

A NEW SPECIES OF *BUPLEURUM* LINN. (UMBELLIFERAE) FROM
ANDHRA PRADESH, INDIA

Bupleurum andricum Nayar et Ban. sp. nov.
Species *B. plantaginifolia* Wt. valde affinis, sed foliis lanceolatis vel ellipticis, involuci et involucelli phyllis minoribus, fructibus minoribus, valleculis 3-4 vittatis, commissuris 4-5 vittatis differt.

Herba. Caulis teres, erectus, striatus, medullosus, ramosus vel repetitive pseudo-dechotomo-furcatus; rami erecti glabri. *Folia inferiora* alterna, simplicia, oblongo-lanceolata vel elliptica 7-17 cm × 1.3-2.5 cm, ad basim attenuata, margine integra ad apicem sensim mucronata, membranacea; nervis lateralibus 3-5 jugis, in utraque pagina leviter conspicuis; basi in petiolum alatum, vaginiformiter amplexicaulem attenuata. *Folia superiora* alterna, sessilia, elliptica vel elliptico-lanceolata, 1.5-4 cm × 0.5-0.9 cm ad apicem mucronata margine integra, membranacea, supra viridia, infra pallida; nervis lateralibus 2-jugis, supra subconspicuis, infra prominentibus. *Inflorescentiae* axillares vel terminales; *Pedunculi* 0.6-2.5 cm longi, glabri. *Umbellae* 3-8 radiatae; radiis inaequalibus, tenuibus, 1.5-3 cm longis. *Involuci phylla* 3-4, inaequialia, elliptica vel obovata, 0.5-1.5 cm longa, apice obtusa et mucronata, glabra, venis lateralibus 2-3 jugis. *Involucelli phylla* 5, subaequalia, obovata, 2-6 mm longa, ad basim angusta, ad apicem obtusa et mucronata, glabra, venis lateralibus 1-2 jugis. *Pedicelli* 1-3 mm longi, glabri. *Calycis dentes* 5, subconspicui, brevissimi. *Petala* 5 obovata vel suborbicularia, ± 0.5 mm longa, concava, margine integra, pallide flava. *Stamina* 5; filamentis 0.5 mm longis; antherae ± 0.2 mm longis. *Stylopodium* subplanum, carnosum. *Styli* breves, 0.4 mm longi, divaricati, stigmata inconspicua. *Fructus* oblongus, 3-3.5 mm longus; vittae vallculariae 3-4, commissurales 4-5.

Holotypus: Lectus in loco Palakonda in dist. Godavari, in provincia Andhrica, die 1.10.1920, a V. Narayanaswami at positus in CAL subnumero 370A.

Bupleurum andricum M. P. Nayar et R. N. Ban. sp. nov.

Herb. Stem terete, erect, striate, medullose, branched or repeatedly pseudodichotomously branched; branches erect, glabrous. *Lower leaves* alternate, simple, oblong-lanceolate, elliptic, 7-17 cm × 1.3-2.5 cm, attenuate at the base, margin entire, apex gradually mucronate, membranaceous; lateral

nerves 3-5 on either side of the midrib, slightly prominent on both surfaces; petioles alate, vaginiform, amplexicaul. Upper leaves alternate, sessile, elliptic to elliptic-lanceolate, 1.5-4 cm × 0.5-0.9 cm, mucronate at the apex, entire at margin, membranaceous, upper surface green, lower surface pallid, lateral nerves 2 on either side of the midrib, subconspicuous on the upper surface and prominent on the lower surface. *Inflorescence* terminal and axillary; peduncle 0.6-2.5 cm long, glabrous. *Umbels* 3-8 rayed, rays unequal, slender, 1.5-3 cm long. *Involucral leaves* 3-4, unequal, elliptic to obovate, 0.5-1.5 cm long, apex obtuse to mucronate, glabrous, lateral veins 2-3 pairs. *Involucell leaves* subequal, obovate, 2-6 mm long, narrowed at the base, apex obtuse to mucronate, glabrous, lateral veins 1-2 pairs. Pedicel 1-3 mm long, glabrous, calyx teeth 5, subconspicuous, very short. *Petals* 5, obovate or suborbicular, ± 0.5 mm long, concave, margin entire, pale yellowish. *Stamens* 5, filament 0.5 mm long; anthers ± 0.2 mm long. *Stylopodium* subflat, fleshy. *Style* short, 0.4 mm long, divaricate, stigma inconspicuous. *Fruit* oblong, 3-3.5 mm long, vallcular vittae 3-4, commissural vittae 4-5.

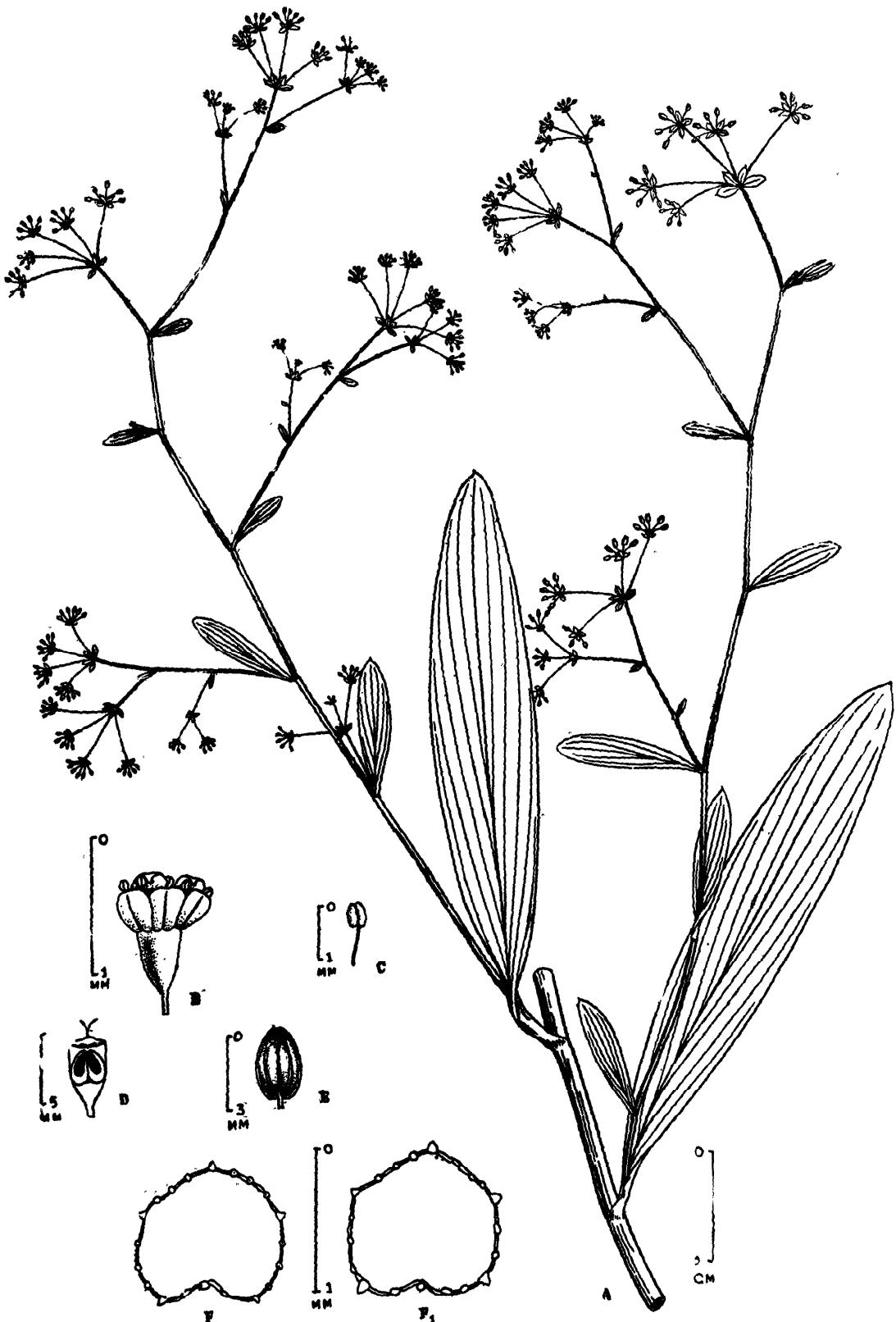
Distribution: INDIA: Andhra Pradesh: Palakonda, Godavari District, 762 m, Oct. 1920—V. Narayanaswami 370 A (CAL); *ibid.*—V. Narayanaswami 370B & C (CAL); Devagiri, Parlakimedi, Northern Circars, Dec. 1902—E. Candler & I. H. Burkhill 17965 (ISIM); near Sunkarimetta, Visakhapatnam, 1150 m, Aug. 1960—N. P. Balakrishnan 109 A-D (CAL); *ibid.*, 1300 m, Sept. 1961—N. P. Balakrishnan 744 (CAL).

This interesting species is allied to *B. plantaginifolia* Wt. but differs in having lanceolate or elliptic leaves, smaller involucral and involucell leaves, smaller fruits with less prominent ridges, 3-4 vitta in vallcular cavity and 4-5 vitta in commissural surface; whereas *B. plantaginifolia* has spathulate leaves with abruptly ending mucronate apex, longer involucral and involucell leaves, large fruit with prominent ridges, 1 vitta in vallcular cavity and 2 vitta in commissural surface.

N.B. ISIM=Industrial Section, Indian Museum, Calcutta.

M. P. NAYAR AND R. N. BANERJEE

Botanical Survey of India, Howrah

*Bupleurum andhricum* Nayar et Ban.

A. Branch. B. Flower. C. Stamen. D. T. S. of the ovary. E. Fruit. F-F₁. T. S. of a mericarp.