

STUDIES IN LEGUMINOSAE—6: *GUeldenstaedtia santapau* THOTH.—A RARE AND INTERESTING NEW SPECIES OF LEGUMINOSAE FROM BHUTAN

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ABSTRACT

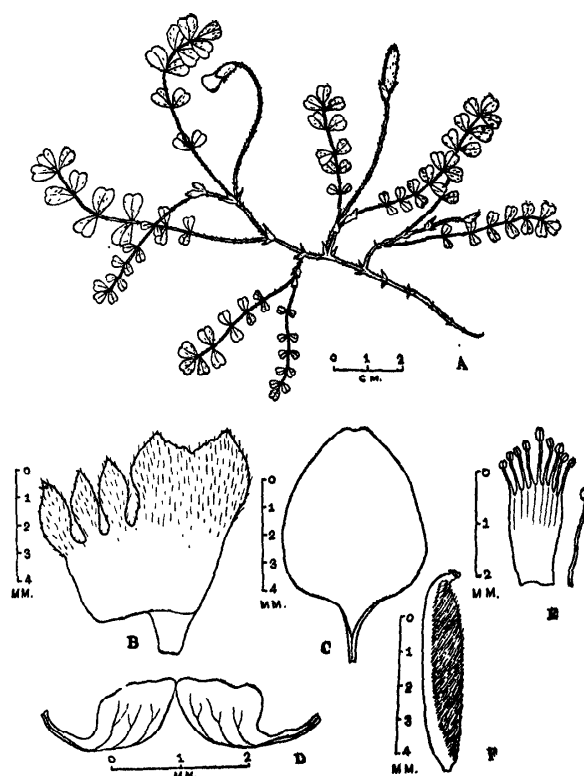
Gueldenstaedtia santapau Thoth. a new species of Leguminosae, collected from the Bhutan Himalayas is described.

***Gueldenstaedtia santapau* Thoth. sp. nov.**

Affinis *G. himalaicae* Baker, a qua tamen differt glabrescentia caulis, paginae superioris foliolorum et stipularum, inflorescentia uniflora, calycis dentibus vel aequantibus vel superantibus tubum, dentibus labii superioris calycis connatis.

Herba gracilis, valde ramosa, prostrata; *caulis* elongatus, quadrangularis, roseus, alternatim ramosus; spatia internodalia 7-10 mm longa, glabra. *Folia* imparipinnata, alterna, stipulata, 4.5-6.5 cm longa; foliola 11-13 numero, obcordata, 3-6 × 2.5-5.0 mm, infimabina semper superioribus minora, integra, cuneata ad basin, emarginata ad apicem, glabra supra, parce pilosa infra, capillis luteolobrunneis; stipulae ex ovatis cordatae, 3-5 mm longae, oppositifoliae, amplexicaules, a dimidium unitae; rachis glabra; petioluli 0.5 mm longi. *Inflorescentia* uniflora, pedunculo 5-6 cm longo, piloso; bractea parva, lineari, pilosa; pedicello 2-3 mm longo, piloso. *Calyx* 6 mm longus, griseo-pubescentis extus, bilabiatus, dentibus binis labii superioris 4 mm longis, connatis, labio superiore alte emarginato ad apicem, dentibus tribus labii inferioris linearibus, distinctis, 3 mm longis; calycis tubo pubescente extus, dentibus extus plane, intus vero parce pubescentibus. *Corollae* vexillum ovatum, 9 × 4 mm, breviter unguiculatum, retusum ad apicem; alae 7 × 2-3 mm, unguiculatae; carinae multo minores vexillo et alis, 3.5 × 1.0-1.5 mm, connatae supra, unguiculatae. *Stamina* diadelphica, 9+1, columna staminali 3 mm longa, filamentis liberis in quadrante superiore. *Ovarium* 6 mm longum, dense pubescens, stylo brevissimo, ad angulum rectum curvato cum ovario, stigmatibus capitato. *Legumen* lineare-oblongum, brunneum, dehiscens, minute pubescens vel glabrescens.

Typus: Chi-la-Pass, Paro, 4200 m 20 augusti 1963—Balakrishnan & Sen Gupta 619 (CAL).



Gueldenstaedtia santapau Thoth. sp. nov.

Figs. A-F : A. Entire plant. B. Calyx-cup split open. C. Standard petal. D. Keel petals. E. Staminal column. F. Pistil.

***Gueldenstaedtia santapau* Thoth. sp. nov.**

Gueldenstaedtia santapau Thoth. is related to *G. himalaica* Baker but can easily be distinguished by the stem, upper surface of leaflets and stipules all being glabrous, inflorescence being one flowered and calyx-teeth either equal or longer than the tube as well the teeth of the upper lip of the calyx being connate.

A slender, much branched, prostrate herb; *stem* elongate, quadrangular, pinkish, alternately bran-

ched; internodes 7-10 mm long, glabrous. *Leaf* imparipinnate, alternate, stipulate, 4.5-6.5 cm long; leaflets 11-13, obcordate, $3.6 \times 2.5-5$ mm, lower most pair always smaller than upper, entire, cuneate at base, emarginate at apex, glabrous above, sparingly pilose below, hairs yellowish brown; stipule ovate to cordate, 3-5 mm long, leaf-opposed, amplexicaul, the two united half the length; rachis glabrous; petiolule 0.5 mm long. *Inflorescence* one flowered, peduncle 5-6 cm long, pilose; bract small, linear, pilose; pedicel of the flower 2-3 mm long, pilose. *Calyx* 6 mm long, grey pubescent externally, bilipped, 2 teeth of the upper lip 4 mm long, connate, upper lip deeply emarginate at apex, 3 teeth of the lower lip linear, distinct, 3 mm long, calyx-tube and teeth pubescent outside and sparingly pubescent inside on the teeth except the tube. *Corolla* vexillum ovate, 9×4 mm, shortly clawed, retuse at apex; wings $7 \times 2-3$ mm, clawed; keels much smaller than

vexillum and wing, $3.5 \times 1-1.5$ mm, connate above, clawed. *Stamens* diadelphous, $9+1$, staminal column 3 mm long, filaments free in their upper fourth. *Ovary* 6 mm long, densely pubescent, style very short, bent at right angles to the axis of the ovary, stigma capitate. *Legume* linear-oblong, brown, dehiscent, minutely pubescent to glabrescent.

Type: Chi-la-Pass, Paro, 4200 m, 20. 8. 1963—*Balakrishnan & Sengupta* 619 (CAL).

This species is dedicated to Rev. Father Dr. H. Santapau, F.N.I., ex-Director, Botanical Survey of India for his outstanding contributions in the field of Taxonomy and Systematic Botany in India.

ACKNOWLEDGEMENTS

The author expresses his sincere gratitude and thanks to Dr. H. Santapau for kindly rendering the Latin translation of the new taxon and to Dr. S. K. Mukerjee for encouragement.