

and marginal nerves 2, transverse venules distinct; petiole 5-7 mm long, stellate-furfuraceous and hairy. Inflorescence terminal, paniculate, 3-7 cm long, main axis quadrangular, densely stellate-furfuraceous. Flowers 4-merous; bracteoles linear, 3-4 mm long; pedicell 5-7 mm long, puberulous. Calyx tube campanulate, 3-4 mm long, subtruncate, stellate-furfuraceous. Petals ovate-oblong, 5-6 mm long, 3-3.5 mm wide. Stamens 8, subequal, filament 3 mm long, anther clavate, 4 mm long, 1-porose, connective 0.5 mm long, dorsally ending in a triangular 1 mm long appendage and ventrally ending in two linear, 2-2.5 mm long, appendages. Ovary adnate to the calyx tube by 8 septa, extra-ovarial chambers 8, all descending not beyond the middle of the ovary; style 3-7 mm long, glabrous, stigma not conspicuous. Berry ovoid.

Distribution: BORNEO: Sarawak, Penkulu Ampat, Sarawak river, Haviland b.q.c.c. (Holotype K); Matang, alt. 433 m, 27 Oct. 1929, J. & M. S. Clemens 20929 (K, BM); G. Mulu, Baram Dist., alt. 400 m, 4 July 1961, Anderson & Keng K. 7 (K, L); Rumah Temmpong, Beguh, Bawan Balin-

gian, alt. 10 m, 20 Oct. 1963, Paul Chai S. 19481 (K).

N. sarawakensis Nayar is allied to *N. beccariana* (Cogn.) Nayar, but differs in having hairy stem, smaller flowers, linear bracts and produced connective. Whereas in *N. beccariana* the stem is glabrescent, the flowers are larger, bracts ovate-oblong and the connective is not produced.

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ARISAEMA SETOSUM—A NEW SPECIES OF ARACEAE FROM SIANG DISTRICT, N.E.F.A.

Arisaema setosum A. S. Rao et D. M. Verma spec. nov.

Ab aliis speciebus differt pedunculo brevi emergente e rhizomate separatim nec petiolo coniuncto, et appendice fimbriata.

Dioicum. Rhizoma repens, ca 1 cm crassum. Foliū solitarium, pedatum; petiolus ca 33 cm longus, ca 4 mm crassus ad basin; petiolulus medius et petioluli communes parium lateralium foliolorum 6-15 mm longi; foliola 5, lanceolata vel oblanceolata, lateralia, paulum obliqua, inaequalia, 12-20 cm longa, 4-6 cm lata, caudato acuminata, marginibus paulum undulatis; nervi basales laterales submarginales, liberi, superiores anastomosates varie versus margines. Pedunculus emergens directe e rhizomate et a petiolo distinctus, vaginatus, 4.5-7 cm longus, 2-3 mm crassus, vaginae 3-4, membranaceae, acutae, exterior quidem ovata, media vero lanceolata, intima pedunculum aequans vel paulo superans. Spatha infra tubularis, 7-9 cm longa; tubo cylindrico, 3.2-3.5 cm longo, ca 1.5 cm lato; lamina ovato-lanceolata, 3.6-5.2 cm longa, ca 2 cm lata, basi auriculata, apice caudato, ca 5 mm longo; auriculis reniformibus, ca

10 mm longis, ca 5 mm latis. Spadix sessilis; pars florifera ca 2 cm longa; appendix brevior parre florifera, ca 2.5 mm ad basin crassa, coronata filamentis fimbriatis; filamenta plura, ca 3-5 cm longa, roseo-viridia. Flores masculi sparsi; stipes 1.5-2.5 mm longus; antherae 4-5, globosae, minutiae. Flores feminei contigui; ovarium ovoideum in stilum brevem attenuatum; stigmate capitato. (Fig. 1).

Holotypus R. S. Rao 17907A, ♂, Sirang ad Guizing, Siang dist., N.E.F.A., 20.11.1958, (CAL.). Paratype R. S. Rao 17907B, ♂, (ASSAM).

Arisaema setosum A. S. Rao & D. M. Verma spec. nov.

Differs from all other species of *Arisaema* in the short peduncle arising from the rhizome separately from the petiole and the tasseled appendage.

Dioecious. Rhizome creeping, ca 1 cm thick. Leaf solitary, pedate; petiole ca 33 cm long, ca 4 mm thick at base; median petiolule and common petiolules of lateral pairs of leaflets 6-15 mm

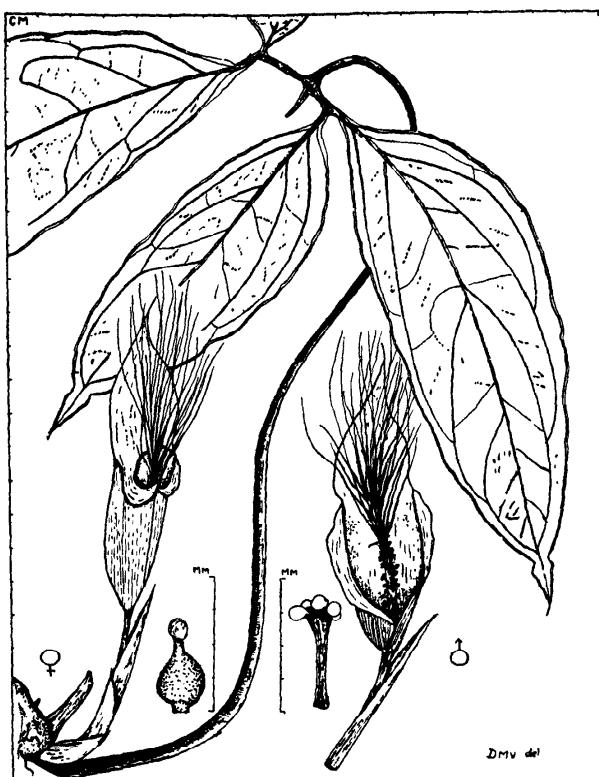


Fig. 1 : *Arisaema setosum* A. S. Rao and D. M. Verma spec. nov.
Female plant with spathe intact; female flower. (R. S. Rao 17907A).
Male flower; male spathe split open. (R. S. Rao 17907B).

long; leaflets 5, lanceolate or oblanceolate with the lateral leaflets slightly oblique, unequal, 12-20 cm

long, 4-6 cm broad, caudate-acuminate, margins slightly undulate; basal lateral nerves sub-marginal, free, upper ones anastomosing variously towards margins. *Peduncle* arising directly from the rhizome and distinct from the petiole, sheathed, 4.5-7 cm long 2-3 mm thick; sheaths 3-4, membranous, acute, outer ovate, inner lanceolate, the innermost equal to or slightly longer than the peduncle. *Spathe* tubular below, 7-9 cm long; tube cylindric, 3.2-3.5 cm long, ca 1.5 cm wide; limb ovate-lanceolate, 3.6-5.2 cm long, ca 2 cm broad, base auriculate, apex caudate, ca 5 mm long; auricles reniform, ca 10 mm long, ca 5 mm wide. *Spadix* sessile; floriferous part ca 2 cm long; appendage shorter than the floriferous part, ca 2.5 mm thick at base, topped with a tassel of filaments; filaments numerous, ca 3-5 cm long, pinkish-green (fide R. S. Rao). *Male flowers* sparse; stipe 1.5-2.5 mm long; anthers 4-5, globose, minute. *Female flowers* contiguous; ovary ovoid, style short, attenuate; stigma capitate. (Fig. 1).

Holotype: R. S. Rao 17907A, ♀, Sirang to Guizing, Siang dist., N.E.F.A., 20.11.1958, (CAL.). Paratype: R. S. Rao 17907B, ♂, (ASSAM).

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SOLANUM HISPIDUM PERS.—A NEW RECORD FOR SOUTH INDIA

The plant forming the subject of this note was collected from Shevaroy Hills, Salem Dt., Madras State at an altitude of ± 1500 m on 27-2-1964. The herbarium sheet A. V. N. Rao 18215 is deposited in the Herbarium of the Botanical Survey of India, Coimbatore. As far as is known to the author this plant has not been collected from South India. A complete description of the plant based on fresh specimens, is given below.

This species is native of tropical America and is found to be naturalized in Shevaroy Hills.

Solanum hispidum Pers. *Syn. Plantarum* 1: 228.
1905.

Shrubs 4 to 4.5 m tall, erect, woody, terete, pale green to gray, hispid to stellately brown tomen-

tose, more so in younger parts, prickly; prickles curved downward. Leaves upto 56 cm long, 34 cm broad, simple, alternate, crowded at the end, exstipulate and petiolate; petioles upto 14 cm long, terete, dense brown stellate-tomentose, often with curved prickles; lamina ovate, 9 to 11 lobed, wavy at margins, acute at apex, oblique at the base, dense stellate-tomentose, more so on the midrib and veins beneath, sparsely so on the upper surface, often with a few prickles on the midrib and veins of both the surfaces. Inflorescence corymbose cymes, often dichotomous, axillary or extra-axillary, pedunculate; peduncles dense brown stellate-tomentose. Flowers regular, bisexual, ebracteate, pedicellate; pedicels ± 15 mm with dense stellate-tomentose hairs, thickened upwards. Calyx