

**ON A NEW SPECIES OF GENUS *INDICOVALIPORA*, SHINDE AND  
DESHMUKH, 1985 (CESTODA : DILEPIDIDAE) FROM *VARANUS INDICUS***

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The present communication deals with a new species of the genus *Indicovalipora* Shinde and Deshmukh 1985 collected from *Varanus indicus* at Pathri, Dist. Parbhani, M.S. India. It differ from all the known species of genus with characters, scolex oval, mature segment longer than broad, testes 116 in number, cirrus pouch medium, cirrus coiled, vagina wide, anterior to the cirrus pouch, ovary distinctly bilobed, ootype is oval, genital pore small, vitellaria follicular, rounded, eggs oval.

**Key words :** *Indicovalipora*, *varanus indicus*, Cestoda, Pathri.

### INTRODUCTION

The genus *Indicovalipora* was erected by Shinde and Deshmukh 1985 from the *Varanus indicus* as type species *I. marathwadensis* et. sp. nov later on three more species are added to this genus, *I. varanusi*, *I. aurangabadensis* and *I. pathriensis* from *Varanus indicus*.

### MATERIALS AND METHODS

Eleven specimens of cestode parasites were collected from the intestine of *Varanus*, *varanus indicus*. The collected worms washed, relaxed, fixed in 4% formalin, stained with H. haematoxylin, dehydrated and cleared in xylene and mounted in D.P.X. Drawing were made with the help of Camera lucida. All measurements are in millimeter (mm).

**Description (Fig. 1) :** Scolex medium, oval and measures 0.582 - 0.689, suckers medium, almost in transverse and measures 0.146 - 0.050 in length and 0.112 - 0.131 in width. Rostellum small, oval and measures 0.043 - 0.063 in length and 0.024 - 0.039 in width. Rostellar books small, pin like, 26 in number and measures 0.049 - 0.067 in length and 0.004 - 0.010 in width. Neck longer than broad and measures 0.689 - 0.825 in length and 0.165 - 0.350 in width.

Mature proglottids rectangular, longer than broad acraspedote and measures 1.968 - 2.195 in length and 0.720 - 0.633 in width. Testes oval, medium, 116 in number, preovarian and measures 0.037 - 0.098 in length and 0.030 - 0.091 in width. Cirrus pouch medium, obliquely placed and measures 0.242 - 0.318 in length and 0.076 - 0.152 in width. Cirrus medium, highly coiled and measures 0.492 in length and 0.008 - 0.015 in width. Vas deferens long, thin, highly coiled and measures 2.426 in length and 0.008 in width. Ovary large, distinctly bilobed, situated near the posterior margin of the segments, dumb bell shaped and measures 0.621 - 0.697 in length and 0.492 - 0.591 in width. Isthmus short, medium, connected two lobes measures 0.083 - 0.129 in length and 0.038 - 0.076 in width. Vagina is wide, narrow distally, runs medially, crosses the isthmus, reaches and opens into the ootype and measures 1.075 in length and 0.008 - 0.030 in

width. Ootype medium, oval, post ovarian and measures 0.091 in length and 0.045 in width. Genital pores are small, oval, open marginally and measures 0.045 in length and 0.008 in width. Uterus starts from posterior margin of the segments. Crossed the ootype and measures 2.072 in length and 0.015 - 0.341 in width. Vitellaria follicular, small, rounded 2 to 3 rows and measures 0.008 - 0.023 in diameter, eggs are medium, oval and measures 0.017 - 0.019 in length and 0.012 - 0.014 in breadth.

**Type species :** *Indicovalipora govindi* n.sp.

**Host :** *Varanus indicus*

**Habitat :** Intestine

**Locality :** Pathri, Dist. Parbhani (M.S. India)

### RESULTS AND DISCUSSION

The genus *Indicovalipora marathwadensis* is erected by Shinde and Deshmukh, 1985 Later on following species are added to this genus :

*I. varanusi*

*I. aurangabadensis*

*I. pathriensis*

The worm under discussion differ from all other known species *I. govindi* n.sp. in many distinct different characters which are shown and compared with other species of the genus.

The present worm, differs from *I. marathwadensis*, which is having scolex large, oval, suckers small, rostellum with double crown, short, thin, hooks, mature segment squarish, without projections, testes 120-125, round in two lateral groups, preovarian, cirrus pouch oval, small, just posterior to the middle, ovary bilobed, compact, posterior to the cirrus pouch, vitelline gland lobulated, consist three lobes, preovarian differs from *I. varanusi*, scolex small, oval, suckers medium, rostellum with short, thin, with 2 circles of hooks, mature segment 3 times longer than broad, no projections, testes large, oval, 95-100, preovarian, single field, cirrus pouch oval, medium, 1/3<sup>rd</sup> from the posterior margin of the segments lobes oval, vitellaria follicular 2-3 rows, round.

The present worm differs from *I. aurangabadensis*, scolex oval, medium, large suckers, rostellar hooks short, thin, scattered on the rostellum, in single row, mature segment two times longer than broad, no projection, testes 110-115 in number, oval, medium, preovarian, in single field, cirrus pouch oval, elongated, 1/3<sup>rd</sup> from the posterior margin of the segment, cirrus armed, ovary bilobed, lobes compact, direct posteriorly, near the posterior margin of the segment, vitellaria granular, wide strips.

Differs from *I. pathriensis*, scolex small, squarish, rostellar hooks short, single pronged, with single circle of 20 hooks, mature segments, longer than broad, rectangular, with straight lateral margin, testes small, oval, round 150-160, preovarian evenly distributed in a single field, cirrus pouch small, oval, extends medially, up to 1/5<sup>th</sup> of the segments, vagina thin, posterior to the cirrus pouch vitellaria granular, with thin strips, corticular region.

Depending on these different and distinct characters of the worm, the worm considered as a new species *I. govindi* n.sp. is proposed in honor of Dr. W. B. Shinde

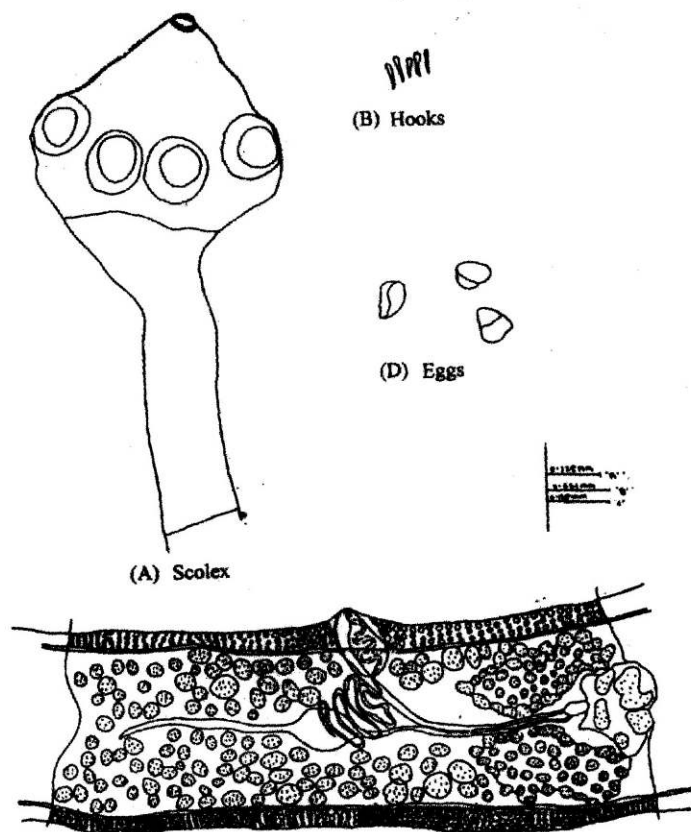


Fig. 1 : *Indicovalipora govindi* n.sp .

Professor of zoology, Dr. B.A. Marathwada University, Aurangabad who has contributed a lot in our knowledge of cestodology.

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