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温室气体核查意见书

授予

海南文昌福耀硅砂有限公司

必维认证（北京）有限公司（以下简称“必维”）受海南文昌福耀硅砂有限公司的委托，对海南文昌福耀硅砂有限公司报告的温室气体排放量进行独立的第三方核查，本核查意见适用于下文所述工作范围内的相关信息。

核查边界：

- 核查场所名称：海南文昌福耀硅砂有限公司
- 核查地址：中国海南省文昌市龙楼镇全美村
- 温室气体报告期限：2024年01月01日 - 2024年12月31日

组织边界：海南文昌福耀硅砂有限公司实施运营控制的活动和设施

报告边界：海南文昌福耀硅砂有限公司组织边界内，原砂开采，石英砂、铸造砂和3D打印砂生产和相关管理活动过程中产生的温室气体排放及其重要的间接温室气体排放

经核查的排放量：

- 类别1：直接温室气体排放：4924.58 tCO₂e
 - 类别2：输入能源的间接温室气体排放：6644.35 tCO₂e
 - 类别3：运输的间接温室气体排放：7923.92 tCO₂e
 - 类别4：组织使用产品的间接温室气体排放：8398.72 tCO₂e
 - 类别5：与使用组织产品有关的间接温室气体排放：非重要间接排放，未量化
 - 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：27891.57 tCO₂e

限制性叙述：排除其他非重要间接温室气体排放

温室气体核查依据：

- ISO 14064-1:2018 温室气体 - 第1部分：组织层面温室气体排放和移除的量化和报告的要求及指南
- ISO 14064-3:2019 温室气体 - 第3部分：温室气体声明核查和审定规范及指南

保证等级：

- 合理保证

核查方法：

- 访谈相关人员；
- 评审提供的文件证据；
- 评估用于数据收集、汇总、分析和检查的量化方法和信息系统；
- 核查抽样场所和数据源。

核查结论：

基于核查工作实施过程和核查发现，海南文昌福耀硅砂有限公司在盘查报告中提供的温室气体排放量数据，与ISO 14064-1:2018 温室气体 - 部分1：组织层面温室气体排放和移除的量化和报告的要求及指南是相符的。

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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独立、公正和胜任能力声明：

必维集团是一家拥有190多年历史，在质量、环境、职业健康安全和社会责任领域提供独立验证服务的机构。必维核查团队与海南文昌福耀硅砂有限公司及其管理人员不存在其它的商业关系，核查团队的核查活动是独立的、公正的，不存在任何利益冲突。必维集团在整个业务范围内实施商业道德准则，以确保员工在日常业务活动中保持最高的道德标准。

核查组长：肖洁

核查日期：2025年02月19日

编号：EMI24881880

签发日期：2025年04月23日

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必维认证（北京）有限公司授权代表



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Greenhouse Gases Verification Opinion

is awarded to

HAINAN WENCHANG FUYAO SILICA SAND CO. LTD

Bureau Veritas Certification (Beijing) Co., Ltd. was engaged to conduct an independent verification of the greenhouse gases (GHG) emissions reported by Hainan Wenchang Fuyao Silica Sand Co. LTD for the period stated below. This verification opinion applies to the related information included within the scope of work described below.

Boundaries covered by the verification:

- Verification site name: Hainan Wenchang Fuyao Silica Sand Co. LTD
- Verification site address: Quanmei Village, Longlou Town, Wenchang City, Hainan Province, China
- **Reporting period covered:** 01/01/2024 to 31/12/2024
- **Organizational boundaries:** Activities and facilities of Hainan Wenchang Fuyao Silica Sand Co. LTD under operational control approach.
- **Reporting boundaries:** GHG emissions generated in Mined of raw sand and Manufacturing of silica sand, foundry sand and 3D printing sand and related management activities within the organizational boundaries, as well as significant indirect greenhouse gases emissions.

Emissions data verified under reporting boundaries:

- Category 1: Direct GHG emissions: 4924.58 tCO₂e
 - Category 2: Indirect GHG emissions from imported energy : 6644.35 tCO₂e
 - Category 3: Indirect GHG emissions from transportation: 7923.92 tCO₂e
 - Category 4: Indirect GHG emissions from products used by organization: 8398.72 tCO₂e
 - Category 5: Indirect GHG emissions associated with the use of products from the organization: Non-significant indirect emissions and not quantified
 - Category 6: Indirect GHG emissions from other sources: Non-significant indirect emissions and not quantified
- Total quantified emissions: 27891.57 tCO₂e

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

GHG verification protocol used to conduct the verification:

- ISO 14064-1:2018 Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals
- ISO 14064-3:2019 Greenhouse gases - Part 3: Specification with guidance for the verification and validation of greenhouse gas statements

Level of assurance:

- Reasonable assurance

GHG verification methodology:

- Interview for relevant personnel;
- Review of the documentary evidence;
- Evaluation of the methodology and information systems for data collection, aggregation, analysis and review;
- Audit of sampled sites and data to verify source.

Verification conclusion:

Based on the verification process and findings, the GHG emission data in the GHG inventory report from Hainan Wenchang Fuyao Silica Sand Co. LTD is in compliance with ISO 14064-1:2018 Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals.

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 opinion may be obtained by consulting the organization.

To check this opinion validity please call: +86 10 59683663 or +86 20 83073800



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Statement of independence, impartiality and competence:

Bureau Veritas Group is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with over 190 years' history in providing independent assurance services.

No member of the verification team has a business relationship with Hainan Wenchang Fuyao Silica Sand Co. LTD and its directors or managers beyond that required by this assignment. We conducted this verification independently and to our knowledge there has been no conflict of interest.

Bureau Veritas Group has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

Lead verifier: Jie Xiao

No.: EMI24881880

Version No.: No.1

Verification date: 19/02/2025

Issue date: 23/04/2025

Signed on behalf of
Bureau Veritas Certification (Beijing) Co., Ltd.

