# SCREENING REPORT · GHCI-SAMPLE-LOT1

Prepared with HyGOAT SCREEN for GHCI certification readiness

Assessment ID: `GHCI-SAMPLE-LOT1` **Sample report: SPECIMEN**

## Kandla GHCI Gap Analysis Sample

Kandla Green Molecules Pvt Ltd (Sample)

India

**READY**

Indicative readiness 100 of 100; from self-declared inputs, before evidence review.

Target: Final Certificate

**0 Blocking** **0 Major** **0 Minor**

0 gaps identified across G1–G17 criteria

Screening, not certification. Findings reference MNRE GHCI F.No. 353/69/2024-NT as of rule set 2025-04-29.

Generated: 21 October 2026

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| **Assessment ID** | `GHCI-SAMPLE-LOT1` | **Version** | 1.0 |
| **Generated** | 21 October 2026 | **Classification** | PUBLIC SPECIMEN |

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| | | | |
|---|---|---|---|
| **Platform** | HyGOAT | **Legal Entity** | Ekavikalp Private Limited |
| **CIN** | U74900RJ2025PTC101787 | **DPIIT** | DIPP203806 |
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## Regulatory Framework References

- MNRE F.No. 353/69/2024-NT (GHCI Scheme, 29 Apr 2025)
- MNRE OM 353/35/2022-NT (Green Hydrogen Standard, 18 Aug 2023)
- BEE Accredited Carbon Verification (ACV)
- ISO 19870 (Hydrogen carbon intensity)
- ISO 14064 (GHG quantification)
- GHCI Portal Registration Guidelines

# Contents & reader guide

**Start here: stage decision first, then evidence, findings, action, and source basis.**

Each row is clickable and keeps the decision question physically bound to its section. Page references resolve in the generated report.


| # | Section | Decision answered | Page |
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| 1 | Certificate-Stage Fit Dashboard | Which GHCI pathway stage applies now? | 4 |
| 2 | Four-Stage Certification Pathway | Which production certificate is reachable from the current stage? | 5 |
| 3 | G1-G17 Finding and Consequence Matrix | Which GHCI gaps matter now? | 6 |
| 4 | GHG Calculation, Boundary, and Product Threshold | Does the product meet the GHCI threshold? | 7 |
| 5 | BEE/ACV Evidence and MRV Readiness | What evidence should I prepare before BEE-accredited verification agency engagement? | 8 |
| 6 | Stage-Specific Corrective Action Plan | What should I close before the applicable pathway stage? | 10 |
| 7 | Methodology, Assumptions, and Sources | What MNRE/CEA basis drove the result? | 11 |


### Two anchors for the rest of the report

- **Stage anchor (Section 1).** The stage-fit dashboard identifies the applicable stage and the next production certificate reachable.
- **Source anchor (Section 7).** The exact MNRE and CEA references that drove each result, with assumptions and versions.

### Pick up by reader role

| Reader | Where to start |
|---|---|
| **Founder / strategy** | Section 1 (stage fit) · Section 6 (action plan) |
| **Plant engineering** | Section 2 (pathway) · Section 4 (GHG calculation) |
| **Regulatory / GHCI compliance** | Section 3 (finding matrix) · Section 7 (sources) |
| **Verification / evidence owner** | Section 5 (BEE/ACV evidence) |

# Certificate-Stage Fit Dashboard

**Which GHCI pathway stage applies now, and which production certificate is reachable?**

The screening verdict follows the submitted gate and score result on the well-to-gate production boundary (up to purification, compression and onsite storage). Evidence readiness and certificate-stage prerequisites are separate. Section 2 distinguishes readiness stages from production certificates.

**GHCI Verdict** — **Domestic** · well-to-gate

**Indicative screening verdict: READY**

**Highest evidence-ready stage: Final Certificate**

**Boundary:** well-to-gate, up to purification, compression and onsite storage
**Total gaps:** 0 · Blocking: 0 · Major: 0 · Minor: 0

*Source: MNRE F.No. 353/69/2024-NT. Stage classification is indicative based on self-reported inputs; BEE-accredited verification agency review may revise.*

| Evidence readiness | Blocking gaps | Major gaps |
|---|---|---|
| **On Track** | **0** | **0** |
| Separate from screening verdict | Severity: blocking | Severity: major |

| Minor gaps | Highest ready | Target stage |
|---|---|---|
| **0** | **Final Certificate** | **Final Certificate** |
| Severity: minor | Stage evidence complete | Evidence-ready: yes |

## Plain-language decision key

| Term | What it means for this decision |
|---|---|
| Pathway stage | The highest stage whose prerequisite evidence is ready; the next stage is the next unmet gate. |
| Renewable source | The declared physical supply and procurement route; labels alone do not prove renewable-energy eligibility. |
| MRV | Measurement, reporting, and verification evidence connecting production, energy, water, and emissions records. |
| Evidence score | Completeness of self-declared screening inputs, not a probability of certification. |
| GHG margin | Distance from the product threshold, stated as above or below. Pending means a definitive calculation is unavailable. |

## Top blocking gaps

*No blocking gaps identified at current input level. See Section 3 for the full G1-G17 finding matrix.*

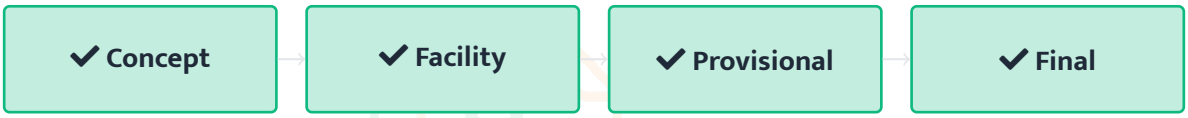
*Body sections detail each finding, threshold, and BEE evidence requirement. See Section 2 for the four-stage pathway.*

## Certification Stage Ladder

**Where am I in the GHCI pathway?**

The four-stage MNRE ladder separates the highest evidence-ready stage from the next unmet prerequisite. Earlier stages are evidence-ready; later stages remain downstream goals. The screening verdict is separate.

*Stage classification is indicative based on self-reported inputs. BEE-accredited verification agency review may revise.*




### Stage detail

| Stage | State | Applies when | Required behavior |
|---|---|---|---|
| **Concept stage** | ✔ Ready | FEED or DPR stage, before construction. | Surface design-readiness gaps and missing project documentation. |
| **Facility-level stage** | ✔ Ready | Operational facility, post consent-to-operate. | Confirm facility evidence, CTO status, and BEE-accredited verification agency readiness. |
| **Provisional Certificate** | ✔ Ready | Verified production within an evaluation cycle. | Validate first-cycle production data and cycle evidence gaps. |
| **Final Certificate** | ✔ Ready | Full financial-year evaluation cycle. | Close the annual GHCI compliance loop with full-cycle evidence. |

### Evidence focus by stage

| Stage | Evidence focus |
|---|---|
| Concept stage | Project documentation, RE-source intent, GHG calculation method. |
| Facility-level stage | Facility evidence, CTO, RE contract, metering installed. |
| Provisional Certificate | Cycle production data, MRV records, agency review. |
| Final Certificate | Year metering reconciliation, audit trail, declarations. |

*Stage classification is indicative based on self-reported inputs. BEE-accredited verification agency review may revise. The G1-G17 matrix in Section 3 details the findings that move stages.*

## G1-G17 Gap Matrix

**Which GHCI gaps matter now?**

The MNRE-aligned G1-G17 gap framework, scored against this project's self-reported inputs. Blocking gaps stop the targeted pathway stage or production certificate; major gaps block the Final cycle; minor gaps are improvement notes.

No GHCI gaps identified at current input level. Re-screen with full inputs for granular gap analysis.

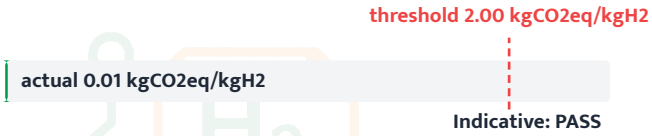
*Severity reflects self-reported inputs. BEE-accredited verification agency review may revise.*

## GHG Threshold Panel

**Does the product meet the GHCI threshold?**

A single product-specific threshold scored on the GHCI production boundary. The bar shows actual against the H2 threshold; the GEF and T&D tile names the CEA assumptions used; the breakdown lists each in-scope component cited to its primary source.

### Product threshold vs current intensity




| Computed intensity | GHCI threshold | Margin |
|---|---|---|
| **0.01** kgCO2eq/kgH2 | **2.00** Source: GHCI-THRESHOLD-2P0 | **1.99 below** Threshold 2.00 kgCO2eq/kgH2 |

### GEF and T&D Assumptions

GEF: **0.710** kgCO2/kWh
Source: GHCI-GEF-0P710

T&D loss: **17.63**%
Source: GHCI-TDL-0P1763

*GHCI screen uses the well-to-gate production boundary. Grid electricity is divided by (1 - T&D loss), GHCI Annexure B Eq. 4. CEA GEF and T&D values may change in future CEA releases.*

### Calculation breakdown (in-scope components)

| Component | GHCI treatment | Source |
|---|---|---|
| Production stage | Electricity, fuel, steam, feedstock and input materials up to purification, compression and onsite storage (Annexure B Eq. 1) | MNRE F.No. 353/69/2024-NT · GHCI-BOUNDARY-W2G |
| Grid electricity | Apply CEA grid emission factor and T&D loss | GHCI-GEF-0P710 · GHCI-TDL-0P1763 |
| Water treatment | Fixed screening value: 9 L water per kg $H_2$ at 0.001 kgCO2e per kg water; source-specific factors are not applied | MNRE OM No. 353/69/2024-NT, 18 June 2026 (offsite water guideline) |
| Materiality | Individual below 1% of threshold; total below 5% | GHCI-MATERIALITY-1-5 · GHCI Framework S8.1 |

*Indicative threshold check on the GHCI production boundary. BEE-accredited verification agency review may revise. The calculation audit trail resolves in Section 7.*

# BEE Verification Readiness Pack

**What evidence should I prepare before BEE-accredited verification agency engagement?**

Six evidence classes per the GHCI scheme. Each row lists the typical required items, what the screening observed in self-reported inputs, the gaps still open, and the pathway stage(s) or production certificate milestone(s) it gates. Final acceptance rests with the BEE-accredited verification agency.

| Evidence class | Required | Supplied | Missing | Stage gate |
|---|---|---|---|---|
| Project stage | FEED, DPR, CTO, operating cycle, final-cycle evidence | Commissioning date; Compliance stage | | All four stages |
| Facility and production | Production method, product type, capacity, operating records | Product: Hydrogen; Production method | | Facility / Provisional |
| Renewable sourcing | Captive, PPA, grid + green tariff, G-DAM evidence | Connection: Captive / Direct Connection; RE type declared | | Facility / Provisional |
| GHG calculation | Threshold, GEF, T&D, water treatment, co-product allocation | Intensity declared; Boundary declared | | Provisional / Final |
| MRV and metering | Measurement system, data retention, audit trail | Data collection system; Mass balance | | Provisional / Final |
| Verification agency | BEE-accredited verification agency, declarations, submission artifacts | BEE ACV: Engaged; Existing certification | | All four stages |

## How to read this pack

- **Required.** Typical evidence items the BEE-accredited verification agency expects for the class.
- **Supplied.** What the screening observed in self-reported inputs.
- **Missing.** Findings still open at the targeted certification stage; severity in Section 3.
- **Stage gate.** The pathway stage(s) or production certificate milestone(s) where the class is gating.

## Operational electricity evidence lineage

Status-only, self-declared evidence facts. No document was uploaded or authenticated by HyGOAT.

| Evidence family | Status | Source period | Recorded facts |
|---|---|---|---|
| Banking and wheeling | not recorded | not recorded | No supporting facts recorded |
| Monthly invoice / JMR reconciliation | not recorded | not recorded | No supporting facts recorded |
| Metering and calibration | not recorded | not recorded | No supporting facts recorded |

No unsupported multi-source, backup-generation, or net-metering condition was declared in the screening input.

## Evidence record schematics

HyGOAT-authored field checklists, not customer documents or proof of BEE-accredited verification agency acceptance. Use them to recognise the information a redacted record should expose.

| Evidence family | Visible fields in a useful redacted record | Reconciliation link |
|---|---|---|
| PPA / settlement | Parties, generation asset ID, contract and delivery period, contracted and delivered volume, invoice or settlement reference, attribute-transfer clause | Contract → monthly settlement → renewable attributes |
| Meter / JMR | Meter ID and owner, interval, opening and closing readings, import/export, loss adjustment, period, counterparty signatures | Meter register → JMR → invoice |
| Calibration | Meter ID, laboratory or issuer, accreditation reference, calibration date and due date, error and uncertainty statement | Certificate → meter ID → reporting period |
| Production report | Batch or period, product mass, electricity, water and fuel inputs, co-products, meter references, preparer and approval | Production mass → activity data → GHG file |

*Evidence requirements reflect MNRE F.No. 353/69/2024-NT and the BEE accreditation framework. BEE-accredited verification agency review may revise. Stage gates differ across Concept, Facility-level, Provisional, and Final; see Section 2 for the pathway.*

## Stage-Specific Corrective Action Plan

Columns in order of urgency. Now: every blocking gap, then every pending fact, in priority order. Before BEE agency: major items to close before BEE-accredited verification agency engagement. Before final cycle: minor items the final-cycle dataset will need. A column with no items is not shown.

No open gaps. The next stage gate is not blocked by a recorded gap.

**Stage recommendation**

Ready to prepare for BEE-accredited verification agency engagement against Final Certificate. No minor gaps are identified. Assemble the evidence pack for agency review.

**Action closure register**

| Finding | Suggested accountable role | Closure evidence | Re-screen trigger |
|---|---|---|---|
| None open | Project lead | Preserve the current evidence pack | Re-screen after any material input or boundary change |

*To discuss how to prepare the evidence pack before agency engagement, contact info@hygoat.in.*

# Regulatory Methodology and Sources

Every verdict in this report is anchored in MNRE primary sources and CEA assumption versions. Use this register to walk back from any finding in Sections 1-6 to its regulatory basis.

## Decision-value lineage

User-declared inputs are labelled explicitly. CEA factors and GHCI rules are screening references, not authenticated customer evidence.

| Input | Source / period | Factor or formula | Rule and decision use |
|---|---|---|---|
| Product intensity | Computed by the GHCI engine from the declared power supply; not recorded | ISO 14067 | Production-boundary input under MNRE F.No. 353/69/2024-NT |
| Grid electricity | CEA factor register | GEF 0.710 kgCO2/kWh; grid kWh divided by (1 - 17.63% T&D loss) | Applies when grid electricity enters the declared production calculation |
| Renewable share | Step 3 instrument | 100% own generation, PPA, green tariff, G-DAM; else 0% | Taken from the instrument type, not from metered evidence (GHCI S9.3, S9.4) |
| Product threshold | MNRE product-specific OM | 2.00 kgCO2eq/kgH2 | Threshold source GHCI-THRESHOLD-2P0 |
| Indicative result | Derived screening value | 0.01 - 2.00 | Distance from the threshold: 1.99 below |

| Source | Role in this report |
|---|---|
| **MNRE F.No. 353/69/2024-NT** | Primary GHCI framework: scope, four-stage certification pathway, threshold rules. |
| **GHCI-BOUNDARY-W2G** | Boundary: production up to purification, compression and onsite storage, with electricity, fuel, steam, feedstock and input materials (S7, Annexure B Eq. 1). Excludes transport and end-use. |
| **GHCI-THRESHOLD-2P0** | H2 threshold 2 kgCO2eq/kgH2 drives the verdict in Section 4. |
| **GHCI-GEF-0P710** | CEA grid emission factor 0.710 kgCO2/kWh applied to grid electricity intensity. |
| **GHCI-TDL-0P1763** | CEA T&D loss 17.63%. Grid electricity is divided by (1 - 17.63%), GHCI Annexure B Eq. 4. |

## What this report includes

- Production stage emissions (electrolyser feed and process heat).
- Grid electricity divided by (1 - 17.63% T&D loss) and scaled by GEF (0.710), GHCI Annexure B Eq. 4.
- Water treatment as a fixed screening value (9 L/kg$H_2$ at 0.001 kgCO2e/kg water); declared other sources.

## What this report excludes

- Downstream transport to end-customer (outside the GHCI production boundary).
- End-use combustion or fuel-cell oxidation (outside the GHCI production boundary).
- RFNBO methodology, CertifHy benchmarks, H2Global tender thresholds.

*Source registry as of report generation date. Refer to the cited primary sources for binding text. CEA GEF and T&D values may change in future CEA releases.*

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