

Specimens examined: M. K. Ghosh 2656, 19.12.64, Polba village near Bandel; 2660, 28.12.64 near Kamarkundu Rly. Station; 2667, 28.12.64, Mayapur village on the way to Arambagh; Ecology Herbarium, Botanical Survey of India, Calcutta.

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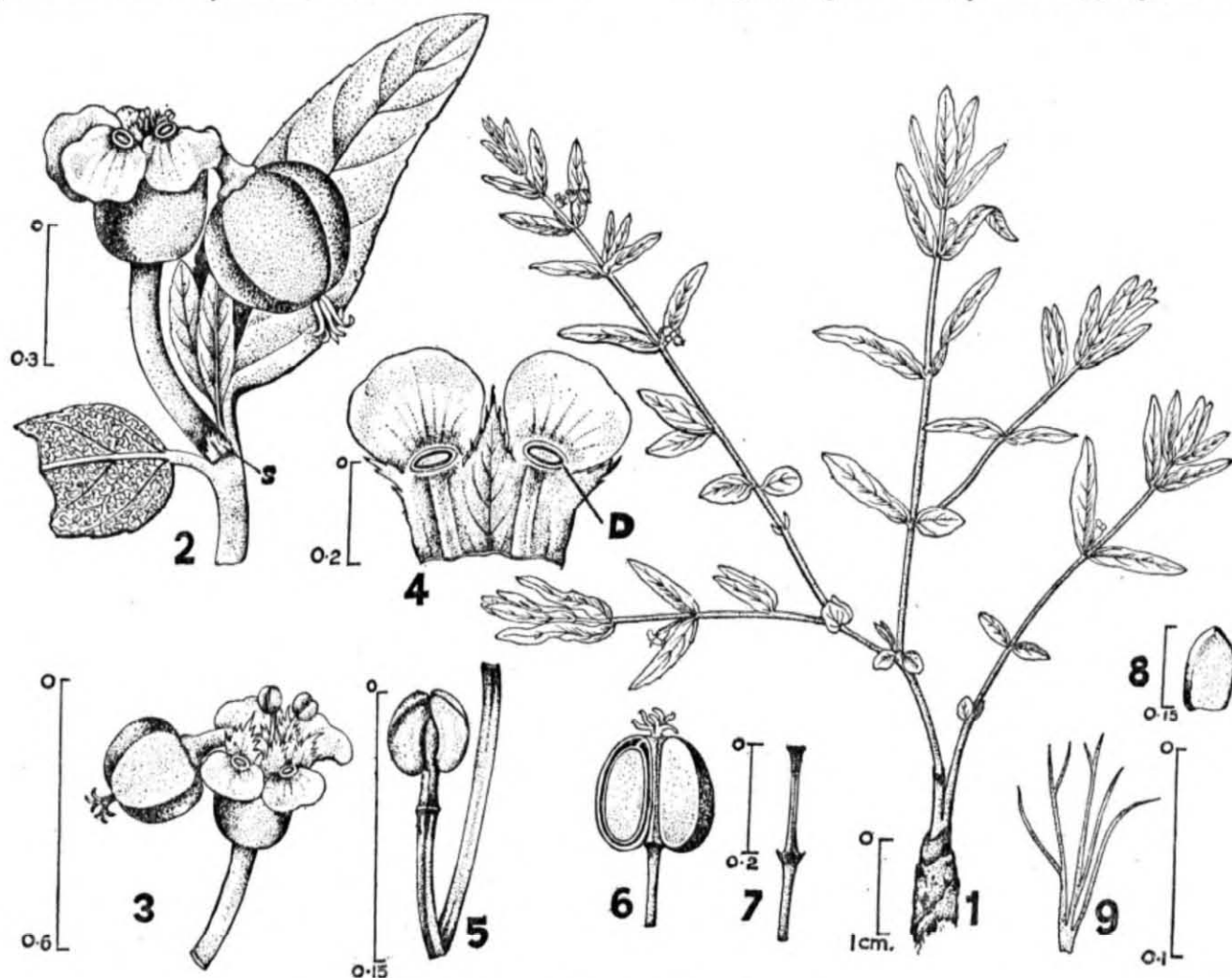
EUPHORBIA LINEARIFOLIA ROTH VAR. NALLAMALAYANA ELLIS—A NEW VARIETY FROM ANDHRA PRADESH, SOUTH INDIA

Euphorbia linearifolia Roth var. **nallamalayana** Ellis

Varietati *linearifoliae* affinis, sed differt foliis latoribus et acutis, glandularum limbo brevioribus.

Herba decumbens, glabra, 5-30 cm longa, nodis tumescentibus, internodiis brevibus longisve. Folia sat crassa, glabra, areolato-reticulata, opposita, ad apices ramorum proxima, lineari-lanceolata vel

ovato-lanceolata, acuta vel obtusa, inconspicue serrulata, apiculata, breviter et inaequaliter cordata ad basin, breviter petiolata, nervo medio eminenti, ad 5 × 1.2 cm. Stipulae interpetiolares, ovatae, interdum usque ad medium fissae, ciliatae ad margines. Involucra terminalia subterminalia vel axillaria, subcorymbosa subapicibus ramorum vel solitaria, glabra, pedicellata, pedicellis ± 0.5 cm longis.



Euphorbia linearifolia Roth var. *nallamalayana* Ellis

Figs. 1-9: 1. Habit. 2. A nodal regional with section of a leaf showing venation. S—stipule. 3. Cyathium. 4. Involucral lobes, and glands with limbs. D—gland. 5. Male flower with bracteole. 6. Ovary with a carpel removed, and L.S. of a carpel. 7. Columella. 8. Seed. 9. Peripheral bracteole. (measurements in centimetres)

Involucris laciniae 5, acutae, marginibus fimbriatis. Glandulae 4, inter lacinias, ovaes; limbo orbiculari, longiore quam lato, apice minutim sinuato, pallide roseo, $\pm 0.3 \times 0.2$ cm. Flores masculini plures, nudi, bracteolati; antherarum cellulae subgloboae, dehiscetes longitudinaliter; bracteolae lineares. Flores femini exserti stipitibus longis insidentes in medio involucris, ovario glabro, tricarpellato syncarpo, uno ovulo pendulo in singulis cellulis, $\pm 0.3 \times 0.25$ mm; styli 3, singuli bifurcati in 2 stigmata. Bracteolae peripherales plures laciniae. Capsula glabra, loculicide dehiscens, columella persistente relicta. Semina obtuse quadrangularia, levia.

Typus *Ellis 16774 A*, isotypi *16774 B-D* lecti die 6-7-1963 et paratypi *Ellis 23711 A-L* lecti 18-3-1965 ad Chelama, Nallamalais, in Dist. Kurnool, in regione Andhrice. Typus positus in CAL, caeteri in Herbario regionis australis Bot. Surv. Ind. ad Coimbatore.

***Euphorbia linearifolia* Roth var. *nallamalayana* Ellis**

Allied to var. *linearifolia*, but differs in having leaves broader and acute, and limbs of glands shorter.

Herbs decumbent with prominent root stocks, glabrous, very variable in length from 5 to 30 cm; nodes swollen and internodes long or short. Leaves rather thick, glabrous, areolata-reticulate, opposite, close towards ends of branches, linear-lanceolate to ovate-lanceolate, acute or obtuse, inconspicuously serrulate, apiculate, unequally shortly cordate at base, shortly petiolate, midribs prominent, upto 5×1.2 cm. Stipules interpetiolate, ovate, sometimes cleft in the middle, ciliate on margins. Involucres terminal, subterminal or axillary, subcorymbose towards ends of branches, or solitary, glabrous, pedi-

cellate; pedicels ± 0.5 cm long. Involucral lobes 5, acute, margins fringed. Glands 4, in between lobes, oval; limbs orbicular, rather longer than broad, tips minutely sinuate, pale pink, $\pm 0.3 \times 0.2$ cm. Male flowers numerous, naked, bracteolate; anther cells subglobose, dehisce longitudinally; bracteoles linear. Female flowers exserted on long stalks in the centres of involucre; ovaries glabrous, tricarpellary, syncarpous with single pendulous ovule in each cell, $\pm 0.3 \times 0.25$ mm; styles 3, each bifurcating into two stigmata. Peripheral bracteoles numerous, laciniate. Capsules glabrous, dehisce loculicidally, leaving a persistent columella. Seeds obtusely quadrangular, smooth.

Holotype *Ellis 16774 A*, Isotypes *Ellis 16774 B-D* were collected on 6-7-1963, and Paratypes *Ellis 23711 A-L* were collected on 18-3-1965 from Chelama, Nallamalais, Kurnool Dt., Andhra Pradesh, S. India. Holotype *Ellis 16774 A* is kept in the Central National Herbarium, Sibpore, Calcutta, and Isotypes and Paratypes are kept in the Herbarium of the Southern Circle, Botanical Survey of India, Coimbatore.

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SOME NEW RECORDS OF MOSSES FROM WESTERN HIMALAYAS

During 1962 and 1963 collections of mosses were made from Tehri, Mussoorie and Chakrata and from some places in Jammu and Kashmir. Out of these collections, three species namely *Barbula asperifolia* Mitt. (Pottiaceae), *Anomobryum auratum* (Mitt.) Jaeg. (Bryaceae) and *Aerobryidium filamentosum* (Hook.) Fleisch. (Meteoraceae) were found to be new records for Western Himalayas. *Barbula asperifolia* Mitt. was first described by Mitten (1859) from Sikkim, based on the material

collected by J. D. Hooker. *Anomobryum auratum* (Mitt.) Jaeg. was also described by the same author in 1859 based on Hooker's material from Nepal and Sikkim. Since then there has not been any further report of both these taxa from any part of the country until this note. *Aerobryidium filamentosum* (Hook.) Fleisch. reported from Nepal, Sikkim, Bhutan and Nilghiris (Bruhl 1931, Noguchi 1964) is also new for Western Himalayas.