

Aquitanian Ostracod Biostratigraphy of Bombay High, Bombay Offshore Basin, India

Anil BHANDARI

Seventy ostracod taxa are recorded from the subsurface wells of the Lower Miocene (Aquitanian) beds of Bombay High, Bombay Offshore Basin, India. Of which, 13 species are new. They are: *Actinocythereis pseudogujaratensis*, *Bairdoppilata angulata*, *B. distincta*, *B. elongata*, *B. sinhai*, *Bythocypris pandeyi*, *Hermanites aquitanica*, *Hornibrookella mumbaiensis*, *Hemicytheridea keeni*, *Paracypris indica*, *Phlyctenophora maharashtraensis*, *Pokornyella maharashtraensis*, and *Quadracythere colini*.

On the basis of First Appearance Datum (FAD) and Last Appearance Datum (LAD) of ostracods, the early Lower Miocene (Aquitanian) section is divisible into six ostracod interval zones: They are in ascending order: 1. *Hermanites aquitanica* n.sp.–*Alocopocythere elongata* Interval Zone, 2. *Alocopocythere elongata*–*Pokornyella mehrai*-B Interval Zone, 3. *Pokornyella mehrai*-B–*Hemicytheridea keeni* Interval Zone, 4. *Hemicytheridea keeni*–*Bythocypris pandeyi* Interval Zone, 5. *Bythocypris pandeyi*–*Stigmatocythere* (B) *khoslai* Interval Zone and 6. *Stigmatocythere* (B) *khoslai*–*Pokornyella pindaraensis* Interval Zone.

All the new ostracod taxa and ostracods, which are recorded for first time in the Lower Miocene of Bombay High are briefly described and illustrated.

Authors address:

Anil Bhandari

Basin Research Group, Keshava Deva Malaviya Institute of Petroleum Exploration,
ONGC, Dehradun-248195 (Uttarakhand), India

anilbhandari27@gmail.com