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温室气体核查声明书

授予

立邦涂料（湖北）有限公司

核查地址：中国湖北省咸宁市国家高新技术产业开发区

组织边界：立邦涂料（湖北）有限公司拥有运营控制的活动和设施

报告边界：立邦涂料（湖北）有限公司涂料、干粉砂浆和胶粘剂的制造过程和
相关管理活动过程中产生的直接温室气体排放及其重要的间接温室气体排放

限制性叙述：排除其他非重要间接温室气体排放

保证等级：合理保证等级

必维认证（北京）有限公司

证明上述单位依据下列国际标准执行组织温室气体盘查工作，查证数据为合理测
量和计算，其它详细声明如附件所述。

ISO 14064-1:2018

经核查 2021 年 1 月 1 日到 2021 年 12 月 31 日期间：

类别 1：直接温室气体排放：450.67 吨二氧化碳当量

类别 2：能源间接温室气体排放（基于位置）：4,553.64 吨二氧化碳当量

类别 2：能源间接温室气体排放（基于市场）：4,529.49 吨二氧化碳当量

类别 3：运输的间接温室气体排放：27,297.10 吨二氧化碳当量

类别 4：组织使用产品的间接温室气体排放：307,441.81 吨二氧化碳当量

类别 5：与使用组织产品有关的间接温室气体排放：11,470.15 吨二氧化碳当量

类别 6：其它来源的间接温室气体排放：非重要间接排放，未量化

经量化的总排放量（基于位置）：351,213.37 吨二氧化碳当量

经量化的总排放量（基于市场）：351,189.22 吨二氧化碳当量

签发日期：2024 年 01 月 03 日

声明书编号：EMI19375137-001

版本号：NO.1

必维认证（北京）有限公司授权代表

认证机构地址：中国北京市东城区东长安街 1 号东方广场西一办公楼 9 层 902 室，邮编：100738

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温室气体核查声明书（附页）

立邦涂料（湖北）有限公司对其的报告边界范围内的温室气体排放进行第三方核查。查证的关键信息如下：

GHG 清单类别	GHG 排放源	温室气体	排放因子		数据来源	
			数值	单位		
直接温室气体排放	天然气	CO ₂	2.18E+00	kgCO ₂ /m ³	《2006 IPCC 国家温室气体清单指南》 《工业其他行业企业温室气体排放核算方法与报告指南（试行）》	
		CH ₄	3.89E-05	kgCH ₄ /m ³		
		N ₂ O	3.89E-06	kgN ₂ O/m ³		
	非道路柴油	CO ₂	2.64E+00	kgCO ₂ /L		
		CH ₄	1.48E-04	kgCH ₄ /L		
		N ₂ O	1.02E-03	kgN ₂ O/L		
	汽油	CO ₂	2.32E+00	kgCO ₂ /L		
		CH ₄	1.27E-04	kgCH ₄ /L		
		N ₂ O	1.91E-04	kgN ₂ O/L		
	制冷剂	R134a	1.30E+03	kgCO ₂ e/kg		IPCC AR5
CO ₂ 灭火器	CO ₂	1.00E+00	kgCO ₂ /kg	《2006 IPCC 国家温室气体清单指南》		
能源间接温室气体排放	外购电力（华中电网）	CO ₂	5.26E-01	kgCO ₂ e/kWh	《2011 年和 2012 年中国区域电网平均二氧化碳排放因子》	
	外购热力	CO ₂	1.10E+02	kgCO ₂ /GJ	《工业其他行业企业温室气体排放核算方法与报告指南（试行）》	
运输的间接温室气体排放	飞机	CO ₂	1.64E+00	kgCO ₂ e/USD	GHG Quantis	
	飞机（小于 3700km）	CO ₂	8.12E-02	kgCO ₂ e/km	UK Government GHG Conversion Factors for Company Reporting 2022	
	飞机（大于 3700km）	CO ₂	1.02E-01	kgCO ₂ e/km		
	火车	CO ₂	4.46E-03	kgCO ₂ e/km		GHG Quantis
		CO ₂	7.76E-01	kgCO ₂ e/USD		
	出租车	CO ₂	4.10E-02	kgCO ₂ e/km	中国分省道路交通二氧化碳排放因子	
		CO ₂	7.76E-01	kgCO ₂ e/USD		
	大巴	CO ₂	1.11E+00	kgCO ₂ e/USD	GHG Quantis	
		轮船	CO ₂	7.76E-01		kgCO ₂ e/USD
	自驾	CO ₂	3.17E+00	kgCO ₂ e/kg	2006 IPCC 国家温室气体清单指南	
	公路（货车，8-12 吨）	CO ₂	1.62E-01	kgCO ₂ e/(T·km)	GB/T 51366-2019 建筑碳排放计算标准	
		公路（货车，16-20 吨）	CO ₂	1.29E-01		kgCO ₂ e/(T·km)
			公路（货车，20 吨以上）	CO ₂		7.80E-02
		公路（其它）	CO ₂	1.49E-01		kgCO ₂ e/(T·km)
		水运	CO ₂	1.50E-02		kgCO ₂ e/(T·km)
铁路	CO ₂	1.00E-02	kgCO ₂ e/(T·km)			
组织使用产品的间接温室气体排放	电力上游	CO ₂	1.77E-02	kgCO ₂ e/kWh	UK Government GHG Conversion Factors for Company Reporting 2022	
	蒸汽/热力上游	CO ₂	8.99E-03	kgCO ₂ e/kWh		
	天然气上游	CO ₂	3.43E-01	kgCO ₂ e/m ³		
	柴油上游	CO ₂	6.10E-01	kgCO ₂ e/L		
	汽油上游	CO ₂	6.13E-01	kgCO ₂ e/L		
	纸制品 焚烧	CO ₂	2.13E+01	kgCO ₂ e/t		

认证机构地址：中国北京市东城区东长安街 1 号东方广场西一办公楼 9 层 902 室，邮编：100738

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GHG 清单类别	GHG 排放源		温室气体	排放因子		数据来源
				数值	单位	
	金属制品	填埋	CO ₂	1.04E+03	kgCO ₂ e/t	《2006 IPCC 国家温室气体清单指南》 Ecoinvent 3.9.1
		焚烧	CO ₂	2.13E+01	kgCO ₂ e/t	
		填埋	CO ₂	8.88E+00	kgCO ₂ e/t	
	木制品	焚烧	CO ₂	2.13E+01	kgCO ₂ e/t	
		填埋	CO ₂	8.28E+02	kgCO ₂ e/t	
	塑料制品	焚烧	CO ₂	2.13E+01	kgCO ₂ e/t	
		填埋	CO ₂	8.88E+00	kgCO ₂ e/t	
	污泥	焚烧	CO ₂	9.85E-01	kgCO ₂ e/t	
		填埋	CO ₂	1.76E+01	kgCO ₂ e/t	
	玻璃制品	焚烧	CO ₂	2.13E+01	kgCO ₂ e/t	
		填埋	CO ₂	8.88E+00	kgCO ₂ e/t	
	一般生活垃圾	焚烧	CO ₂	2.13E+01	kgCO ₂ e/t	
		填埋	CO ₂	4.46E+02	kgCO ₂ e/t	
	电池		CO ₂	8.88E+00	kgCO ₂ e/t	
	建筑垃圾		CO ₂	2.13E+01	kgCO ₂ e/t	
危废		CO ₂	2.13E+01	kgCO ₂ e/t		
水处理	生活污水	CH ₄	7.77E-02	kgCH ₄ /t		
	工业废水	CH ₄	2.25E-01	kgCH ₄ /t		
与使用组织产品有关的间接温室气体排放	惰性废弃物处理, 卫生填埋		CO ₂	1.19E-02	tCO ₂ e/t	
	废旧乳胶漆处理, 卫生填埋		CO ₂	4.97E-02	tCO ₂ e/t	
	废涂料处理, 焚烧		CO ₂	1.19E-02	tCO ₂ e/t	

上述经查证均适宜, 但排除由于经济和技术特点难以核查的排放源。

核查组长: 胡佳乐

核查日期: 2023 年 10 月 18 日



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Greenhouse Gases Verification Statement

is awarded to

NIPPON PAINT (HUBEI) CO., LTD.

Verified address: National High-tech Industrial Development Zone, Xianning, Hubei Province, P.R. China

Organizational boundaries: Activities and facilities of Nippon Paint (Hubei) Co., Ltd. under operational control

Reporting boundaries: Direct GHG emissions generated in manufacturing of Direct GHG emissions generated in manufacturing of coatings, dry mixed mortar and adhesives by Nippon Paint (Hubei) Co., Ltd. related management activities within the organizational boundaries, as well as significant indirect greenhouse gases emissions

Limitations and exclusions: Exclude other non-significant indirect GHG emissions

Level of assurance: Reasonable

Bureau Veritas Certification (Beijing) Co., Ltd.

certifies that the organization has conducted Greenhouse Gas inventory in accordance with the requirements of the standard detailed below, and verification data are reasonable measurement and calculation. Other details are described in the appendix.

ISO 14064-1:2018

Verified from 01/01/2021 to 31/12/2021:

Category 1: Direct GHG emissions: 450.67 tonnes of CO₂e

Category 2: Indirect GHG emissions from imported energy (Location- based): 4,553.64 tonnes of CO₂e

Category 2: Indirect GHG emissions from imported energy (Market-based): 4,529.49 tonnes of CO₂e

Category 3: Indirect GHG emissions from transportation: 27,297.10 tonnes of CO₂e

Category 4: Indirect GHG emissions from products used by organization: 307,441.81 tonnes of CO₂e

Category 5: Indirect GHG emissions associated with the use of products from the organization: 11,470.15 tonnes of CO₂e

Category 6: Indirect GHG emissions from other sources: Non-significant indirect GHG emissions, Unquantified

Total GHG emissions (Location- based): 351,213.37 tonnes of CO₂e

Total GHG emissions (Market-based): 351,189.22 tonnes of CO₂e

Issue date: 03/01/2024

Statement No.: EMI19375137-001

Version No.: 1

Signed on behalf of BVC (Beijing) Co., Ltd.

Certification body address: Room 02, 9 / F, West Office Building 1, Oriental Economic and Trade City, Oriental Plaza, No.1 East Chang'an Street, Dongcheng District, Beijing, China. 100738

Further clarifications regarding the verification scope of this statement may be obtained by consulting the organization.

To check this statement validity please call: +86 021-23190306



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Greenhouse Gases Verification Statement (Appendix)

Nippon Paint (Hubei) Co., Ltd. to conduct a third-party verification on the GHG emissions within its reporting boundary. Key information is listed below.

GHG Inventory categories	GHG Source	GHG	Factor		Reference	
			Quantity	Unit		
Direct GHG emissions	Natural gas	CO ₂	2.18E+00	kgCO ₂ /m ³	2006 IPCC Guidelines for National Greenhouse Gas Inventory	
		CH ₄	3.89E-05	kgCH ₄ /m ³		
		N ₂ O	3.89E-06	kgN ₂ O/m ³		
	Off-road diesel (Chinese mainland)	CO ₂	2.64E+00	kgCO ₂ /L		Accounting Methods and Reporting Guidelines for Greenhouse Gas Emissions of Enterprises in Other Industrial Industries (Trial)
		CH ₄	1.48E-04	kgCH ₄ /L		
		N ₂ O	1.02E-03	kgN ₂ O/L		
	Gasoline	CO ₂	2.32E+00	kgCO ₂ /L	IPCC AR5	
		CH ₄	1.27E-04	kgCH ₄ /L		
	Refrigerants	R134a	1.30E+03	kgCO ₂ /kg	2006 IPCC Guidelines for National Greenhouse Gas Inventory	
	CO ₂ fire extinguisher	CO ₂	1.00E+00	kgCO ₂ /kg	The average carbon dioxide emission factors of China's regional power grid in 2011 and 2012	
Indirect GHG emissions from imported energy	Electricity (Central China power grid)	CO ₂	5.26E-01	kgCO ₂ e/kWh	Accounting Methods and Reporting Guidelines for Greenhouse Gas Emissions of Enterprises in Other Industrial Industries (Trial)	
	Heat & steam	CO ₂	1.10E+02	kgCO ₂ /GJ		
Indirect GHG emissions from transportation	Flights	CO ₂	1.64E+00	kgCO ₂ e/USD	GHG Quantis	
	Flights (<3700km)	CO ₂	8.12E-02	kgCO ₂ e/km	UK Government GHG Conversion Factors for Company Reporting 2022	
	Flights (>3700km)	CO ₂	1.02E-01	kgCO ₂ e/km		
	Rail	CO ₂	4.46E-03	kgCO ₂ e/km		GHG Quantis
		CO ₂	7.76E-01	kgCO ₂ e/USD		
	Taxis	CO ₂	4.10E-02	kgCO ₂ e/km	Carbon dioxide emission factors for road traffic in different provinces of China	
		CO ₂	7.76E-01	kgCO ₂ e/USD		
	Bus	CO ₂	1.11E+00	kgCO ₂ e/USD	GHG Quantis	
	Ferry	CO ₂	7.76E-01	kgCO ₂ e/USD		
	Car	CO ₂	3.17E+00	kgCO ₂ e/kg	2006 IPCC Guidelines for National Greenhouse Gas Inventory	
	Road freight (8-12t)	CO ₂	1.62E-01	kgCO ₂ e/(T • km)	GB/T 51366-2019 Building Carbon Emission Calculation Standard	
	Road freight (16-20t)	CO ₂	1.29E-01	kgCO ₂ e/(T • km)		
Road freight (>20t)	CO ₂	7.80E-02	kgCO ₂ e/(T • km)			

Certification body address: Room 02, 9 / F, West Office Building 1, Oriental Economic and Trade City, Oriental Plaza, No.1 East Chang'an Street, Dongcheng District, Beijing, China. 100738

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GHG Inventory categories	GHG Source	GHG	Factor		Reference	
			Quantity	Unit		
	Road freight (other)	CO ₂	1.49E-01	kgCO ₂ e/(T • km)		
	Cargo ship	CO ₂	1.50E-02	kgCO ₂ e/(T • km)		
	Rail	CO ₂	1.00E-02	kgCO ₂ e/(T • km)		
Indirect GHG emissions from products used by organization	WTT-Electricity	CO ₂	1.77E-02	kgCO ₂ e/kWh	UK Government GHG Conversion Factors for Company Reporting 2022	
	WTT-Heat and steam	CO ₂	8.99E-03	kgCO ₂ e/kWh		
	WTT-Natural gas	CO ₂	3.43E-01	kgCO ₂ e/m ³		
	WTT-Diesel	CO ₂	6.10E-01	kgCO ₂ e/L		
	WTT- Gasoline	CO ₂	6.13E-01	kgCO ₂ e/L		
	Paper	Combustion	CO ₂	2.13E+01		kgCO ₂ e/kg
		Landfill	CO ₂	1.04E+03		kgCO ₂ e/t
	Metal	Combustion	CO ₂	2.13E+01		kgCO ₂ e/t
		Landfill	CO ₂	8.88E+00		kgCO ₂ e/t
	Woodwork	Combustion	CO ₂	2.13E+01		kgCO ₂ e/t
		Landfill	CO ₂	8.28E+02		kgCO ₂ e/t
	Plastic	Combustion	CO ₂	2.13E+01		kgCO ₂ e/t
		Landfill	CO ₂	8.88E+00		kgCO ₂ e/t
	Sludge	Combustion	CO ₂	9.85E-01		kgCO ₂ e/t
		Landfill	CO ₂	1.76E+01		kgCO ₂ e/t
	Glass	Combustion	CO ₂	2.13E+01		kgCO ₂ e/t
		Landfill	CO ₂	8.88E+00		kgCO ₂ e/t
	Domestic garbage	Combustion	CO ₂	2.13E+01		kgCO ₂ e/t
		Landfill	CO ₂	4.46E+02		kgCO ₂ e/t
		Battery	CO ₂	8.88E+00		kgCO ₂ e/t
	Construction	CO ₂	2.13E+01	kgCO ₂ e/t		
	Hazardous waste	CO ₂	2.13E+01	kgCO ₂ e/t		
Water treatment	Life	CH ₄	7.77E-02	kgCH ₄ /t	2006 IPCC Guidelines for National Greenhouse Gas Inventory	
	Industrial	CH ₄	2.25E-01	kgCH ₄ /t		
Indirect GHG emissions associated with the use of products from the organization	Inert waste treatment, sanitary landfill	CO ₂	1.19E-02	tCO ₂ e/t	Ecoinvent 3.9.1	
	Waste latex paint treatment, sanitary landfill	CO ₂	4.97E-02	tCO ₂ e/t		
	Waste paint treatment, combustion	CO ₂	1.19E-02	tCO ₂ e/t		

Above have been verified to be appropriate, except GHG emission sources that are not economically or technically feasible to verify.

Lead verifier: Carbon HU

Verification date: 18/10/2023

Certification body address: Room 02, 9 / F, West Office Building 1, Oriental Economic and Trade City, Oriental Plaza, No.1 East Chang'an Street, Dongcheng District, Beijing, China. 100738

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