

# Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in year 2022 of

## NAN PAO RESINS CHEMICAL CO. LTD.

No. 519, Zhongshan Rd., Xigang Dist.,  
Tainan City 723, Taiwan

has been verified in accordance with ISO 14064-3:2006 as  
meeting the requirements of

## ISO 14064-1:2018

Direct emissions

**5,552.8036** tonnes of CO<sub>2</sub>e

Indirect emissions

**109,662.0373** tonnes of CO<sub>2</sub>e

Direct emissions and indirect emissions

**115,214.841** tonnes of CO<sub>2</sub>e

Authorized by



Stephen Pao

Knowledge Deputy General Manager

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Version 1

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# Statement TW23/00593GG, continued

The emission of each category is described as below:

Unit: tonnes of CO<sub>2</sub>e

Reporting Boundaries		GHG Emissions
Inventory categories	Description	
Direct emissions	This direct GHG emissions are the sum of owned or controlled by the organization within the organization.	5,552.8036
Indirect emissions	Imported energy	9,312.8035
	Transportation	1,055.4063
	Products used by an organization	99,293.8275
	Associated with the use of products from the organization	--
	Other sources	--
Direct emissions and indirect emissions		115,214.841



SGS has been contracted by NAN PAO RESINS CHEMICAL CO. LTD. (hereinafter referred to as "NAN PAO RESINS"), No. 519, Zhongshan Rd., Xigang Dist., Tainan City 723, Taiwan for the verification of direct and indirect Greenhouse Gas emissions in accordance with

## ISO 14064-3:2006

as provided by NAN PAO RESINS CHEMICAL CO. LTD. (hereinafter referred to as "NAN PAO RESINS"), No. 519, Zhongshan Rd., Xigang Dist., Tainan City 723, Taiwan, in the GHG Assertion in the form of GHG report covering GHG emissions of the period 01 January 2022 to 31 December 2022.

## Roles and responsibilities

The management of NAN PAO RESINS is responsible for the organization's GHG information system, the development and maintenance of records and reporting procedures in accordance with that system, including the calculation and determination of GHG emissions information and the reported GHG emissions.

It is SGS's responsibility to express an independent GHG verification opinion on the GHG emissions as provided in the GHG Assertion for the period 01 January 2022 to 31 December 2022.

SGS conducted a third-party verification of the provided GHG assertion against the principles of ISO 14064-1:2018, ISO 14064-3:2006 in the period 03 October 2023 to 01 November 2023. The verification was based on the verification scope, objectives and criteria as agreed between NAN PAO RESINS and SGS on 24 March 2023.

## Level of Assurance

The level of assurance for category 1 and category 2 agreed is that of reasonable assurance. Category 3 till category 6 agreed is that of limited assurance.

## Scope

NAN PAO RESINS has commissioned an independent verification by SGS Taiwan of reported GHG emissions of NAN PAO RESINS arising from Manufacturing of adhesives for shoe materials, industrial adhesives, liquid coatings, powder coatings and carbon fiber materials activities, to establish conformance with ISO 14064:2018 principles within the scope of the verification as outlined below.



## Statement TW23/00593GG, continued

This engagement covers verification of emission from anthropogenic sources of greenhouse gases included within the organization's boundary and is based on ISO 14064-3:2006.

- Title or description activities: GHG verification for NAN PAO RESINS in year 2022
- Location/boundary of the activities:
  - No. 10, Ln. 99, Nanhai St., Nanhai Vil., Xigang Dist., Tainan City 723, Taiwan
  - No. 521, Zhongshan Rd., Xigang Dist., Tainan City 723, Taiwan
  - No. 508, 510, Zhongshan Rd., Xigang Dist., Tainan City 723, Taiwan
  - No. 506, Zhongshan Rd., Xigang Dist., Tainan City 723, Taiwan
  - No. 48, Sec. 1, Zhongshan Rd., Guiren Dist., Tainan City 711, Taiwan
- Physical infrastructure, activities, technologies and processes of the organization: Manufacturing of adhesives for shoe materials, industrial adhesives, liquid coatings, powder coatings and carbon fiber materials
- GHG sources, sinks and/or reservoirs included: Sources as presented in the inventory spreadsheet provided by NAN PAO RESINS
- Types of GHGs included: CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub>, NF<sub>3</sub>
- The IPCC 2021 AR6 GWP values are applied in this inventory.
- Emission factor:
  - Direct emissions: Greenhouse Gas Emission Factor Table (6.0.4), EPA.
  - Indirect emissions:
    - Electricity emission factor is 0.495 kgCO<sub>2</sub>e/kwh (Announced by Bureau of Energy, Ministry of Economic Affairs in 2023).
    - The secondary database has Carbon Footprint Information Platform, SimaPro 9.5.0.0 EF DB 2.0 / Ecoinvent v3
- Directed actions: NA
- GHG information for the following period was verified: 01 January 2022 to 31 December 2022
- The version of inventory sheet: 112/11/01, v.3
- The version of GHG assertion: 2023/11, v.3
- Intended user of the verification statement: Private

### Objective

The purposes of this verification exercise are, by review of objective evidence, to independently review:

- Whether the GHG emissions are as declared by the organization's GHG assertion
- The data reported are accurate, complete, consistent, transparent and free of material error or omission.



## Criteria

Criteria against which the verification assessment is undertaken are the principles of ISO 14064-1:2018

## Materiality

The materiality required of the verification was considered by SGS to 5%, based on the needs of the intended user of the GHG Assertion.

## Conclusion

NAN PAO RESINS provided the GHG assertion based on the requirements of ISO 14064-1: 2018. The GHG information for the period 01 January 2022 to 31 December 2022 disclosing emissions of 115,214.841 metric tonnes of CO<sub>2</sub> equivalent and 0.0000 metric tonnes of direct CO<sub>2</sub> emissions from the combustion of biomass are verified by SGS to a reasonable level of assurance, consistent with the agreed verification scope, objectives and criteria.

The emission of each category is described as below:

Unit: tonnes of CO<sub>2</sub>e

Reporting Boundaries			GHG Emissions
Inventory categories		Description	
Direct emissions		This direct GHG emissions are the sum of owned or controlled by the organization within the organization.	5,552.8036
Indirect emissions	Imported energy	Imported electricity.	9,312.8035
	Transportation	1. Emissions from raw material and cargo transportation: (1) Direct materials account for 60% of the purchase amount. (2) Packaging materials items whose purchase amount accounts for more than 65%. (3) Wooden pallets (commonly purchased specifications 100*120 (122) and 114*114) 2. Emissions from employee commuting.	1,055.4063
	Products used by an organization	1. Emissions from raw material and cargo transportation: (1) Direct materials account for 60% of the purchase amount. (2) Packaging materials	99,293.8275



## Statement TW23/00593GG, continued

		<p>items whose purchase amount accounts for more than 65%.</p> <p>(3) Wooden pallets (commonly purchased specifications 100*120 (122) and 114*114)</p> <p>2. Emissions from upstream of energy and fuel, including Electricity/diesel/natural gas/gasoline</p> <p>3. Emissions from waste transportation and disposal.</p>	
	Associated with the use of products from the organization	N/A	--
	Other sources	N/A	--
Direct emissions and indirect emissions			115,214.841

SGS's approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions information and the controls in place to mitigate these. Our examination includes assessment, on a test basis, of evidence relevant to the amounts and disclosures in relation to the organization's reported GHG emissions.

We planned and performed our work to obtain the information, explanations, and evidence that we considered necessary to provide a reasonable level of assurance that the GHG emissions of category 1 and category 2, and limited level of assurance of category 3 till category 6 for the period 01 January 2022 to 31 December 2022 are fairly stated.

We conducted our verification with regard to the GHG assertion of NAN PAO RESINS which included assessment of GHG information system, monitoring and reporting plan/protocol. This assessment included the collection of evidence supporting the reported data, and checking whether the provisions of the protocol reference, were consistently and appropriately applied.

In SGS's opinion the presented GHG assertion

- is materially correct and is a fair representation of the GHG data and information, and
- is prepared in accordance with ISO14064-1:2018 on GHG quantification, monitoring and reporting.



## Statement TW23/00593GG, continued

### Confidentiality

The reports and attachments may contain relevantly confidential information of the clients. In addition to being submitted as governmental application or certification documents, the reports and attachments are not allowed to be edited, duplicated, or published without the clients' agreement in written form.

### Avoidance of Conflict of Interest

The reports and attachments are completely complied with the standards and procedures that related authorities established. The reports and attachments of auditing process are conducted with fairness and honesty. If not, the auditing institution not only has to bear the relevant compensation duties, but also to receive legal charge and punishment.

This statement shall be interpreted with the GHG assertion of NAN PAO RESINS as a whole.

### Verifier Group

Above statements coincide with auditing process with fairness and impartiality and aim at the emission of year 2022 of clients.

Lead Verifier:

Jenny Wang

Verifier:

Victor Tseng

Kai ping Teh

Ocean Wei

Kyle Tang

Note: This Statement is issued, on behalf of Client, by SGS Taiwan Ltd. ("SGS") under its General Conditions for Greenhouse Gas Verification Services available at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). The findings recorded hereon are based upon an audit performed by SGS. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted at NAN PAO RESINS CHEMICAL CO. LTD., No. 519, Zhongshan Rd., Xigang Dist., Tainan City 723, Taiwan. This Statement does not relieve Client from compliance with any bylaws, federal, national or regional acts and regulations or with any guidelines issued pursuant to such regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its Client.