GOODYERA SCHLECHTENDALIANA RCHB. F. (ORCHIDACEAE) – A NEW ANGIOSPERMIC RECORD FOR BANGLADESH

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Abstract

Goodyera schlechtendaliana Rchb. f. of family Orchidaceae is illustrated and reported here as a new angiospermic record from Bangladesh.

Goodyera R. Br. comprises of about 40 species widely distributed in the northern temperate zone, south to Mexico and east to Madagascar, SE Asia, the Pacific Islands, New Guinea and Australia (Pearce and Cribb 2002). Some of the representatives of this genus possess beautifully marked foliage for which they are very popular amongst the orchid growers. Bose et al. (1999) reported 17 species of the genus from India but only one species was reported from South India (Abraham and Vatsala 1981). On the other hand, two species of the genus Goodyera was reported from Sri Lanka by Malik et al. (2003) and 14 species from Bhutan by Pearce and Cribb (2002). G. procera (Ker Gawler) Hook. was previously recorded from Bangladesh by Prain (1903) and later on reported by Heinig (1925), Ahmed (1991), Huda et al. (1999), Huda (2000), Hoque (2003) and Khanam et al. (2001). Goodyera schlechtendaliana Rchb. f. has been reported here for the first time from Bangladesh. Inflorescence of G. schlechtendaliana is erect, loosely arranged many flowered and sepals are yellowish in colour, on the other hand, inflorescence of G. procera (Ker Gawler) Hook. is densely flowered and sepals are uniformly white.

Goodyera is closely related to the genera Anoectochilus and Dossinia. They are included in the ‘jewel orchid’ group for their delightful variegated foliage. Plants bear fibrous roots with creeping stem below. Leaves are petioled and often coloured. Inflorescence are erect, bear few to many flowers. Flowers are easily identified by the hairs inside the lip and the large stigma in front of column. Sepals are subequal, dorsal, erect, concave forming a hood with a narrow petal. Lip is inferior, hollow or saccate, with bristly hairs inside, sessile on the base of the column. Column is usually short, no foot but copular top. Pollinia 2, often deeply cleft, granulose, pyriform or clavate (Bose et al. 1999).


Plant terrestrial, 10-25 cm tall. Stems 9-21 cm tall enclosed in loosely sheathing petioles. Leaves 2-5, clustered towards base, ovate-lanceolate to elliptic-acute, petiolate, green with white mottling or spots, reticulate, 2.4 × 1.5-2.5 cm; petiole sheathing at base, ca 2.5 cm long. Inflorescence many-flowered, densely glandular pubescent to tomentose; rachis 5-11 cm long; floral bracts
lanceolate, acute, exceeding the ovary, ca 0.9 cm long. Flowers broadly ovoid, up to 1 cm long; sepals yellowish-pink, petals white, lip white tipped with green; pedicel and ovary glandular, pubescent, twisted 0.5-1.0 cm long. Dorsal sepal broadly lanceolate, dorsally pubescent, 0.9-1.1 × 0.25-0.35 cm; lateral ones obliquely ovate, pubescent, 1.1-1.2 × 0.35-0.45 cm. Petals obovate-lanceolate, appressed to the dorsal sepal, 1.0-1.1 × 0.3-0.4 cm. Lip long-ovate, 0.9-1.1 × 0.4 cm; base spatulate, saccate, pilose within. Column curved, 5-6 mm long.

Fig. 1. *Goodyera schlechtendaliana* Rehb. f.: a. Habit sketch (1×), b. Inflorescence (1×), c. Flower (2.5×), d. Sepals and petals with lip (2×), e. Pollinia (50×), f. Column (front and top views) (25×)
Flowering time: August–September.

Ecology: On the moss banks and shady moist places near streams or canals.

Geographical distribution: India, Bhutan, Thailand, China, South-east Asia, Japan and Sumatra. In Bangladesh, the species was collected from Barachara, Cox’s Bazar district.

Specimen examined: Cox’s Bazar, Barachara; M. M. Hoque and M. K. Huda, 08. 02. 2002, Huda 193 (HCU).

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