# SIDHI MARWADI PRIVATE LIMITED

**Dedicated to Nature and Culture**

## IN-HOUSE QUALITY CONTROL & ANALYTICAL TEST REPORT

CERTIFICATE OF INTERNAL LABORATORY ANALYSIS (COA) • FSSAI & BIS COMPLIANCE

**Executive Quality Statement:** At Sidhi Marwadi Private Limited, purity, transparency, and traditional authenticity are the cornerstones of our production process. Every batch of our Turmeric (Haldi) Powder is cold-processed and rigorously audited by our In-House Quality Assurance & Analytical Division prior to packaging. This report documents the comprehensive physical, chemical, contaminant, and microbiological evaluation conducted in accordance with the Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011 (Regulation 2.9.18) and BIS / ISO analytical protocols.

### 1. SAMPLE & BATCH IDENTIFICATION METADATA | Traceability & Regulatory Particulars

| | | | |
|---|---|---|---|
| **Product Name** | Sidhi Marwadi Pure & Traditional Turmeric (Haldi) Powder | **Report Reference No.** | SMPL/QC/COA/2026/1108 |
| **Botanical / Commodity Name** | Curcuma longa L. (Whole Dried Rhizome Ground) | **Date of Sampling & Analysis** | 15 November 2026 |
| **Batch / Lot Number** | 26/H1000/J10 | **Manufacturing / Packing Date** | November 2026 (Shelf Life: 9 Months) |
| **Testing Facility** | In-House Quality Control & Analytical Lab, Sidhi Marwadi Pvt. Ltd., Jodhpur | **FSSAI License Number** | 12224999000329 |
| **Sample Condition & Packaging** | Intact, Sealed Food-Grade Retail Pack (1KG Control Sample) | **Overall Batch Verdict** | **COMPLIANT / PASSED (100% PURE)** |

### 2. ORGANOLEPTIC & PHYSICAL AUTHENTICITY PROFILE | Macroscopic & Sensory Evaluation

| | |
|---|---|
| Appearance & Colour | Bright natural golden-yellow to deep warm orange-yellow; completely free from synthetic dye fluorescence. |
| Aroma & Flavour | Characteristic warm, earthy, aromatic peppery bouquet of fresh Marwadi turmeric rhizomes; zero musty or stale odour. |
| Texture & Consistency | Free-flowing, fine uniform powder with zero clumping, caking, grittiness, or foreign fibrous residue. |

SIDHI MARWADI PRIVATE LIMITED CIN: U10795RJ2025PTC102887

REGISTERED OFFICE :
C/O SIDHI MARWADI, KHASRA NO. 1242/655 KUDI DHORU, KUDI, PIPAR ROAD, JODHPUR, RAJASTHAN, INDIA, 342606
CIN: U10795RJ2025PTC102887 | GSTIN: 08ABQCS2572P1ZE | FSSAI LIC. NO.: 12224999000329
8947914000, 9799956480 BUSINESS@SIDHIMARWADI.COM WWW.SIDHIMARWADI.COM

SCAN QR

## 3. COMPREHENSIVE ANALYTICAL & SAFETY TEST RESULTS | Audited 14-Point Laboratory Evaluation

| S.No. | Test Parameters | Unit | Observed Test Result | Regulatory Requirement / Specification Limit (FSSAI / BIS) | Validated Method / Source Protocol | Status |
|---|---|---|---|---|---|---|
| 1 | **Moisture Content** | % by mass | **6.0%** | ≤ 10.0% (Max) | FSSAI 10.005:2021 / Oven Gravimetric Method | **Complies** |
| 2 | **Total Ash (Dry Basis)** | % by mass | **5.0%** | ≤ 9.0% (Max) | FSSAI 10.006:2021 / Gravimetric Method | **Complies** |
| 3 | **Acid-Insoluble Ash (Dry Basis)** | % by mass | **≤ 0.2%** | ≤ 1.5% (Max) | FSSAI 10.007:2021 / Dilute HCl Gravimetric | **Complies** |
| 4 | **Curcuminoid Content (Dry Basis)** | % by mass | **≈ 4.0%** | ≥ 2.0% (Min) | FSSAI Manual Method; Spectrophotometric / Validated HPLC | **Superior** |
| 5 | **Total Starch (Endogenous)** | % by mass | **≈ 40.0%** | ≤ 60.0% (Max) | FSSAI 10-Series Validated Starch Method | **Complies** |
| 6 | **Lead Chromate (Adulterant)** | Qualitative | **Negative (Absent)** | Negative (Must be Absent) | FSSAI 10-Series; Chemical & Instrumental Confirmation | **Complies** |
| 7 | **Pesticide Residues (Multi-Residue Crop Panel)** | mg/kg | **BLQ (Not Detected)** | ≤ Applicable FSSAI Commodity MRLs (LOQ ≤ 0.01 mg/kg) | LC-MS/MS + GC-MS/MS Multi-Residue Screen | **Complies** |

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| S.No. | Test Parameters | Unit | Observed Test Result | Regulatory Requirement / Specification Limit (FSSAI / BIS) | Validated Method / Source Protocol | Status |
|---|---|---|---|---|---|---|
| 8 | **Heavy Metals (Pb, Cd, As, Hg)** | mg/kg | **Pb, Cd, As, Hg: BLQ** | Within FSSAI Contaminant Limits (Pb ≤10, Cd ≤1.5, As ≤1.1, Hg ≤1.0) | ICP-MS / ICP-OES Validated Method | **Complies** |
| 9 | **Aflatoxins / Mycotoxins (B1 & Total)** | µg/kg | **BLQ (Not Detected)** | Total Aflatoxins ≤ 30 µg/kg; Aflatoxin B1 ≤ 15 µg/kg (FSSAI) | HPLC-FLD / LC-MS/MS | **Complies** |
| 10 | **Ethylene Oxide (EtO) & 2-Chloroethanol (2-CE)** | mg/kg | **BLQ (Not Detected)** | Not Detected at Low LOQ (≤ 0.01 mg/kg; FSSAI & Export Spec) | GC-MS/MS | **Complies** |
| 11 | **Salmonella spp.** | Presence / 25 g | **Absent in 25 g** | Absent in 25 g (Zero Tolerance Safety Criterion) | ISO 6579-1 / FSSAI Microbiology Manual | **Complies** |
| 12 | **Total Plate Count (TPC), Yeast & Mould, E. coli** | CFU/g or Presence | **Low TPC & Yeast/Mould within limits; E. coli: Absent** | TPC ≤ $10^6$ CFU/g; Yeast & Mould ≤ $10^4$ CFU/g; E. coli: Absent in 1 g | IS 5402, IS 5403, ISO 16649 / FSSAI Manual | **Complies** |
| 13 | **Adulterant & Filler Screen** | Qualitative / % | **Negative (0.0%)** | No added foreign starch, flour, sawdust, synthetic colour, or mineral matter | Microscopy + Iodine Screen; Confirmatory HPLC/LC-MS for Dyes | **Complies** |
| 14 | **Foreign Matter & Insect Damage** | % by mass | **0.0% (Nil)** | Free from visible foreign matter, moulds & live/dead insects (≤ 1.0%) | Manual Sorting / FSSAI Physical Examination | **Complies** |

*Technical Abbreviations: BLQ = Below Limit of Quantification (Not Detected); LOQ = Limit of Quantification; MRL = Maximum Residue Limit; CFU/g = Colony Forming Units per gram; FSSAI = Food Safety and Standards Authority of India; BIS = Bureau of Indian Standards; HPLC-FLD = High-Performance Liquid Chromatography with Fluorescence Detection; ICP-MS = Inductively Coupled Plasma Mass Spectrometry.*

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## 4. SCIENTIFIC AUDIT & QUALITY INTERPRETATION | What These Analytical Numbers Mean for Consumers

- **High Bioactive Curcuminoid Potency (≈ 4.0% vs. ≥ 2.0% Standard):** While standard commercial turmeric is legally required to contain a minimum of 2.0% curcuminoids, Sidhi Marwadi Turmeric delivers approximately 4.0% natural curcuminoids on a dry basis—double the statutory baseline. This guarantees rich natural golden colour, strong antioxidant and anti-inflammatory potency, and superior culinary aroma using smaller quantities.
- **Ultra-Low Moisture (6.0%) & Superior Siliceous Purity (Acid-Insoluble Ash ≤ 0.2%):** Maintaining moisture at 6.0% (well below the 10.0% maximum) naturally prevents fungal proliferation and lump formation without chemical anti-caking agents. Furthermore, an acid-insoluble ash level of ≤ 0.2% (against a 1.5% limit) proves meticulous multi-stage rhizome washing and polishing, leaving zero sand, dirt, or siliceous grit.
- **100% Free from Chemical Adulterants, Synthetic Dyes & Foreign Starches:** Unscrupulous market practices often adulterate turmeric with toxic Lead Chromate (for bright yellow shine), Metanil Yellow, Sudan dyes, or cheap chalk/maize starch fillers. Microscopic iodine screening and chemical/chromatographic assays confirm 0.0% foreign fillers, Negative Lead Chromate, and natural endogenous starch (~40%).
- **Zero Pesticide Residues, Heavy Metals, Aflatoxins & Ethylene Oxide (BLQ):** Advanced multi-residue screening confirms that toxic heavy metals (Lead, Cadmium, Arsenic, Mercury), mycotoxins (Aflatoxins), agricultural pesticides, and chemical fumigants (Ethylene Oxide / 2-CE) are Below Limit of Quantification (BLQ), meeting both Indian FSSAI and stringent international export safety benchmarks.

## 5. QUALITY ASSURANCE DECLARATION & AUTHORIZED SIGNATORY | In-House Laboratory Verification & Transparency Notice

**Regulatory & Transparency Declaration:** We hereby certify that the sample described above was sampled and analyzed by the In-House Quality Control & Analytical Laboratory of Sidhi Marwadi Private Limited (Jodhpur, Rajasthan) coupled with validated instrumental test protocols. Based on the 14-point audit above, the product conforms to all mandatory quality and food safety parameters stipulated under FSSAI Regulation 2.9.18 (Turmeric / Haldi Powder) and IS 3576. This report is published on www.sidhimarwadi.com for consumer education and batch transparency.

| ANALYZED & PREPARED BY | REVIEWED & VERIFIED BY | APPROVED & AUTHORIZED BY |
|---|---|---|
| Deepa | SIDHI MARWADI PRIVATE LIMITED U10795RJ2025PTC102887 | For SIDHI MARWADI PRIVATE LIMITED DIRECTOR |
| Quality Control Analyst<br>In-House Analytical Lab<br>Sidhi Marwadi Private Limited<br>Date: 15/11/2026 | Head – Quality Assurance (QA)<br>Food Safety & Compliance Division<br>Sidhi Marwadi Private Limited<br>FSSAI Lic. No.: 12224999000329 | Authorized Signatory / Director<br>Sidhi Marwadi Private Limited<br>Jodhpur, Rajasthan - 342606<br>[Official Company Stamp / Seal] |