

Holotype: Kukinakhel 3200 m, Eastern Chamoli, Garhwal. May 1967, U. C. Bhattacharyya 37230 (CAL); *Isotype*: Ditto, 37230 A & B (BSD).

Harry Smith (1958) described *S. poluniniana* based on specimens collected from Nepal between Padmara and Bumra, Padmara Lagna, 3450 m. It is not, so far, reported from anywhere else. This variety *mucronata* was collected by the senior author for the first time from Western Himalaya. This newly discovered taxon was col-

lected between Wan and Kukina Khal 3200 m on dripping south-facing moist rock and also on north-facing steep rock. It is a handsome plant for growing in temperate, moist rock gardens.

H. Smith (1958) states that the affinity of this species is obscure. We find that it can be placed near to *S. burseriana* Linn. (Engl. et Irmsch., 1958) from which it differs in not having both erect and patent leaves and the leaves being all glabrous, acute and mucronate, and in petals being erect, clawless.

S. poluniniana H. Smith, *Saxifraga* of the Himalaya I. Section Kabschia in Bull. Brit. Mus. (Nat. Hist.) Bot. Vol. II (4) : 114-116, 1958.

S. poluniniana H. Smith var. *mucronata* U. C. Bhattacharyya 37230.

1. Occurring in cushions of 10-13 mm diameter.
2. Leaf linear, apex sub-acute, 5-6.2 mm long, 1.5 mm broad.
3. Sepals ovate, obtuse, tip recurved, 3.5 mm long, 2.5 mm broad.
4. Petals upper half sub-orbicular, base narrow, attenuate, 10 mm long, 5 mm broad.
5. Stamens about twice shorter than petals.
6. Style 4 mm long.

1. Cushions 15-20 cm diameter.
2. Leaf linear to oblong, apex acute, mucronate 6-12 mm long, 1.5-2 mm broad.
3. Calyx $\pm$ 5.5 mm long, 3 mm broad, lobes ovate, acute, erect, 2.5-3 mm long, 1.1-5 mm broad.
4. Petals oblong, broad and rounded above, nerves more in number than in the 'Type'.
5. Stamens about half as long as petals.
6. Style 5 mm long.

ACKNOWLEDGEMENTS

The authors are thankful to Dr. G. Panigrahi, Deputy Director, Botanical Survey of India for comparing the specimen at British Museum and sending a suggestive note; to Dr. M. A. Rau, former Deputy Director, Botanical Survey of India, Dehra Dun, for having gone through the manuscript and to Dr. N. C. Mazumdar for latinisation of the description.

U. C. BHATTACHARYYA

Botanical Survey of India, Howrah

AND

M. V. BISWANATHAN

Botanical Survey of India, Dehra Dun

REFERENCES

- ENGLER, A. AND E. IRMSCHER. Das Pflanzenreich Heft 67 & 69, 1958 (Rev. ed.).
SMITH, H. *Saxifraga* of the Himalaya I. Section Kabschia. Bull. Brit. Mus. (Nat. Hist.) Bot. 2 (4) : 114-116. 1958.

EULOPHIA NICOBARICA BALAKR. & N. G. NAIR (ORCHIDACEAE)—A NEW SPECIES FROM CAR NICOBAR ISLAND

Eulophia nicobarica Balakr. & N. G. Nair, sp. nov. (sect. *Eulophia*)—*E. squalidae* Lindl. et. *E. elatae* Hook. f. affinis, a qua tamen differt bracteis 2-5 longis, floribus aequantibus; sepalis majoribus, oblanceolatis, obtusis, apiculatis, multinerviis; petalis luteis, obovatis, obtusis; labellis luteis cum purpureo-maculatis et elongato-tuberculatis, luteis ad discis.

Herba, perennis terrestris; pseudobulbi tuberantes; ex parte hypogei, oblongo-ellipsoidei, 2.0-3.5 cm longi, 1.5-2.5 cm lati. *Folia* 3-4, lineari-vel elliptico-lanceolata, vaginantis ad basin, acuta ad apicem, integra, 20-65 cm longa; 2-4 cm lata, glabra; nervi principales 5-7. *Scapi* erecti, coetanei ex laterales pseudobulbis, 30-45 cm longi; vaginae 3-5, 6-8 cm longae, 1.0-1.5 cm latae; racemi 13-16 cm

longi; bracteae lanceolatae, acuminatae, 2-5 cm longae, 3-8 mm latae, multinerves, scariosi, flores aequantia. Flores 12-15, dense dispositi, florentes centripeti, ± 3 cm lati, pedicellus cum ovario 1.5-2.5 cm longus, + 2 mm crassus, viridis, glaber. *Sepala* oblongo-oblan-ceolata, apiculata, extra brunneo-viridia cum virideo-striata ad costa, intra brunneo-purpurea, lutea ad marginem; sepalum intermedium 18-22 mm longum, 8-12 mm latum, 10-12 nerve; sepala lateralialia 20-24 mm longa, 10-13 mm lata, 10-12 nervis. *Petala* obovata, rotunda et sinuata ad apicem, 1.0-1.4 cm longa, 0.8-1.0 cm lata, lutea. *Label-lum* a base columnae fixum, ambitu oblongum vel oblongo-ellipticum, crispum ad marginem, 20-22 mm longum, 10-12 mm latum, multinerve, luteum cum purpureo-fasciatum ad discum; lobus medius recurvatus, multi-tuberculatus et luteus ad discum; lobi laterales erecti; calcar oblongo-ovoideum, obtusum, leviter curvatum, ± 5 mm longum, ± 2 mm latum. *Columna* late elliptica, obovata, alata ad margina lateralis, apiculata, incurvata, ± 10 mm longa, ± 7 mm lata, lutea et purpurea prope rostellum; operculum ± 3 mm latum, purpureo-maculatum et bicornutum ad apicem; pollinia 2, transverse-ovoidea, sulcata ad infimum, ± 2 mm longa, ceracea; stipes ± 1 mm longus, albus; discus ellipticum, ± 2 mm longus, viscidus, albus.

Prope Passam, Car Nicobar, 15-6-1974, N. G. Nair 1647 A (HOLOTYPUS in CAL) et 1647 B-F (ISOTYPI in PBL*)

Eulophia nicobarica Balakr. & N. G. Nair, sp. nov. (sect. *Eulophia*)—Allied to *Eulophia squalida* Lindl. and *E. elata* Hk. f., but differs in bracts being as long as the flowers, 2-5 cm long; sepals larger, oblan-ceolate, obtuse, apiculate, many-nerved; petals yellow, obovate, obtuse; lip yellow

with purple streaks on disc, many-nerved and with many yellow elongate tubercles on disc.

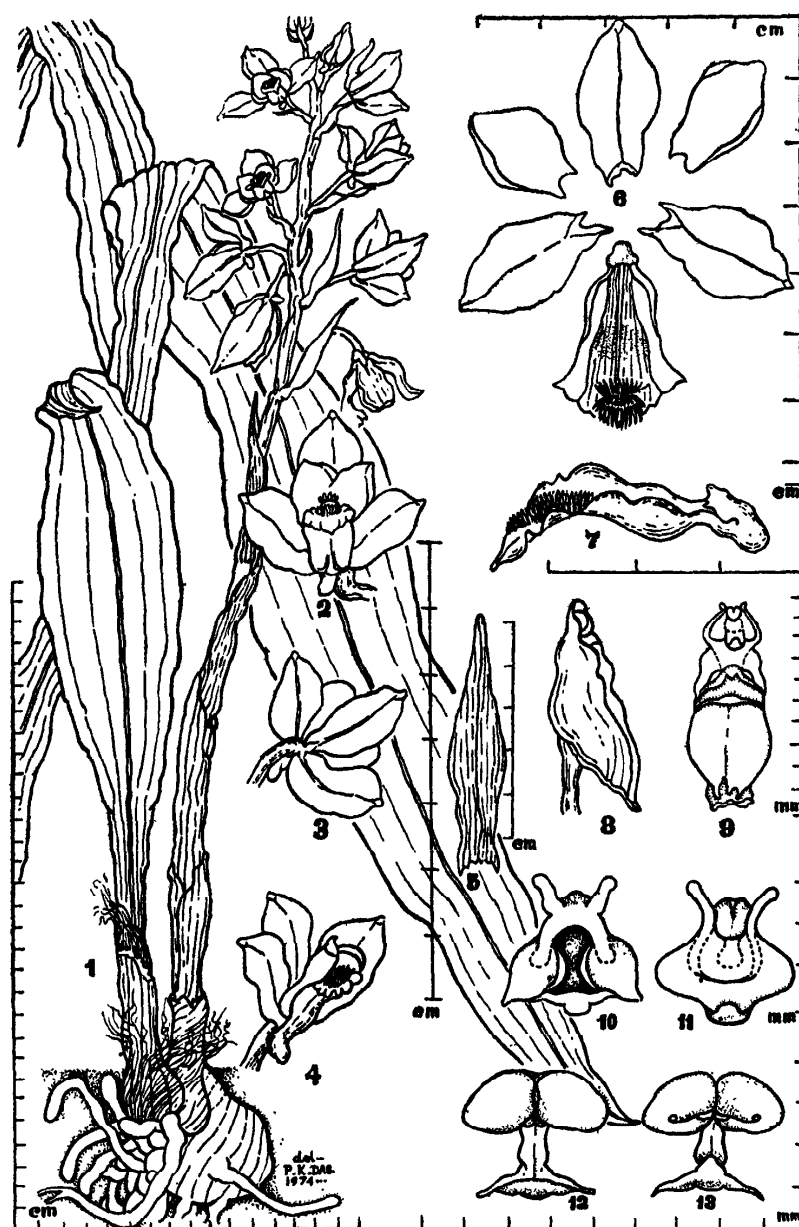
Perennial terrestrial herbs; pseudobulbs tuberos, partly above the ground, oblong-ellipsoid, 2.0-3.5 cm long, 1.5-2.5 cm broad. *Leaves* 3-4, sheathing at base, linear-lanceolate to elliptic-lanceolate, acute at apex, entire, 20-65 cm long, 2-4 cm broad, glabrous; main nerves 5-7. *Scape* erect, appearing with the leaves, lateral from the pseudobulbs, 30-45 cm long; sheaths 3-5, 6-8 $\times$ 1-1.5 cm, thin, scarios, covering the scape; racemes 13-16 cm long; bracts lanceolate, acuminate, 2-5 cm long, 3-8 mm broad, many-nerved, scarios, almost as long as the flowers. *Flowers* 12-15, densely arranged, opening centripetally, ± 3 cm across; ovary with pedicel 1.5-2.5 cm long, ± 2 mm thick, green, glabrous. *Sepals* oblong-oblan-ceolate, apiculate, greenish brown with a green band on midrib outside, yellowish at margins, purplish brown inside; middle sepal 18-22 mm long, 8-12 mm broad, 10-12-nerved; lateral sepals 20-24 mm long, 10-13 mm broad. *Petals* obovate, rounded and wavy at apex, 1.0-1.4 cm long, 0.8-1.0 cm broad, yellow. *Lip* attached to base of column, oblong to elliptic-oblong in outline, crisped at margins of midlobe, 20-22 mm long, 10-12 mm broad, many nerved, yellow with purple streaks on disc; midlobe recurved, crested with many yellow elongate tubercles on disc; lateral lobes erect, not prominent; spur ovoid, obtuse, slightly curved, ± 5 mm long, ± 2 mm broad. *Column* elliptic-obovate, winged at lateral margins, apiculate at apex, incurved, ± 10 mm long, ± 7 mm broad, yellow with purple streaks near rostellum; operculum ± 3 mm across, purplish spotted with 2 blunt horns at apex; pollinia 2, transversely ovoid, grooved at base, ± 2 mm long, waxy; stipe ± 1 mm long; disc elliptic, ± 2 mm long, viscid, white.

Near Passa, Car Nicobar, 15-6-1974, N. G. Nair 1647 A (Holotype in CAL); 1647 B-F (Isotypes in PBL). Fairly common in moist

*Andaman & Nicobar Herbarium of Botanical Survey of India, Port Blair, India. This recently established herbarium has not yet been included in Index Herbariorum and hence the abbreviation PBL is tentative.

shaded places with sandy loam and a fair percentage of clay. Flowering time: June-July.

for all facilities and to Dr. M. P. Nayar, Keeper, Central National Herbarium, Howrah for valuable suggestions.



Eulophia nicobarica Balakr. & N. G. Nair

Figs. 1-13: 1. Plant. 2, 3 & 4. Flower in front, back & side views. 5. Bract. 6. Perigone, the lip is spread out. 7. Lip, inside view. 8 & 9. Column, side & front views. 10 & 11. Operculum, back & front views. 12 & 13. Pollinia with stipe & disc, front & back views. (All drawn from living specimen, N. G. Nair 1647 A)

ACKNOWLEDGEMENTS

The authors wish to express their thanks to the Director, Botanical Survey of India

N. P. BALAKRISHNAN AND N. G. NAIR

Botanical Survey of India, Port Blair