QUALITY REPORT

Lankao Geothermal Based Space Heating System

VCS-4383 · VCS · China

Report ID: CM-5DC6D365 · Generated: 2026-04-23 · Scoring Methodology: General v2.0

5.3

Overall Score

out of 10

Integrity (35%)	6.0
Transparency (25%)	4.5
Claim Safety (25%)	5.0
Documentation (15%)	5.5

Weights: Integrity 35% · Transparency 25% · Claim Safety 25% · Documentation 15%

Assessment Summary

The project shows moderate integrity: a VVB confirmed additionality and monitoring covers 2021–2023, but key baseline and buffer details are missing and several items are contradictory across documents. Transparency and documentation are middling because monitoring and validation reports exist (high extraction confidence) but several quantitative fields (baseline method, emission factors, ERR figures) are not stated. Claim safety is moderate: CORSIA appears excluded, leakage is claimed to be quantified in the monitoring report, but contradictions and missing baseline details raise over■crediting risk.

Project Details

Registry	Verra (VCS)
Registry ID	VCS-4383
Sector	renewable_energy
Country	China
Vintage	Aging
Project Methodology	AM0072 03.0
Crediting Period	2021 — 2031
VVB	CTI Certification Co., Ltd.
Monitoring Period	2021 — 2023
Confidence	High
Documents Reviewed	10 documents reviewed
Scored	2026-04-23

Red Flags

■ No baseline methodology or baseline reassessment stated in available documents

■ Contradictory statements across validation/monitoring/issuance (e.g., additionality test type, safeguards/FPIC, leakage treatment)

Score Breakdown

Integrity — 6.0 / 10

+ Additionality confirmed by the VVB (CTI Certification) as stated in the verification/validation reports.

- Baseline method and buffer/buffer■pool percentage not stated in available documents, and leakage treatment is contradictory across reports which reduces confidence.

Additionality was confirmed by the VVB (CTI Certification) and an additionality test is documented (combined test in the PDD), which supports baseline credibility (verification report). However, the baseline methodology itself is not stated in the extracted record and buffer pool percentage is not provided, so permanence protections are unclear. Leakage is said to be 'quantified' in the monitoring report (monitoring report, 2024-02-22) but earlier validation documents did not address leakage (validation report, 2024-02-26/2023-10-30), reducing confidence in leakage treatment. Seventeen corrective action requests were raised and closed (monitoring report), which indicates some oversight but also prior deficiencies.

Transparency — 4.5 / 10

+ Monitoring report (2024-02-22) documents a defined monitoring period (2021-11-15 — 2023-03-18) and VVB identity is provided (CTI Certification).

- Key quantitative items are not publicly available in the extracted record: baseline method not stated, grid emission factor and verified ERR totals not provided.

The project provides several core documents (PDD, monitoring report, validation, issuance) and a clear monitoring period (2021-11-15 — 2023-03-18) per the monitoring report (2024-02-22). The VVB is named (CTI Certification). However, critical quantitative disclosure is missing from the extracted record: the baseline method is not stated, grid emission factor and verified emission reductions totals are not included, and buffer pool percentage is not reported. Extraction confidence is high, so these are genuine gaps in public documents rather than extraction issues.

Claim Safety — 5.0 / 10

+ Project is not CORSIA-eligible according to the extracted facts (reduces double-claim risk).

~ Leakage is described as quantified in the monitoring report (2024-02-22) but validation documents earlier did not address leakage; contradictions create uncertainty.

CORSIA eligibility is listed as false in the extracted facts, which reduces double■claim risk. There is a leakage justification described as quantified in the monitoring report (2024-02-22), which is positive, but this is contradicted by a validation document that indicated leakage was not addressed (validation report, 2024-02-26). The additionality test type is inconsistent across documents (PDD reports a combined test; issuance states an investment test), which raises a moderate risk of over■crediting or weak additionality argument if the more recent issuance reflects a different interpretation.

Documentation — 5.5 / 10

+ Multiple documents are present (PDD, monitoring report, validation, issuance) and extraction confidence is high with 10 documents used.

- Several contradictions between validation, monitoring and issuance (FPIC, safeguards, additionality test type, benefit sharing) and missing baseline/method details reduce completeness.

Evidence consists of multiple document types (PDD, monitoring report, validation report, issuance) and ten documents were used; extraction confidence is high. The monitoring report is dated 2024-02-22 and the validation documents include later dates, so recency is reasonable. Nevertheless, several contradictions across documents (safeguards, FPIC, benefit sharing, additionality test type, leakage) and missing baseline/method figures reduce the score for documentation completeness.

Risk Indicators

● **Additionality**	VVB-confirmed
● **Permanence**	buffer unclear
● **Leakage**	quantified but inconsistent
● **Baseline**	baseline not stated
● **Safeguards**	partially documented
● **Double-claim**	CORSIA excluded

What Would Improve This Score

→ Publish or link the baseline methodology and latest baseline reassessment, including grid emission factor and any ERR totals.

→ Reconcile and clearly document the resolution of contradictions (additionality test type, FPIC/safeguards, leakage) in a public corrective action closure statement or updated validation/issuance note.

Documents Reviewed

- Issuance-Representation-Single-PP-v4.3_4383.pdf
- VCS_R1_PRR_4383.pdf
- JPM_VCS4383_Lankao Geothermal Based Space Heating System_v03_Clean.pdf
- VCS4383_Heated Areas.kml
- Registration-Representation-Single-PP-v4.3_4383.pdf
- VCS-Listing-Representation-Single-Representor-Lankao.pdf
- Lankao Geothermal based Space Heating System-vcs-joint-project-description-monitoring-report-V1.pdf
- Validation_Representation_v4.2_VCS4383.pdf
- JVVR_VCS4383_Lankao Geothermal Based Space Heating System_V2.0_Clean.pdf
- Verification_Representation_v4.2_VCS4383.pdf

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