight (kg)	Material name	Weight (kg)	Process name	Weight (kg)	Process name	Weight (kg)
Ordinary steel	1.84E+01	Rubber	1.13E-01	Press molding:lron	1.70E+01		
Stainless steel	7.93E-01	Semiconductor circuit board	1.18E+00	Press molding:Nonfe rrous metal	6.88E-01		
Aluminium	3.86E-01			Injection molding	1.54E+01		
Other metals	3.03E-01						
Glass	1.53E+00						
Thermoplastic res	in 1.62E+01						
Wood	2.70E+00						
Paper	2.14E+00						
Subtotal	4.24E+01	Subtotal	1.29E+00				
	Total		4.37E+01	Subtotal	3.31E+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.

	Classification	Energy	Energy	Material	Material				
ou	Classification								
onsumption	Distribution	Electricity	Furnace urban	Industrial	Groundwater				
Sun		(kWh)	gas (m <sup>3</sup> )	water(kg)	(kg)				
Col	Quantity	3.23E+01	9.75E-01	3.16E+02	5.12E+01				
0	Note								
~ 0	01 10 11	To Water							
ig B	Classification	system							
Emission/ Discharge	Distribution	Sewage(kg)							
is. m	Quantity	3.32E+02							
шО	Note	J.J2LT02							
	Note								
3. Dist	ribution stage information	on (per unit): mea	ans, distance, loa	ading ratio, cons	umptions and en	nissions/dischar	ges.		
	Manage of transmission					Diesel truck	Diesel truck	Diesel truck	Diesel truck
	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
						:20ton	:20ton	:20ton	:20ton
	Means of transportation Conditions	Freight by ship Load(kg•km)	Freight by ship Weight (kg)	Freight by ship Distance (km)	Loading				:20ton Loading
G						:20ton	:20ton	:20ton	:20ton
oution	Conditions	Load(kg•km)	Weight (kg)	Distance (km)	Loading Ratio(%w)	:20ton Load(kg•km)	:20ton Weight (kg)	:20ton Distance (km)	:20ton Loading Ratio(%w)
stribution	Conditions Quantity Note	Load(kg•km) 2.19E+05	Weight (kg) 4.37E+01	Distance (km) 5.00E+03	Loading Ratio(%w) 1.00E+02	:20ton Load(kg•km)	:20ton Weight (kg)	:20ton Distance (km)	:20ton Loading Ratio(%w)
Distribution	Conditions	Load(kg•km) 2.19E+05 Diesel truck	Weight (kg) 4.37E+01 Diesel truck	Distance (km) 5.00E+03 Diesel truck	Loading Ratio(%w) 1.00E+02 Diesel truck	:20ton Load(kg•km)	:20ton Weight (kg)	:20ton Distance (km)	:20ton Loading Ratio(%w)
Distribution	Conditions Quantity Note Means of transportation	Load(kg•km) 2.19E+05	Weight (kg) 4.37E+01	Distance (km) 5.00E+03	Loading Ratio(%w) 1.00E+02 Diesel truck :2ton	:20ton Load(kg•km)	:20ton Weight (kg)	:20ton Distance (km)	:20ton Loading Ratio(%w)
Distribution	Conditions Quantity Note	Load(kg•km) 2.19E+05 Diesel truck	Weight (kg) 4.37E+01 Diesel truck	Distance (km) 5.00E+03 Diesel truck	Loading Ratio(%w) 1.00E+02 Diesel truck :2ton Loading	:20ton Load(kg•km)	:20ton Weight (kg)	:20ton Distance (km)	:20ton Loading Ratio(%w)
Distribution	Conditions Quantity Note Means of transportation Conditions	Load(kg•km) 2.19E+05 Diesel truck :2ton Load(kg•km)	Weight (kg) 4.37E+01 Diesel truck :2ton Weight (kg)	Distance (km) 5.00E+03 Diesel truck :2ton Distance (km)	Loading Ratio(%w) 1.00E+02 Diesel truck :2ton Loading Ratio(%w)	:20ton Load(kg•km)	:20ton Weight (kg)	:20ton Distance (km)	:20ton Loading Ratio(%w)
Distribution	Conditions Quantity Note Means of transportation	Load(kg•km) 2.19E+05 Diesel truck :2ton	Weight (kg) 4.37E+01 Diesel truck :2ton	Distance (km) 5.00E+03 Diesel truck :2ton	Loading Ratio(%w) 1.00E+02 Diesel truck :2ton Loading	:20ton Load(kg•km)	:20ton Weight (kg)	:20ton Distance (km)	:20ton Loading Ratio(%w)

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

	oduct and accessories s Classification			•	<b>a</b>	•	<b>A</b>	<b>A</b>	<b>•</b> •
	Classification	Consumption	Consumption	Consumption Furnace urban	Consumption	Consumption	Consumption	Consumption	Consumption
Product	Distribution	Electricity (kWh)	Gasoline as fuel(kg)	gas (m <sup>3</sup> )	Industrial water(kg)	Groundwater (kg)	Ordinary steel (kg)	Stainless steel (kg)	Aluminium (kg
ē.	Quantity	4.94E+02	3.67E-01	1.99E+01	2.40E+02	2.28E+03	1.22E+01	2.83E-01	1.03E+00
	Note								
	Classification	Consumption	Consumption	Consumption	Processing	Processing	Processing	Processing	
Product	Distribution	Thermoplastic resin(kg)	Paper(kg)	Rubber (kg)	Press:Iron(kg)	Press: Nonferrous(kg)	Injection molding(kg)	Blow molding (kg)	
-	Quantity	8.40E+01	3.34E+01	5.69E-01	1.16E+01	1.22E+00	1.77E+01	5.88E+01	
	Note								
	Classification	Assembly	To Water system						
Product	Distribution	Parts assembly (kg)	Sewage(kg)						
	Quantity	5.88E+01	1.98E+03						
	Note								
	Classification	Distribution							
Product	Distribution	Diesel truck: 10ton (kg•km)							
ā	Quantity	1.95E+04							
	Note	1.332+04							
2 Die	sposition/Recycle inform	nation on consum	ables and renia	coment narts					
- 01.	Classification	Consumption	Consumption	Treatment	Treatment	Treatment	Treatment	Treatment	Treatment
		Consumption	Consumption	meatment	meatment	Treatment	meatment	Treatment	Industrial
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)	waste destruction by fire(kg)
0	Quantity	3.19E+00	7.46E-02	4.99E+00	4.12E-01	0.00E+00	1.81E+01	1.64E+01	2.28E-01
	Note								
	Classification	Treatment	Treatment	Treatment	Deduction	Deduction	Deduction	Deduction	Deduction
Consumables	Distribution	Industrial waste inning(kg)	Waste destruction by fire(kg)	Waste inning(kg)	lron(kg)	Aluminum(kg)	Copper(kg)	Plastics(kg)	Paper(kg)
õ	Quantity	1.83E-01	5.25E+01	1.19E+01	-4.99E+00	-4.12E-01	0.00E+00	-1.81E+01	-1.64E+01
	Note								
	Classification	Distribution	Distribution						
Consumables	Distribution	Diesel truck: 10ton (kg•km)	Diesel truck: 4ton (kg•km)						
Suo									
0	Quantity	5.15E+03	6.23E+03						
	Note	5.15E+03	6.23E+03						
	Note position/Recycle stage in	5.15E+03	6.23E+03	method and sce					
Disp	Note	5.15E+03 formation (per p Consumption	6.23E+03	method and sce Treatment	Treatment	Treatment	Treatment	Treatment	Treatment
Disp	Note Dosition/Recycle stage in Classification	5.15E+03 formation (per p Consumption Electricity	6.23E+03 roduct): process Consumption	Treatment Recycle: to	Treatment Recycle: to	Recycle: to	Recycle: to	Recycle: to	Recycle: to
Disp	Note Dosition/Recycle stage in Classification Distribution	5.15E+03 nformation (per p Consumption Electricity (kWh)	6.23E+03 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)
Disp	Note position/Recycle stage in Classification Distribution Quantity	5.15E+03 formation (per p Consumption Electricity	6.23E+03 roduct): process Consumption	Treatment Recycle: to	Treatment Recycle: to	Recycle: to	Recycle: to	Recycle: to	Recycle: to
	Note position/Recycle stage in Classification Distribution Quantity Note	5.15E+03 formation (per p Consumption Electricity (kWh) 1.31E+00	6.23E+03 roduct): process Consumption Kerosene(kg) 3.07E-02	Treatment Recycle: to iron(kg) 7.82E+00	Treatment Recycle: to Aluminum(kg) 1.54E-01	Recycle: to copper(kg) 2.81E-01	Recycle: to Glass(kg) 6.13E-01	Recycle: to plastics(kg) 6.42E+00	Recycle: to Paper(kg) 2.10E+00
Consumables	Note position/Recycle stage in Classification Distribution Quantity	5.15E+03 nformation (per p Consumption Electricity (kWh)	6.23E+03 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)
Consumables	Note position/Recycle stage in Classification Distribution Quantity Note	5.15E+03 formation (per p Consumption Electricity (kWh) 1.31E+00	6.23E+03 roduct): process Consumption Kerosene(kg) 3.07E-02	Treatment Recycle: to iron(kg) 7.82E+00 Treatment Incineration to landfill (as ash)(kg)	Treatment Recycle: to Aluminum(kg) 1.54E-01	Recycle: to copper(kg) 2.81E-01 Deduction Iron(kg)	Recycle: to Glass(kg) 6.13E-01 Deduction Aluminium (kg)	Recycle: to plastics(kg) 6.42E+00	Recycle: to Paper(kg) 2.10E+00
Disp	Note position/Recycle stage in Classification Distribution Quantity Note Classification	5.15E+03 formation (per p Consumption Electricity (kWh) 1.31E+00 Treatment Incineration: Industrial	6.23E+03 roduct): process Consumption Kerosene(kg) 3.07E-02 Treatment Landfill: Industrial	Treatment Recycle: to iron(kg) 7.82E+00 Treatment Incineration to landfill (as	Treatment Recycle: to Aluminum(kg) 1.54E-01 Treatment Landfill: General	Recycle: to copper(kg) 2.81E-01 Deduction	Recycle: to Glass(kg) 6.13E-01 Deduction Aluminium	Recycle: to plastics(kg) 6.42E+00 Deduction	Recycle: to Paper(kg) 2.10E+00 Deduction
Consumables	Note classification Distribution Quantity Note Classification Distribution	5.15E+03 formation (per p Consumption Electricity (kWh) 1.31E+00 Treatment Incineration: Industrial waste(kg)	6.23E+03 roduct): process Consumption Kerosene(kg) 3.07E-02 Treatment Landfill: Industrial waste(kg)	Treatment Recycle: to iron(kg) 7.82E+00 Treatment Incineration to landfill (as ash)(kg)	Treatment Recycle: to Aluminum(kg) 1.54E-01 Treatment Landfill: General waste(kg)	Recycle: to copper(kg) 2.81E-01 Deduction Iron(kg)	Recycle: to Glass(kg) 6.13E-01 Deduction Aluminium (kg)	Recycle: to plastics(kg) 6.42E+00 Deduction copper(kg)	Recycle: to Paper(kg) 2.10E+00 Deduction Glass(kg)
Consumables	Note oosition/Recycle stage in Classification Distribution Quantity Note Classification Distribution Quantity Quantity	5.15E+03 formation (per p Consumption Electricity (kWh) 1.31E+00 Treatment Industrial waste(kg) 3.33E-01	6.23E+03 roduct): process Consumption Kerosene(kg) 3.07E-02 Treatment Landfill: Industrial waste(kg) 1.09E-01	Treatment Recycle: to iron(kg) 7.82E+00 Treatment Incineration to landfill (as ash)(kg) 1.27E+01	Treatment Recycle: to Aluminum(kg) 1.54E-01 Treatment Landfill: General waste(kg) 1.34E+01	Recycle: to copper(kg) 2.81E-01 Deduction Iron(kg)	Recycle: to Glass(kg) 6.13E-01 Deduction Aluminium (kg)	Recycle: to plastics(kg) 6.42E+00 Deduction copper(kg)	Recycle: to Paper(kg) 2.10E+00 Deduction Glass(kg)
Consumables Consumables	Note Distribution Classification Distribution Quantity Note Classification Distribution Quantity Note Note	5.15E+03 formation (per p Consumption Electricity (kWh) 1.31E+00 Treatment Incineration: Industrial waste(kg)	6.23E+03 roduct): process Consumption Kerosene(kg) 3.07E-02 Treatment Landfill: Industrial waste(kg)	Treatment Recycle: to iron(kg) 7.82E+00 Treatment Incineration to landfill (as ash)(kg) 1.27E+01 Distribution Diesel truck: 10ton	Treatment Recycle: to Aluminum(kg) 1.54E-01 Treatment Landfill: General waste(kg) 1.34E+01 Distribution Diesel truck: 4ton	Recycle: to copper(kg) 2.81E-01 Deduction Iron(kg)	Recycle: to Glass(kg) 6.13E-01 Deduction Aluminium (kg)	Recycle: to plastics(kg) 6.42E+00 Deduction copper(kg)	Recycle: to Paper(kg) 2.10E+00 Deduction Glass(kg)
Consumables	Note Dosition/Recycle stage in Classification Distribution Quantity Note Classification Distribution Quantity Note Classification	5.15E+03 formation (per p Consumption Electricity (kWh) 1.31E+00 Treatment Incineration: Industrial waste(kg) 3.33E-01 Deduction	6.23E+03 roduct): process Consumption Kerosene(kg) 3.07E-02 Treatment Landfill: Industrial waste(kg) 1.09E-01 Deduction	Treatment Recycle: to iron(kg) 7.82E+00 Treatment Incineration to landfill (as ash)(kg) 1.27E+01 Distribution Diesel truck:	Treatment Recycle: to Aluminum(kg) 1.54E-01 Treatment Landfill: General waste(kg) 1.34E+01 Distribution Diesel truck:	Recycle: to copper(kg) 2.81E-01 Deduction Iron(kg)	Recycle: to Glass(kg) 6.13E-01 Deduction Aluminium (kg)	Recycle: to plastics(kg) 6.42E+00 Deduction copper(kg)	Recycle: to Paper(kg) 2.10E+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".