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## TWO NEW SPECIES OF POACEAE FROM INDIA

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## ABSTRACT

Two new species of Poaceae namely, *Eragrostis santapau* K. G. Bhat & C. R. Nagendran and *Chrysopogon pseitdozeylanicus* K. G. Bhat & C. R. Nagendran have been described from materials collected by the senior author from Coorg- and South Kanara Districts of Karnataka State, India.

## ABSTRAK

Dua jenis baru Poaceae, *Eragrostis santapau* K. G. Bhat & C. R. Nagendran dan *Chrysopogon pseudozeylanicus* K. G. Bhat & C. R. Nagendran dipet'ulkan berdasarkan koleksi dari daerah Coorg dan Kanara Selatan (negara bagian Karnataka, India).

*Eragrostis santapau* K. G. Bhat & C. R. Nagendran *sp. nov.* — Fig. 1.

Affinis *E. poaeoides* P. Beauv. et *E. cilianensis* (All.) Vignolo-Lutati, sed distinguitur barbatis panieulis ramorum axillis, laevibus foliarum marginibus et in pedicellis absentia crateriformium glandium.

Allied to *E. poaeoides* P. Beauv. and *E. cilianensis* (All.) Vignolo-Lutati, but differs in having bearded panicle branch axils, smooth leaf margins and the absence of crateriform glands in the pedicels.

A tufted annual. Culms 6—20 cm high, slender; nodes glabrous. Leaves up to 9 cm long and 3 mm wide, linear, acute, margins non-glandular, upper surface pilose, lower glabrous; sheaths glabrous, bearded at mouth; ligule a pubescent ridge. Panicle up to 20 cm long, open; peduncle glabrous except at branch axils; branches alternate, spreading, bearded in axils, up to 3 cm long. Spikelets 5—10 mm long and 2—2.8 mm wide, ovate-oblong, up to 20-flowered, pale green or olive-grey, sometimes tinged with pink; rachilla persistent; pedicels non-glandular, shorter than spikelets except the terminal ones, the latter up to 10 mm long. Glumes 2, 1-nerved, ovate, acute; lower 1.2—1.7 mm long; upper 1.6—1.8 mm long. Lemmas ca 2 mm long, ovate acute, 3-nerved, lateral nerves prominent. Paleas persistent, obovate-oblong, shorter than lemmas, keels scabrid. Stamens 3; anthers ca 0.3 mm long. Lodicules 2, minute, cuneate. Grains 0.6—0.8 mm long, globose or oblong, dorsally slightly flattened.

**INDIA.** Karnataka State, Coorg District: **Mercaru**, growing in moist soil. 18 December 1980, *K.G. Bhat 794, A* (holotype in GAL), 794 (isotype in K) and *K.G. Bhat 1003* (paratype in Mysore University Herbarium).

**Chrysopogon pseidozeyianicus** K. G. Bhat & C. R. Nagendran, *up. HOC.*  
- Fig. 2.

Affinis *C. zeylanicus* Nees ex Steud., sed distinguitur autem brevioribus pedicellatis spiculis paniculisque, et basalibus vaginis basi serieis.

Allied to *C. zeylanicus* Nees ex Steud., but differs in having shorter pedicelled spikelets and panicles, and basal sheaths silky at base.

A perennial grass. Culms ca 90 cm high, tufted, erect, smooth; nodes glabrous. Leaves chiefly basal, up to 50 long and 5 mm wide, upper leaves shorter, linear-acute, glabrous, margins minutely spinulose, midrib below scaberulous; sheaths keeled, basal ones silky at base, upper glabrous; ligule of short hairs. Panicle ca 10 cm long, contracted; peduncle glabrous except at nodes; nodes shortly pubescent; branches capillary, in 3—4 whorls, unequal, lowest up to 3.5 cm long upper shorter, smooth, tip oblique, bearing one sessile and two pedicelled spikelets. Sessile spikelets ca 5 mm long, laterally compressed; callus ca 1 mm long, bearded with brown hairs. Glumes 2, coriaceous, subequal, ca 5 mm long; lower one linear-oblong, 4-nerved, nerves obscure, tip spinulose near apex; upper lanceolate, shortly pubescent, 3-nerved, keeled, keel shortly ciliate, margins ciliate, tip 2-lobed with an awn up to 5 mm long. Lower lemma empty, oblong, subacute, 2.5—3 mm long, 2-nerved, hyaline, ciliate, epaleate. Upper lemma enclosing a bisexual floret, linear, 3—3.5 mm long, hyaline, shortly 2-lobed with a geniculate awn, paleate; awn up to 2.5 cm long, column ca 1 cm long, twisted, white hairy; palea ca 1.5 mm long, linear-oblong, hyaline. Lodicules 2, ca 0.5 mm long. Stamens 3; anthers ca 2 mm long. Grains not seen. Pedicelled spikelets male, 4—5 mm long, ovate-lanceolate, acuminate; pedicels 3.5—4 mm long, sides densely ciliate. Glumes 2, membranous; lower 4—5 mm long, ovate-lanceolate, acuminate, 5-nerved, lateral nerves submarginal, minutely ciliate; upper ca 4 mm long, lanceolate, acute, 3-nerved, margins ciliate. Lower lemma 2.5—3 mm long, oblong-lanceolate, hyaline, nerveless or 2-nerved, margins ciliate. Upper lemma similar but smaller, 3-nerved, margins ciliate, enclosing a male floret.

**INDIA.** Karnataka State, South Kanara District: Charmadi ghat, about 15 Km from Kotigehar on the way to Dhacmsthala, 24 November 1977, *K.G. filial 550 A* (holotype at CAL) and *550* (isotype at K).

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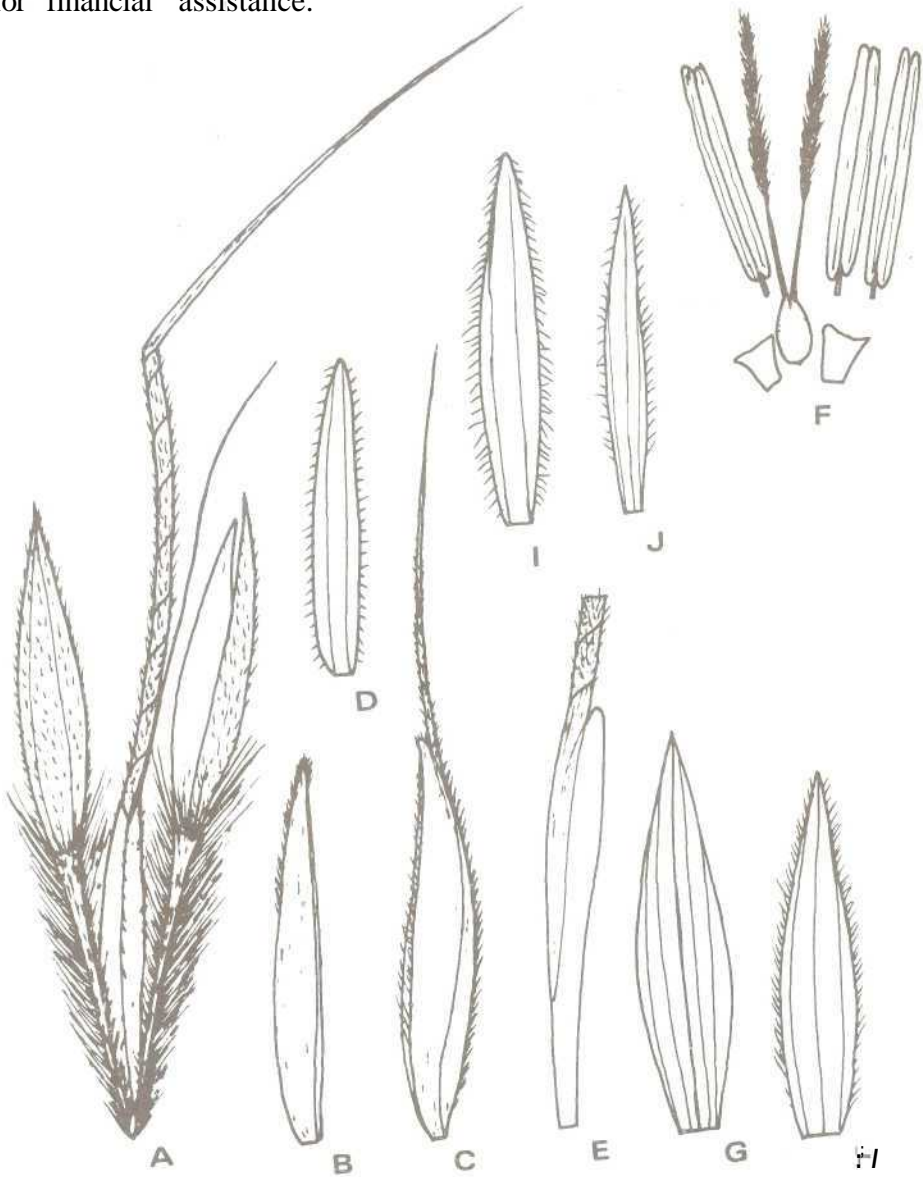


Fig. 1. *Eragrostis sanmpau* K. G. Bhat & C. R. Nagendran. — A. Habit B. Spikelet C. Lower glume D. Upper glume E. Lemma F. Palea G. Grain.



Fig. 2. *Chrysopogon pseudozeylanicus* K. G. Bhat & C. R. Nagendran. — A. Spike B. Lower glume. C. Upper glume D. Lower lemma. E. Upper lemma. F. Flower. G. Lower glume. H. Upper glume. I. Lower lemma. J. Upper lemma (Figs. B—F of sessile spikelet, G—J of pedicelled spikelet).



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