

## LENTIBULARIACEAE

***Utricularia janarthanamii*** S.R. Yadav, Sardesai & S.P. Gaikwad

**Description:** Herbs; rhizoids up to 2 cm long, glandular, branched; stolons up to 10 cm long, profusely branched. Leaves 0.5-2 cm long, 1-5 mm wide, spatulate, rounded at apex, scattered along stolons, 3-nerved, nerves branched. Traps on leaves large (1-2 mm across) and elsewhere small (0.6-1 mm across),



***Utricularia janarthanamii*** S.R. Yadav & al.

Photo Courtesy: S.R. Yadav

subglobose; stalk upto 1 mm long; mouth basal with two simple, subulate, glandular appendages; glands on appendages stalked and elsewhere sessile. Flowers in racemes on peduncle and solitary on leaves and stolons; peduncles up to 10 cm long, angular, grooved on one side, glabrous; scales basifixed, 1.5-1.8 x 0.5-0.7 mm, 1-nerved, acute at apex. Flowers bracteate, bracts basifixed, 1.4-1.5 x 0.6-0.8 mm, 1-nerved, acute at apex; bracteoles absent; pedicels 0.4-0.8 cm long,

erect at anthesis and recurved in fruit. Calyx lobes unequal; upper lobe 1.8-2 x 1-1.2 mm (1.9-2.2 x 1.2-1.4 mm in fruit), ovate, acute or minutely dentate at apex; lower lobe 2-2.2 x 1.2-1.3 mm (2.5-2.7 x 1.2-1.4 mm in fruit), ovate-elliptic, obtuse or minutely dentate at apex. Corolla blue to pink; upper lip 3.2-3.3 x 1-1.1 mm, linear-oblong, crested at centre, rounded or notched at apex; lower lip 3-3.2 x 3.8-4.2 mm, obovate, hairy in throat, bigibbous at base, rounded at apex; spur 2-5 mm long; conical, descending, acute or 2-3 dentate at apex. Stamens 2, 1-1.2 mm long; filaments strap-shaped, slightly curved. Pistil 0.9-1.1 mm long, dorsally compressed; style short, distinct, flat; stigma 2-lipped, truncate at apex. Flowers on stolons and leaves: those on stolons minutely pedunculate; peduncle up to 2 mm long, those on leaves sessile; scales basifixed, 0.15-0.2 mm long, 1-nerved, acute at apex; bracts basifixed, 0.25-0.3 mm long, 1-nerved, acute at apex; bracteoles absent. Calyx lobes unequal; upper lobe 0.55-0.6 x 0.4-0.5 mm (0.8-0.9 x 0.6-0.7 mm in fruit), broadly ovate, acute or minutely dentate at apex; lower lobe 0.6-0.7 x 0.4-0.45 mm (0.9-1.1 x 0.5-0.6 mm in fruit), ovate-elliptic, obtuse or minutely dentate at apex. Corolla hyaline, cleistogamous; upper lip shortly 2-lobed, overlapping lower lip; lower lip shallowly lobed; spur almost absent. Stamens 2, 0.45-0.5 mm long; filaments strap-shaped, slightly curved at apex. Pistil 0.35-0.4 mm long, dorsally compressed; style short, distinct, flat; stigma 2-lipped, truncate at apex. Capsules 1.8-2 x 1.2-1.3 mm (those on leaves and stolons 1.25-1.5 x 0.75-0.8 mm), obliquely ovoid, wall uniformly membranous. Seeds numerous (from the capsules those on leaves and stolons 2-10), subglobose, 0.5 mm across; testa cells more or less isodiametric.

**Fl. & Fr.:** July - December.

**Habitat:** It grows at an altitude of about 500-600 m on wet ground around lakes, tanks and marshy rice fields and wet grass lands. Flowering is common but fruit setting is very rare. The chasmogamic flowers are produced on scape while subterranean cleistogamous flowers are produced on leaves and in the axil of

leaf on stolon. *Dopatrium junceum* (Roxb.) Buch.-Ham. ex Benth., *Eriocaulon nepalense* Prescott ex Bong., *Mnesithea granularis* (L.) Koen. & Sosef. are the common associates.

**Distribution:** India - Girgaon, Kagal, Katyayani and Kolhapur in Kolhapur district, and Saikade in Satara district of Maharashtra.

**Etymology:** This species is named after Dr. M.K. Janarthanam, Goa University, Goa, who has made valuable contribution to Indian bladderworts.

**Note:** Closely allied to *U. uliginosa* Vahl but differs in the absence of bracteoles, bigibbous corolla and recurved fruiting pedicel, globose seeds and terminal hilum.

**Reference:** S.R. Yadav, M.M. Sardesai & S.P. Gaikwad. 2000. Two new species of *Utricularia* L. (Lentibulariaceae) from Peninsular India. *Rheedea* 10(2): 107-112.