

Neotypification of two names in *Ziziphus* (Rhamnaceae)

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Abstract

The names *Ziziphus horrida* Roth and *Ziziphus truncata* Blatt. & Hallb. are neotypified.

Keywords: Maharashtra, Neotypification, Rajasthan.

Introduction

The genus *Ziziphus* Mill. includes c. 65 species (Mabberley, 2017), of which 17 species and 10 varieties are reported from India (Bhandari & Bhansali, 2000). During revisionary studies on the genus in India, it has been found that the original materials of the names *Ziziphus horrida* Roth and *Z. truncata* Blatt. & Hallb. are not extant. Hence neotypes are designated according to Art. 9.8 of Shenzhen Code (Turland *et al.*, 2018).

Typification

Ziziphus horrida Roth in Roem. & Schult., Syst. Veg. 5: 314. 1819 & Nov. Pl. Sp. 159. 1821.

Neotype (designated here): INDIA, **Maharashtra**, Solapur district, Sulewadi, Malshiras, 28.09.2017, A.R. Gholave & S.P. Gaikwad 550 (CAL; isoneotypes, BSI & SUK). **Fig. 1.**

Note: Until now, the protologue of *Z. horrida* Roth was known to be '*Roth, Nov. Pl. Sp. 159. 1821*', which was also followed by Lawson (1875), Cooke (1902) and Bhandari & Bhansali (1990, 2000). However, we found that Roemer and Schultes (1819) had already validly published *Z. horrida* in their edition of *Systema vegetabilium* (Vol. 5, p. 341), with diagnosis followed by "*Roth nov. pl. Spec. MSS.*" As this represents direct association of Roth with both the name and the diagnosis, the name has to be cited as *Z. horrida* Roth, not *Z. horrida* "Roem. & Schult." nor *Z. horrida* "Roth ex Roem. & Schult." (cfr. Art 46.3, Ex. 15 in Turland *et al.*, 2018). In fact before the publication of the new taxa of Roth in *Novae plantarum* species a manuscript

copy of Roth's work was available to Roemer and Schultes (Stafleu & Cowan, 1983).

In the protologue of *Z. horrida* collection of Benjamin Heyne from '*India orientalis*' was cited. Heyne had originally intended to present his set of plants to Willdenow but the latter had died before Heyne's return to Berlin. Heyne then gave the plants to Roth. According to Stafleu and Cowan (1983) the herbarium and types of A.W. Roth are at B and B-Willd (now B-W). It was stated that Roth's main herbarium was in Oldenburg, Germany and was later transferred to B in 1925/26, where it was incorporated into the main collection. The herbarium at Berlin was largely destroyed during the Second World War in 1943. After enquiring the authorities of B and B-W we came to know that there is no such collection in their herbaria. From Stafleu and Cowan (1979) we found the materials of Heyne are at B, BR, CGE, G, GH, H, K and LE. However, we were informed by the authorities of these herbaria that no duplicates of collections by Heyne could be traced. Thus, we have neotypified the name following Art. 9.8 (Turland *et al.*, 2018).

Ziziphus truncata Blatt. & Hallb., J. Bombay Nat. Hist. Soc. 26: 234. 1918.

Neotype (designated here): INDIA, **Rajasthan**, Jodhpur district, Kaylana, 19.12.2017, A.R. Gholave & S.P. Gaikwad 552 (CAL; isoneotypes, BSI, SUK). **Fig. 2.**

Notes: Blatter and Hallberg (1918) mentioned "Jodhpur, Kailana (No. 5803!)" in the protologue. Being Blatter was working in the BLAT, we assume that the type could be deposited at BLAT. However, the search for the original material '5803' could not be traced at BLAT and its duplicates at BSI, BSJO,

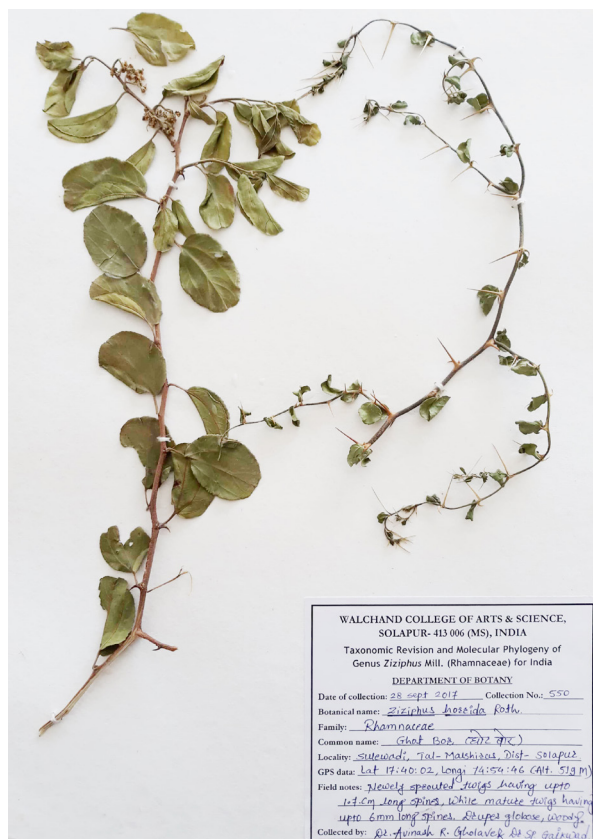


Fig. 1. Neotype of *Ziziphus horrida* Roth (A.R. Gholave & S.P. Gaikwad 550, CAL)

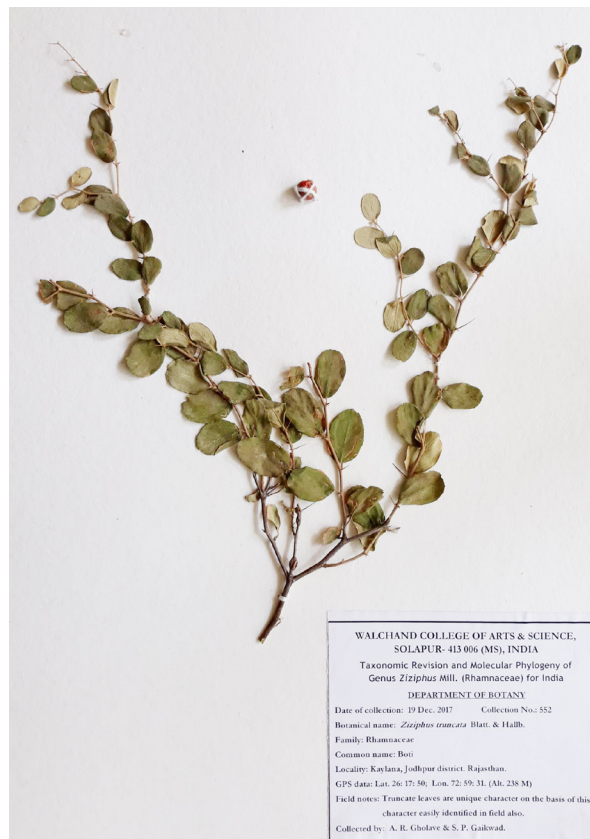


Fig. 2. Neotype of *Ziziphus truncata* Blatt. & Hallb. (A.R. Gholave & S.P. Gaikwad 552, CAL)

CAL and JAC. Thus, in the absence of any original material the name is neotypified based on a specimen collected from the type locality Kaylana (Kailana), following Art. 9.4 and 9.8 of Shenzhen Code (Turland *et al.*, 2018).

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