## UROCHLOA MOSAMBICENSIS (HACK.) DANDY (POACEAE) IN INDIA

. Urochloa mosambicensis (Hack.) Dandy is known in India as an introduced grass; it has been grown in Tamil Nadu Agricultural University on an experimental basis for fodder\*. A scrutiny of literature shows that so far this grass has not been reported from India in naturalized condition. (1960), while treating this species, cited two specimens from Burma and stated that 'this grass has the extra-ordinary distribution of East Africa and Burma. The authors, while working on grasses at Central National Herbarium found one collection of Urochloa mosambicensis (Hack.) Dandy from Rajasthan, which was lying under Echinochloa crus-galli var. breviseta (Doell.) Neilr. This is the first report of Urochloa mosambicensis (Hack.) Dandy growing wild in India. This report connects the link of distribution from Burma to Africa. An illustrated account of the species is provided here.

Urochloa mosambicensis (Hack.) Dandy in J. Bot. 69: 54. 1931; Bor, Grass. Bur. Ceyl. Ind. Pak. 372. 1960; Chippindall in Meredith Grasses & Pastures of S. Africa 382. 1955 (Repr. 1959). Panicum mosambicense Hack. in Bolet. Soc. Brot. 6: 140. 1888. P. notabile Hook. f. Fl. Brit. Ind. 7: 32. 1897. Echinochloa notabile (Hook. f.) Rhind, Grass. Burma, 50. 1945. (Figs. A-I). Perennial, ca 75(-120) cm tall, ascending. Culms often creeping at base and rooting at lower nodes, slender, subterete, striate, glabrous or sparsely hirsute; nodes pubescent. Leaf-sheaths loose, subterete, striate, glabrous or hirsute with tubercle-based hairs, margins ciliate; ligule a fringe of hairs 1.0-1.5 mm long, blades 5-10 (-15) cm long, 0.7-1.0 (-1.5) cm broad, lanceolate, acute, rounded at base, glabrous or hirsute

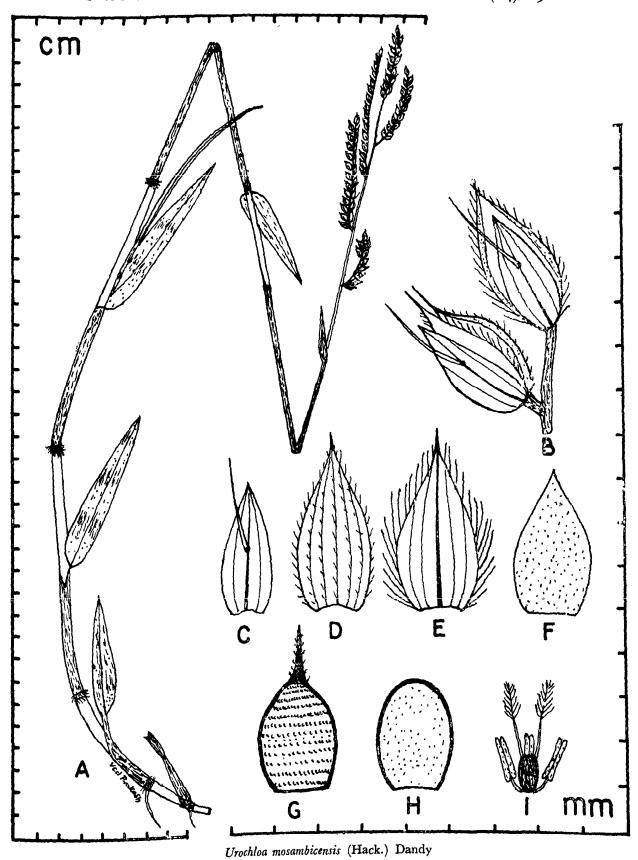
on one or both surfaces with tubercle-based hairs. Inflorescence up to 15 cm long of 6-12 racemes 2-6 cm long longer than the internodes; rachis 3-angled or flattened. Spikelets 3-5 mm long, ovate, acuminate or shortly awned, glabrous or hairy, solitary or in pairs of unequal pedicels; one pedicel of each pair frequently almost suppressed. Glumes 2, unequal; lower glume 2.5-4 mm long or sometimes as long as spikelet, ovatelanceolate, obtuse, 3-nerved, usually with 1-3 stiff, tubercle-based hairs on the middle nerve in the upper half of the back, the hairs extending beyond the apex of the spikelet; upper glume as long as spikelet, ovate, acuminate, 5-nerved, with fringe of hairs near one or both margins. Florets 2; lower floret male; lower lemma, almost similar to upper glume, 5-nerved, with fringe of long, white hairs on both margins; lower palea almost similar to lower lemma in shape and texture, but slightly shorter and smooth; stamens 3; anthers 1.5-2.0 mm long; upper floret hermaphrodite; upper lemma 2.0-2.5 mm long, broadly elliptic, rounded at the apex, concave, indurate, conspicuously ridged on the back, tipped with short rigid awn, ± 0.5 mm long, that does not extend beyond the apex of the spikelet; upper palea almost similar to upper lemma in shape, size and texture, enclosing bisexual flower; anthers + 1 mm long; ovary 0.5-0.8 mm long, ovoid; styles 2, 0.8-1.0 mm long; stigmas 1-2 mm long, plumose.

Ecology: In open grassland, usually in sandy soil near water.

Distribution: India: Rajasthan; Burma, Africa.

Notes: Urochloa mosambicensis (Hack.) Dandy is the most distinctive species in the genus and can be readily distinguished from the other species by its characteristic lower

<sup>\*</sup>Specimens (K. Subramanyam 3518) are available in GAL and MH.



Figs. A-I: A. Habit. B. Pair of spikelets. C. Lower glume. D. Upper glume. E. Lower lemma. F. Lower palea. G. Upper lemma. H. Upper palea. I. Flower. (Sharma 717)

glume, which has 1 or 1-3, stiff, tuberclebased, hairs ca 1.5-2.0 mm long on the middle nerve in the centre of the back. Habit & Leaf blades are very variable in this species. (Chippindal, l.c.).

Specimens examined: India: Rajasthan-Jaipur Dist., Ramgarh, Aug. 10, 1964, S. Sharma 717 (CAL). Duplicate specimen in Dept. of Botany, University of Rajasthan, Jaipur.

## ACKNOWLEDGEMENTS

Jain, Director, Botanical Survey of India for

the guidance and to Dr. N. C. Nair, Joint Director, Botanical Survey of India for some information on the plants of this grass growing at Coimbatore.

> VED PRAKASH Central Drug Research Institute, Lucknow AND

> > B. P. UNIYAL

Botanical Survey of India, Howrah

## REFERENCE

The authors are thankful to Dr. S.-K. Bor, N. L. The grasses of Burma, Ceylon, India and Pakistan. Pergamon Press, London. 1960. (Reprint 1973).

## ADDITIONS TO THE ORCHIDACE AE OF ANDAMAN AND NICOBAR **ISLANDS**

Two orchid genera Appendicula and Diploprora were identified from the collections of the Andaman and Nicobar Islands. Both these genera were not reported from these islands so far and hence this note. Appendicula reflexa Bl. is also a new record for the flora of India.

1. Appendicula reflexa Blume, Bijdr. 301. 1825; Holttum, Rev. Fl. Malaya 1: 507, f. 145. 1953; Backer & Bakh. f. Fl. Java 3: 316. 1968; Koyama in Fl. Taiwan 5: 880. pl. 1547. 1978. A. cordata Hook. f. Fl. Brit. Ind. 6: 83. 1890 et Ic. Pl. 2148. 1893.

Pendulous epiphytes. Stems several, crowded, simple, terete, covered by closely packed leaf sheaths, 10-30 cm long; internodes up to 1 cm long. Leaves jointed to sheath, present all along the stem in vegetative state and fall off from lower parts during flowering, distichous, elliptic-oblong, twisted and amplexicaul at base; midrib prominent; apex shallowly bilobed, minutely apiculate in sinus, 2.0-2.5 cm long, 0.8-1 cm wide; sheaths tubular, striate, articulate to the lamina. Racemes axillary, solitary, much shorter than the leaves, up to 0.9 cm long; scape thick with a few tubular sheaths at base, bearing 6-8 flowers, ca 0.5 cm long. Bracts ovate-lanceolate, acuminate, ca 3 mm long, ca 1.5 mm broad at base. Flower's light green, ca 6 mm long, ca 2.5 mm wide. Dorsal sepal ovate, acute, 1-nerved, ca 2.5 mm long. Lateral sepals triangular-falcate; base adnate to the column foot and jointed to form a mentum of ca 1.5 mm long, 1nerved, ca 2 mm long, ca 2 mm broad at base. Petals oblong, obtuse at apex, 1-nerved, ca 2.0 mm long, less than 1 mm broad. Lip erect, attached to the apex of column foot by claw, with an appendage inside on the claw, the upper half deflexed, obovate, subentire; apex rounded with a cusp, ca 2.5 mm long; basal appendage triangular-ovate, obtuse at free end, flat, fleshy, parallel to the Column short, with a triangular ca 1.5 mm long column foot. Anthers ovate, Pollinia 6, spathulate-clavate, in