

**TWO NEW SONERILA (MELASTOMATACEAE)  
FROM BORNEO**

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*Central National Herbarium, Botanic Garden, Howrah-3, Calcutta****Sonerila rufidula* Nayar, sp. nov.**

Affinis *S. tenuifoliae* Bl., sed forma foliorum, petiolis minoribus, floribus solitaribus differt.

Herba erecta ca 25 cm alta (teste collectore). Caulis quadrangularis, ad nodos incrassatus, glaber, rubescens, parce setosus. Folia subaequalia, anguste oblonga vel elliptico-oblonga, 10—18 mm × 2.5—3.5 mm, basi cuneata, apice acuminata, margine valde serrata, glabra, in siccо rubescens, 3-nervia, nervis principalibus subtus distinctis, venulis transversis absentibus, chartacea; petiolus 1.5—3 mm longus. Flores solitari, pedicellus 7—8 mm longus, glaber, rubescens. Calyx tubus campanulatus, 5—6 mm longus, 1.5—2 mm latus, glaber, rubescens, dentibus triangularibus, 1—1.5 mm longis. Petala elliptico-ovata, 7.5—8.5 mm × 4—4.5 mm. Stamina 3, filamentis 3—3.5 mm longis, antheris 3 mm longis, ad basim sagittatis, connectivo inappendiculato. Stylus filiformis, 7—8 mm longus, glaber, rubescens, stigma capitato. Capsula trigona, 5—6 mm longa, glabra; pedicellus 10—12 mm longus.

**TYPUS:** Collenete 764 (K).

Herb, erect, about 25 cm tall. Stem quadrangular, thickened at the nodes, becoming reddish, glabrous or sparsely setose. Leaves subequal, narrowly oblong or elliptic-oblong, 10—18 mm × 2.5—3.5 mm, base cuneate, apex acuminate, margin very much serrate, glabrous, becoming reddish, 3-nerved, main nerve distinct on the undersurface, transverse veins absent, chartaceous; petiole 1.5—3 mm long. Flowers solitary, pedicel 7—8 mm long, glabrous, becoming reddish. Calyx tube campanulate, 5—6 mm long, 1.5—2 mm wide, glabrous, becoming reddish, calyx teeth triangular, 1—1.5 mm long. Petals 3, elliptic-ovate, 7.5—8.5 mm × 4—4.5 mm. Stamens 3, filament 3—3.5 mm long, anther 3 mm long, base sagittate, connective inappendiculate. Style filiform, 7—8 mm long, glabrous, becoming reddish, stigma capitate. Capsule trigonous, 5—6 mm long, glabrous; pedicel 10—12 mm long.

*Sonerila rufidula* is allied to *S. tenuifolia* Bl. but differs in the size of leaves and in the length of petiole and in having solitary flowers, whereas in *S. tenuifolia* the inflorescence is 3—8 flowered. This new

species is also allied to *S. crassiuscula* Stapf in the size of flowers, stamens and in the presence of reddish tinge on the stem and on the undersurface of the leaf. However, in *S. crassiuscula* the opposite leaves are three to four times unequal, the shape of leaf is elliptic or elliptic-ovate and the undersurface of leaf is strigose. While in *S. rufidula* the opposite leaves are sub-equal, the shape of leaf narrowly oblong or elliptic-oblong and the undersurface of leaf is mainly glabrous.

Because of the beautiful reddish-purple coloration of the stem, leaves and flowers, this new species is recommended as an ornamental plant. Since this plant grows at an altitude of 2700 m, it is suitable for growing as an ornamental plant in the hill stations of tropical countries. This can be cultivated as a small border plant or as bed plant.

BORNEO. Sabah : Mt. Kinabalu, Eastern shoulder, alt. 2766 m, 30 July 1961, Collenette 764 (K).

**Sonerila hirtiflora** Nayar, sp. nov.

Herba adscendens, ca 20 cm alta. Caulis teretiusculus, dense glanduloso-furfuraceus. Folia inaequalia, ovata, 4—5 cm × 2.5—3.8 cm basi truncata vel obliqua, apice subobtusa, margine breviter serrulata, supra puberula, subtus punctata, ad nervos dense glanduloso-furfuracea, inter nervos sparse glandulos-puberula, supra in sicco viridia, subtus in sicco pallide viridia, 7-nervia, venulis transversis haud conspicuis; petiolus 1—2.8 cm longus, dense glanduloso-furfuraceus. Inflorescentia axillaris, ad 3 cm longa, quam maxime gerens 5 flores, dense glanduloso-furfuracea; pedunculus 1—1.4 cm longus; pedicellus 4—5 mm longus. Calyxis tubus campanulatus, 6—6.5 mm longus, dense glanduloso-furfuraceus limbus 3-dentatus, dentibus triangularibus, 0.8—1 mm longis. Petala obovata, 7 mm × 5 mm, venulata. Stamina 3, filamentis 2 mm longis, antheris cordato-ovatis, 1.8 mm longis, connectivo inappendiculato. Stylus 5—6 mm longus, stigmate capitato.

TYPUS: Chew, Corner & Stainton 1332 (K).

Herb, ca 20 cm tall. Stem terete, densely glandulose furfuraceous. Leaves unequal, ovate, 4—5 cm × 2.5—3.8 cm, base truncate or oblique, apex sub-obtuse, margin minutely serrulate, uppersurface puberulous, undersurface punctate, on the nerves densely glandulose furfuraceous, in between the nerves sparsely glandulose puberulous, uppersurface when dry green, undersurface when dry pale green, 7-nerved, transverse venules not at all conspicuous; petiole 1—2.8 cm long, densely glandulose furfuraceous; peduncle 1—1.4 cm long; pedicel 4—5 mm long. Calyx tube campanulate, 6—6.5 mm long, densely glandulose furfuraceous, calyx limb 5-dentate, teeth triangular, 1—1.8 mm long. Petals obovate, 7 mm × 5 mm, venulate. Stamens 3, filament 2 mm long, anther cordato-ovate, 1.8 mm long, connective inappendiculate. Style 5—6 mm long, stigma capitate.

*Sonerila hirtiflora* Nayar is allied to *S. decipiens* Bakh. f. of Moluccas, but differs in its densely glandulose nature and larger calyx tube.

BORNEO. Sabah: Mt. Kinabalu, Minosuk Plateau, alt. 1838 m, 20 August 1961, Chew, Corner & Stainton 1332 (K).

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In October and August 1971, I spent five weeks on an expedition to Sumatra and Borneo under palm as the president of Jambi and West Sumatra. This central area of Sumatra was chosen because expeditions have already been made to South Sumatra in February 1971 and March 1972 and to North Sumatra and Aceh with the Kyoto University Expedition in August 1972, and therefore collections made in this central area would link up collections from the south and north and would reduce and considerably increase representation of the main flora of Sumatran Island. After advice from the Department of Nature Conservation of Jambi and from Dr. M. Jacobs in Kew, Borneo (Borneo) had been considered, it was decided to work westwards from Lebak Nature Reserve on the east coast near North Sumatra, to the Palei Marisan, the main range of Sumatra, to Gunung Kerinci Nature Reserve and G. Tapan near Sungai Pinoh and from there across the western part of the Bukit Barisan to Pekanbaru and Rukkingan. From Rukkingan it was planned to visit the Gunung Leuser Nature Reserve at Batang Palupuh, and then return to Sumatra by way of Sungai Loh and Ahens Tembus, where reportedly there still exists herds of Sumatran tigers. To some or less confirming our collecting activities in the originally suggested Palung it was hoped that within the time available a large area could be covered reasonably and a palm braided for another Sumatra trip. Two assistants from Kewa accompanied me to help in the difficult task of collecting palms. Dedi Turnam (Chairman Forestry) and Abdul Hafiz (Kebun Raya). These "assistants" were also given individual collecting assignments as part of a scheme for training assistants in field botany. Dedy was to collect Pteridophytes and flaxes to collect material for growing in the Kebun Raya. The late Siswoko, head of Nature Conservation in Jambi accompanied us throughout the expedition.

From Jambi the Kerinci Nature Reserve was reached by river-boat to Pekanbaru and by plane to Sungai Air Hitam via Tanjung Balai and the upriver area, this latter part of the journey was accom-