

SESBANIA SEEDS

Technical Specifications & Buyer's Guide

Complete Data Sheets for 6 Sesbania Species

KOHENOOR INTERNATIONAL

Seed Exporters Since 1957 | Faisalabad, Pakistan

2026 Edition

sesbaniaseed.com

Table of Contents

1	Species Comparison Table	3
.		
2	Seeding Rate Guide	5
.		
3	Nutritional Profile & Feed Value	6
.		
4	Germination & Growing Guide	7
.		
5	Export & Quality Certifications	8
.		
6	Ordering Information	9
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This guide provides comprehensive technical data for agricultural buyers, importers, and agronomists working with Sesbania species. All specifications are based on Kohenoor International's quality-tested export-grade seeds.

About Kohenoor International: Established in 1957 in Faisalabad, Pakistan, Kohenoor International is a leading exporter of Sesbania seeds and other agricultural commodities. We serve customers in 70+ countries across 5 continents with ISO-certified, phytosanitary-compliant products.

1. Species Comparison Table

Comprehensive comparison of six commercially important Sesbania species. Values represent typical ranges for export-grade seeds from Kohenoor International.

Attribute	<i>S. bispinosa</i>	<i>S. grandiflora</i>	<i>S. sesban</i>	<i>S. rostrata</i>	<i>S. aculeata</i>	<i>S. speciosa</i>
Common Names	Dhaincha	Agathi / Katurai	Egyptian Sesban	Stem-nodulating Sesban	Prickly Sesban	Cockspur Coral
Origin	South Asia	SE Asia	Africa	SE Asia	South Asia	Americas
Height (m)	2 - 4	8 - 12	3 - 6	2 - 3	2 - 5	1 - 3
Growth Rate	Fast	Very Fast	Fast	Fast	Moderate	Slow
Days to Maturity	60 - 90	90 - 120	70 - 100	50 - 70	80 - 120	90 - 150
Seeds per kg	45,000	15,000	35,000	50,000	40,000	30,000
Germination (%)	85%+	80%+	82%+	80%+	82%+	75%+
Seed Purity (%)	98%+	97%+	97%+	96%+	97%+	95%+
Crude Protein (% DM)	20 - 25%	28 - 36%	18 - 22%	15 - 20%	16 - 20%	12 - 16%
N-Fixation (kg N/ha/yr)	80 - 120	60 - 100	100 - 200	150 - 300	60 - 100	40 - 60
Salt Tolerance (dS/m)	6 - 8	4 - 6	5 - 7	8 - 10	4 - 6	3 - 5
Waterlogging Tolerance	High	Moderate	Moderate	Very High	Moderate	Low
Drought Tolerance	Moderate	Low	Moderate	Low	Moderate	Moderate
Primary Uses	Green manure, rice paddies	Edible, medicinal, fodder	Agroforestry, fodder	Green manure, flooded fields	Fiber, green manure	Ornamental, erosion control
Best Markets	South Asia, SE Asia	SE Asia, India	Africa	Bangladesh, Vietnam	India, Pakistan	Americas

Note: All values are indicative and may vary based on growing conditions, harvest timing, and post-harvest processing. Contact Kohenoor International for lot-specific test reports.

2. Seeding Rate Guide

Recommended seeding rates vary by application. The following table provides guidelines for optimal stand establishment across different use cases.

Use Case	Rate (kg/ha)	Rate (kg/acre)	Row Spacing	Depth (cm)	Notes
Green Manure	25 - 35	10 - 14	20 - 30 cm	2 - 3	Broadcast or drill; incorporate at 50% flowering
Fodder Production	30 - 40	12 - 16	40 - 60 cm	2 - 4	First cut at 60-75 days; allows regrowth
Cover Crop	20 - 30	8 - 12	20 - 30 cm	2 - 3	Drill seeded; terminate before seed set
Agroforestry	5 - 10	2 - 4	2 - 3 m	3 - 5	Wide spacing for intercropping systems
Aquaculture Pond Bank	15 - 20	6 - 8	30 - 50 cm	2 - 3	Plant on pond levees; leaf harvest for fish feed

Key Recommendations

- **Soil Preparation:** Prepare a fine, firm seedbed. Sesbania germinates best in moist, well-drained soil with minimal weed competition.
- **Seeding Depth:** Do not exceed 4 cm depth. Shallow planting (2-3 cm) ensures faster, more uniform emergence.
- **Inoculation:** For fields without prior Sesbania cultivation, inoculate seeds with appropriate Rhizobium strain for maximum nitrogen fixation.
- **Timing:** Plant at the onset of the rainy season or when soil temperatures consistently exceed 20 degrees C.
- **Scarification:** Pre-treat hard-coated seeds to improve germination uniformity (see Germination Guide, page 7).

3. Nutritional Profile & Feed Value

Sesbania leaves and young shoots are highly nutritious livestock fodder, rivalling alfalfa in crude protein content. The table below compares Sesbania with common tropical and temperate fodder crops.

Fodder Crop	Crude Protein (% DM)	TDN (%)	Fat (%)	Crude Fiber (%)
Sesbania (avg.)	20 - 28	55 - 65	2.1	15 - 20
Alfalfa	18 - 22	58 - 62	2.5	22 - 28
Sorghum Fodder	8 - 12	55 - 60	2.0	28 - 32
Rhodes Grass	10 - 14	52 - 58	1.8	30 - 34
Bermuda Grass	12 - 16	54 - 60	2.2	26 - 30

Feeding Guidelines

- **Ruminants (cattle, goats, sheep):** Sesbania foliage can replace up to 30-40% of concentrate feed. Mix with low-protein roughage for balanced rations.
- **Poultry:** Dried Sesbania leaf meal can be included at 5-10% of total diet as a protein and pigment source.
- **Aquaculture:** Fresh or dried leaves are used as supplementary feed for tilapia and carp at 3-5% of body weight per day.
- **Anti-nutritional factors:** Sesbania contains saponins at low levels. Sun-drying or brief wilting reduces these to safe levels for livestock.

DM = Dry Matter; TDN = Total Digestible Nutrients; CP = Crude Protein; CF = Crude Fiber. Values are approximate and may vary by species, maturity stage, and growing conditions.

4. Germination & Growing Guide

Seed Scarification Methods

Sesbania seeds have a hard seed coat that can impede water absorption. Scarification breaks dormancy and significantly improves germination rate and uniformity.

Method	Procedure	Duration	Expected Improvement
Hot Water Soak	Immerse seeds in water at 80 deg. C, allow to cool naturally	3 minutes soaking	+15-25% germination
Mechanical Scarification	Abrade seed coat using sandpaper or scarification machine	Until coat is nicked	+20-30% germination
Acid Treatment (H ₂ SO ₄)	Soak in concentrated sulfuric acid, rinse thoroughly with water	10 minutes soaking	+25-35% germination
Overnight Soak	Soak in room-temperature water for 12-24 hours	12-24 hours	+10-15% germination

Optimal Growing Conditions

Parameter	Specification
Optimal Temperature	25 - 35 deg. C (germination and growth)
Days to Emergence	3 - 7 days under optimal conditions
Soil pH Range	5.5 - 8.5 (tolerates mildly acidic to alkaline)
Soil Type	Adaptable; performs well in clay, loam, and sandy soils
Water Requirements	Moderate; 500-800 mm annual rainfall or equivalent irrigation
Fertilizer	Generally not required due to nitrogen-fixing ability; 20-30 kg P ₂ O ₅ /ha recommended
Weed Management	Keep weed-free for first 3-4 weeks; canopy closure provides natural suppression
Pest & Disease	Generally resistant; occasional pod borers managed with neem-based sprays

5. Export & Quality Certifications

Kohenoor International provides comprehensive documentation to meet international import regulations. All shipments include the following certifications and reports:

Certificate / Document	Description	Issuing Authority
Phytosanitary Certificate	Confirms seeds are free from quarantine pests and diseases	Dept. of Plant Protection, Pakistan
Certificate of Origin	Verifies country of origin for customs and trade agreements	Chamber of Commerce, Pakistan
SGS Inspection Certificate	Independent third-party quality and quantity verification	SGS Pakistan (or equivalent)
Fumigation Certificate	Confirms treatment with approved fumigants (phosphine / methyl bromide)	Licensed fumigation service provider
Quality Test Report	Laboratory analysis: germination rate, purity, moisture, weed seeds, inert matter	Kohenoor QC Lab / Third-party lab
ISTA Certificate	International seed testing standards compliance (available on request)	ISTA-accredited laboratory

Kohenoor International Quality Assurance

- **ISO Certified Operations:** Our processing and packaging facilities maintain ISO quality management certification, ensuring consistent product quality across all shipments.
- **In-house Quality Control Laboratory:** Every lot is tested for germination rate, physical purity, moisture content, and weed seed contamination before export.
- **Phytosanitary Compliance:** We maintain active registration with the Department of Plant Protection, Government of Pakistan, and comply with IPPC standards.
- **Traceability:** Full lot traceability from farm gate to port of shipment. Each shipment carries a unique lot number linked to origin, processing, and test records.
- **Customized Testing:** Additional testing (ISTA, specific pathogen panels, GMO-free certification) available upon buyer request.

6. Ordering Information

Kohenoor International makes ordering simple and transparent. Below you will find all the information needed to place an order for Sesbania seeds.

Parameter	Details
Minimum Order Quantity (MOQ)	1 Metric Ton (MT) Smaller sample quantities negotiable for new buyers
Available Species	S. bispinosa, S. grandiflora, S. sesban, S. rostrata, S. aculeata, S. speciosa
Packaging Options	Standard: 25 kg or 50 kg woven polypropylene (PP) bags Custom: Branded bags, vacuum packing, or bulk containers
Payment Terms	Letter of Credit (L/C) at sight Telegraphic Transfer (T/T) - 30% advance, 70% against BL Western Union (for small orders / samples)
Shipping	FCL (Full Container Load): 20 ft or 40 ft containers LCL (Less than Container Load) available Port of Loading: Karachi, Pakistan
Lead Time	7 - 14 business days after payment confirmation Subject to stock availability and season
Incoterms	FOB Karachi CIF (destination port) CFR Other terms available on request
Sample Availability	Free samples (up to 500g) for qualified buyers Larger samples at cost + shipping

CONTACT KOHENOOR INTERNATIONAL

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