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 spice processing heritage. Every batch of our Coriander (Dhaniya) Powder is slow-ground at low temperatures from farm-fresh, sun-matured whole Marwadi coriander seeds to preserve delicate essential oils (Linalool) and rigorously audited by our In-House Quality Assurance & Analytical Division prior to packaging. This report documents the comprehensive physical, proximate, volatile essential oil potency, chemical adulteration, contaminant, and microbiological evaluation conducted in accordance with the Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011 (Regulation 2.9.7 – Coriander / Dhania Powder) and BIS (IS 2444) / ISO analytical protocols.

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

Product Name	Sidhi Marwadi Pure & Traditional Coriander (Dhaniya) Powder	**Report Reference No.**	SMPL/QC/COA/2026/1110
Botanical / Commodity Name	Coriandrum sativum L. (Whole Dried Coriander Seeds Ground)	**Date of Sampling & Analysis**	15 November 2026
Batch / Lot Number	26/D1000/K09	**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	Natural olive-greenish to warm golden-brown hue characteristic of unbleached, sun-cured whole coriander seeds; zero artificial green/yellow dye.
Aroma & Flavour	Rich, sweet-citrusy, floral, and warm spicy bouquet driven by high natural Linalool volatile oil; zero musty, stale, or chaffy odour.
Texture & Consistency	Uniform, free-flowing aromatic powder with natural essential oil richness; completely free from woody husk splinters, grit, or caking.

SIDHI MARWADI PRIVATE LIMITED CIN U10795RJ2025PTC102887

3. COMPREHENSIVE ANALYTICAL & SAFETY TEST RESULTS | Audited 12-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	**5.0%**	≤ 9.0% (Max)	FSSAI 10.005:2021 / Oven Gravimetric Method	**Superior**
2	**Volatile Oil Content (Dry Basis)**	% v/w	**0.30% v/w**	≥ 0.09% v/w (Min)	FSSAI Steam Distillation / Clevenger-Type Method	**Superior**
3	**Total Ash (Dry Basis)**	% by mass	**4.0%**	≤ 7.0% (Max)	FSSAI 10.006:2021 / Gravimetric Method	**Superior**
4	**Acid-Insoluble Ash (Dry Basis)**	% by mass	**≤ 0.2%**	≤ 1.5% (Max)	FSSAI 10.007:2021 / Dilute HCl Gravimetric	**Superior**
5	**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**
6	**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**
7	**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**

SIDHI MARWADI PRIVATE LIMITED CIN: U10795RJ2025PTC102887

S.No.	Test Parameters	Unit	Observed Test Result	Regulatory Requirement / Specification Limit (FSSAI / BIS)	Validated Method / Source Protocol	Status
8	**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**
9	**Salmonella spp.**	Presence / 25 g	**Absent in 25 g**	Absent in 25 g (Zero Tolerance Safety Criterion)	ISO 6579-1 / FSSAI Microbiology Manual	**Complies**
10	**Total Plate Count (TPC), Yeast & Mould, E. coli**	CFU/g or Presence	**Low TPC & Yeast/Mould counts; 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**
11	**Adulterant, Artificial Dye & Filler Screen**	Qualitative / %	**Negative (0.0%)**	No added foreign starch, flour, sawdust, horse dung/bran, synthetic colour, or mineral matter	Microscopy + Iodine Screen; Confirmatory HPLC/LC-MS for Dyes	**Complies**
12	**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: % v/w = Volume per Weight (mL per 100 g); 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.

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

- **Over 3× Higher Volatile Essential Oil Potency (0.30% v/w vs. ≥ 0.09% FSSAI Baseline):** The true culinary aroma and digestive benefits of Coriander (Dhaniya) Powder come from its delicate volatile oil (primarily Linalool). Commercial high-speed grinding generates intense friction heat that evaporates these oils, or uses 'spent' seeds from which essential oil has already been extracted. Sidhi Marwadi Coriander Powder retains 0.30% v/w volatile oil—more than triple the FSSAI minimum requirement (0.09% v/w)—confirming slow, low-temperature grinding of fresh, unextracted whole seeds.
- **Ultra-Low Moisture (5.0% vs. ≤ 9.0% Limit) for Natural Aroma Lock:** Coriander powder is highly hygroscopic and loses its fresh citrusy aroma rapidly when moisture is high. By maintaining moisture at just 5.0% (well below the 9.0% statutory limit), our powder naturally resists fungal growth, lump formation, and aroma degradation without artificial anti-caking chemicals.
- **Superior Mineral Purity (Total Ash 4.0% & Acid-Insoluble Ash ≤ 0.2%):** During harvesting, coriander seeds often carry field dust, soil clods, and stalks. Our multi-stage air-classification and destoning process keeps Total Ash at 4.0% (vs. ≤ 7.0% limit) and Acid-Insoluble Ash at ≤ 0.2% (vs. ≤ 1.5% limit), guaranteeing zero sand, soil, talc, or siliceous grit in your meals.
- **100% Free from Sawdust, Husk Fillers, Synthetic Green Dyes & Chemical Contaminants:** Adulterated market coriander powder frequently contains powdered sawdust, horse dung/bran, cereal starch, or synthetic Malachite Green /igs dyes to mimic fresh green dhaniya. Microscopic and chromatographic screening confirms 0.0% fillers or dyes, while Pesticides, Heavy Metals (Pb, Cd, As, Hg), Aflatoxins, and Ethylene Oxide (EtO) are all Below Limit of Quantification (BLQ).

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 12-point audit above, the product conforms to all mandatory quality and food safety parameters stipulated under FSSAI Regulation 2.9.7 (Coriander / Dhania Powder) and IS 2444. 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 CIN: U10795RJ2025PTC102887	For SIDHI MARWADI PRIVATE LIMITED DIRECTOR
Quality Control Analyst In-House Analytical Lab Sidhi Marwadi Private Limited Date: 15/11/2026	Head – Quality Assurance (QA) Food Safety & Compliance Division Sidhi Marwadi Private Limited FSSAI Lic. No.: 12224999000329	Authorized Signatory / Director Sidhi Marwadi Private Limited Jodhpur, Rajasthan - 342606 [Official Company Stamp / Seal]