

## An updated checklist of marine and estuarine mollusc of Odisha coast

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Present paper is an updated checklist of molluscs of Odisha coast based on recent surveys and past literature available at library, museum and internet sources. The checklist consist of Polyplacophora, Gastropoda, Scaphopoda, Bivalve and Cephalopoda available in and around the marine and estuarine waters of Odisha coast including largest brackish water lagoon of India, Chilka Lake. In total 496 species are enlisted, belongings to 261 genera, 124 families and 33 orders under five classes. The paper also reports 43 species for the first time from Odisha coast.

**[Key Words:** Checklist, Costal fauna, Molluscan diversity, Odisha coast.]

### Introduction

India having 5,423 kilometers long coast line belongs to peninsular India and 2,094 kilometres to the Andaman, Nicobar and Lakshadweep group of Islands. The Odisha state is having 480 km of coast line along northern part of east coast of India on Bay of Bengal. The state is having some major estuaries i.e. Bhitarkanika, Dhamra, Mahanadi, Rushikulya, Subarnarekha and Bahuda. The India's largest brackish water lagoon, Chilka Lake is situated along this coast. Exploration of Indian mollusc started in late 18<sup>th</sup> century, which was initiated by the Asiatic Society of Bengal (1784) and the Indian Museum (1814) and most significant work was done during the beginning of 20<sup>th</sup> century by Zoological Survey of India (ZSI). Eerstwhile major contribution on gastropods and polyplacophora was by Subba Rao<sup>1</sup> and on cephalopoda, bivalve and scaphopoda was by Ramakirshna and Dey<sup>2</sup>. Other contributions were Hornell<sup>3</sup>, Subba Rao and Dey<sup>4,6</sup>, Satyanarayana Rao<sup>7</sup>, Subba Rao and Surya Rao<sup>8</sup> and Dey<sup>9</sup>. About 3370 species<sup>10</sup> are reported so far from the marine and estuarine habitats of Indian waters.

The taxonomic study of molluscs along the coastal stretch of Odisha state began from Chilka Lake along with other faunal groups and subsequently extended to Mahanadi, Rushikulya and Bahuda estuaries along with other part of coastal region. The different

surveys or studies on mollusca along the Odisha coast were done by Preston<sup>11,12</sup>, Annandale and Kemp<sup>13</sup>, Annandale and Prashad<sup>14</sup>, Nagabuhushanam and Chandrasekhara Rao<sup>15</sup>, Nagabuhushanam<sup>16</sup>, Subba Rao *et al.*<sup>17,18</sup>, Rama Rao *et al.*<sup>19</sup>, Surya Rao and Mitra<sup>20</sup>, Pati<sup>21</sup>, Ganesh and Raman<sup>22</sup>, Pati *et al.*<sup>23</sup>, Mitra *et al.*<sup>24</sup>, Tudu and Mohapatra<sup>25</sup>, Nayak *et al.*<sup>26</sup>, Tudu *et al.*<sup>27,28</sup>, Pati and Panigrahy<sup>29</sup>, Behera and Nayak<sup>30</sup>, Yennawar and Tudu<sup>31</sup>, Tudu and Ray<sup>32</sup>, and Jasmine *et al.*<sup>33</sup>.

### Materials and Methods

The beaches along 480 km of the Odisha are surveyed during April 2008 – March 2011 and April 2012-March 2015 for faunal exploration, and 13 localities are selected for the study i.e. Talsari (21° 36'N and 087° 27'E), Kirtiniya (21° 34'N and 087° 22'E), Chandipur (21° 27'N and 087° 03'E), Dhamra (28° 46'N and 086° 59'E), Paradip (20° 17'N and 086° 42'E), Kanark (19° 51'N and 086° 06'E), Puri (19° 47'N and 085° 49'E), Mahanadi estuary(20° 17'N and 086° 43'E), Chilka New Mouth (19° 40'N and 085° 26'E), Chilka Lake (19° 44'N and 085° 12'E), Rushilakya estuary (19° 24' N and 085° 05' E), Bahuda estuary (19° 04' N and 084° 35' E), and Gopalpur beach (19° 15'N and 084° 54'E). Along with these localities, adjoining areas are surveyed for several times during this period and the live well as dead shell specimens are collected. The live specimens are

preserved in the 4% formal dehyde solution and dead shells are kept dry in plastic box. Also, the specimens of the National Zoological Collections present at the Marine Aquarium and Regional Centre, ZSI are accessed. The identification was made based on their morphological characters and classification of Bouchet and Rcroi<sup>34</sup> is followed for gastropods, Bieler *et al.*<sup>35</sup> for bivalve and for Polyplacophora, Scaphopoda and Cephalopoda Vecchione *et al.*<sup>36</sup> and World Register of Marine Species<sup>37</sup> are followed respectively. Previous literatures as well as present

collections are taken into account for the preparation of the checklist of marine and estuarine mollusc of Odisha coast.

## Results

An updated checklist has been presented and only the species with valid names are enlisted. In this list 496 species, belonging to 261 genera, 124 families and 33 orders under five classes are enlisted (Table.1). The highest number of species are gastropoda (277 speceis), followed by bivalve (205 species), and cephalopoda

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast.

Phylum MOLLUSCA	
Class POLYPLACOPHORA	
Order CHITONIDA	
Super family CRYPTOPLACOIDEA H. Adams & A. Adams, 1858	
Family ACANTHOCHITONIDAE Pilsbry, 1893	
Genus <i>Acanthochitona</i> Gray, 1821	
1. <i>Acanthochitona mahensis</i> Winckworth, 1927	Gopalpur <sup>17</sup>
Class GASTROPODA	
Subclass PATELLOGASTROPODA	
Super family NACELLOIDEA Thiele, 1891	
Family NACELLIDAE Thiele, 1891	
Genus <i>Cellana</i> H. Adams, 1869	
2. <i>Cellana radiata</i> (Born, 1778)	Gopalpur <sup>17, 23</sup> , Mahanadi estuary <sup>20</sup> , Rushikulya estuary and Bahuda estuary <sup>23</sup> .
Order VETIGASTROPODA	
Super family FISSURELLOIDEA Fleming, 1822	
Family FISSURELLIDAE Fleming, 1822	
Sub family DIODORINAE Odhner, 1932	
Genus <i>Diodora</i> J.E. Gray, 1821	
3. <i>Diodora singaporensis</i> (Reeve, 1850) = <i>Diadora bombayana</i> (Sowerby II, 1862) <sup>75</sup>	Gopalpur and Puri <sup>17</sup>
Super family TROCHOIDEA Rafinesque, 1815	
Family TROCHIDAE Rafinesque, 1815	
Genus <i>Euchelus</i> Philippi, 1847	
4. <i>Euchelus asper</i> (Gmelin, 1791) = <i>Euchelus alabastrum</i> (Reeve, 1858) <sup>76</sup>	Puri <sup>17</sup>
5. <i>Euchelus horridus</i> (Philippi, 1846)	Ganjam coast <sup>17</sup>
Subfamily TROCHINAE Rafinesque, 1815	
Genus <i>Trochus</i> Linnaeus, 1758	
6. <i>Trochus maculatus</i> Linnaeus, 1758	Gopalpur <sup>25</sup>
Subfamily UMBONINAE H. Adams & A. Adams, 1854	
Genus <i>Umbonium</i> Link, 1807	
7. <i>Umbonium vestiarium</i> (Linnaeus, 1758)	Entire coast of Odisha <sup>12,17,18,20,23,24,30,31</sup>
Family SOLARIELLIDAE Powell, 1951	
Genus <i>Solariella</i> S. Wood, 1842	
8. <i>Solariella obscura</i> Couthouy, 1838	Chilka Lake <sup>74</sup>
9. <i>Solariella satparaensis</i> Preston, 1914	Puri <sup>17</sup> , Chilka Lake <sup>11,12,17,18</sup>
Family SKENEIDAE Clark W., 1851	
Genus <i>Leucorhynchia</i> Crosse, 1867	
10. <i>Leucorhynchia variegata</i> (Preston)	Puri <sup>17</sup> , Chilka Lake <sup>17,18</sup>
Super family TURBINOIDEA Rafinesque, 1815	
Family LIOTIIDAE Gray, 1850 = CYCLOSTREMATIDAE <sup>34</sup>	
Genus <i>Cyclostrema</i> Marryat, 1819	

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (*Contd.*)

11. <i>Cyclostrema eburnea</i> Nevill & Nevill, 1875 Genus <i>Tubiola</i> A.Adams, 1863	Puri <sup>17</sup>
12. <i>Tubiola microscopica</i> (Nevill) Genus <i>Tinostoma</i> P.Fischer, 1885	Puri <sup>17</sup> , Chilka Lake <sup>18</sup>
13. <i>Tinostoma variegata</i> Preston, 1914 Family PHASIANELLIDAE Swainson, 1840 Genus <i>Tricolia</i> Risso, 1826	Chilka Lake <sup>11</sup>
14. <i>Tricolia indica</i> Winckworth, 1940 Order CYCLONERITIMORPHA Super family NERITOIDEA Rafinesque, 1815 Family NERITIDAE Rafinesque, 1815 Genus <i>Clithon</i> Montfort, 1810	Puri <sup>17</sup>
15. <i>Clithon oualaniensis</i> (Lesson, 1831) Genus <i>Nerita</i> Linnaeus, 1758	Chilka Lake <sup>17,18</sup> , Kushabhadra river mouth <sup>17</sup> , Gopalpur <sup>17</sup> , Rushikulya <sup>23,29</sup>
16. <i>Nerita albicilla</i> Linnaeus, 1758	Paradip <sup>17</sup> , Mahandi estuary <sup>20</sup>
17. <i>Nerita articulata</i> Gould, 1847	Chandipur <sup>17</sup> , Hukitola <sup>17</sup> , Mahandi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup>
18. <i>Nerita balteata</i> Reeve, 1855	Chilka Lake <sup>74</sup>
19. <i>Nerita chamaeleon</i> Linnaeus, 1758	Paradip <sup>17</sup> , Mahandi estuary <sup>20</sup>
20. <i>Nerita grayana</i> Recluz, 1843	Talsari <sup>31</sup>
21. <i>Nerita histrio</i> Linnaeus, 1758 = <i>Nerita squamulata</i> Le Guillou, 1841 <sup>38</sup>	Paradip <sup>17</sup> , Mahandi estuary <sup>20</sup>
22. <i>Nerita insculpta</i> Recluz, 1841*	Subarnarekha estuary (Present collection)
23. <i>Nerita planospira</i> Anton, 1838*	Kirtaniya (Present collection)
24. <i>Nerita undata</i> Gmelin, 1791*	Subarnarekha estuary (Present collection)
25. <i>Nerita undulata</i> Gmelin, 1791* Genus <i>Neritina</i> Lamarck, 1816	Subarnarekha estuary (Present collection)
26. <i>Neritina auriculata</i> Lamarck, 1816*	Talsari (Present collection)
27. <i>Neritina smithi</i> Wood, 1828	Subarnarekha estuary <sup>24</sup>
28. <i>Neritina violacea</i> (Gmelin, 1791) Genus <i>Pseudonerita</i> Baker, 1924	Paradip <sup>17</sup> , Mahandi estuary <sup>20</sup>
29. <i>Pseudonerita obtusa</i> (Sowerby, 1841)*	Kirtiniya (Present collection)
30. <i>Pseudonerita sulculosa</i> (Martens, 1877) Genus <i>Smaragdia</i> Issel, 1869	Paradip port <sup>17</sup> , Mahandi estuary <sup>20</sup>
31. <i>Smaragdia mamilla</i> Annandale, 1924	Chilka Lake <sup>17,18</sup>
32. <i>Smaragdia souverbiana</i> (Montrouzier in Souverbie & Montrouzier, 1863) = <i>Neritina souverbiana</i> Montrouzier <sup>39</sup> Super family AMPULLARIOIDEA Gray, 1824 Family AMPULLARIIDAE Gray, 1824 Genus <i>Pila</i> Röding, 1798	Chilka Lake <sup>12</sup>
33. <i>Pila globosa</i> Swainson, 1822 Family VIVIPARIDAE Gray, 1847 Subfamily BELLAMYINAE Rohrbach, 1937 Genus <i>Bellamyia</i> Jousseaume, 1886	Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup>
34. <i>Bellamyia bengalensis</i> (Lamarck, 1822)	Chilka Lake <sup>11,18</sup> , Rushikulya estuary <sup>19</sup> , Subarnarekha estuary <sup>24</sup>
35. <i>Bellamyia dissimilis</i> (Muller, 1774) Order LITTORINIMORPHA Super family CALYPTRAEIOIDEA Lamarck, 1809 Family CALYPTRAEIDAE Lamarck, 1809 Genus <i>Ergaea</i> H.Adams & A.Adams, 1854 = <i>Crepidula</i> Lamarck, 1799 <sup>40</sup>	Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup>
36. <i>Ergaea walshi</i> (Reeve, 1859) Genus <i>Calyptraea</i> Lamarck, 1799	Khira Gachha Madeli (Near Kujang) <sup>17</sup> , Off Ganjam coast <sup>17</sup> , Mahanadi estuary <sup>20</sup>
37. <i>Calyptraea extincitorium</i> Lamarck, 1822 Super family CYPRAEIOIDEA Family CYPRAEIDAE Rafinesque, 1815 Genus <i>Erosaria</i> Troschel, 1863	Khira Gachha Madeli (Near Kujang) <sup>17</sup> , Mahanadi estuary <sup>20</sup>
38. <i>Erosaria ocellata</i> (Linnaeus, 1758) Genus <i>Erronea</i> Troschel, 1863	Rushikulya estuary <sup>19</sup>

*(Contd.)*

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (Contd.)

39. <i>Erronea erronea</i> (Linnaeus, 1758)* Genus <i>Mauritia</i> Troschel, 1863	Gopalpur (Present collection)
40. <i>Mauritia arabica</i> (Linnaeus, 1758) Genus <i>Monetaria</i> Troschel, 1863	Rushikulya estuary <sup>19</sup>
41. <i>Monetaria annulus</i> (Linnaeus, 1758)* Super family FICOIDEA Family FICIDAE Meek, 1864 (1840) Genus <i>Ficus</i> Röding, 1798	Talsari (Present collection)
42. <i>Ficus ficus</i> (Linnaeus, 1758) = <i>F. ficoides</i> (Lamarck, 1822)	Rushikulya and Bahuda estuary <sup>23</sup>
43. <i>Ficus gracilis</i> (Sowerby I, 1825)	Off Puri coast <sup>17</sup> , Balasore Bay <sup>17</sup> , Gopalpur <sup>29</sup>
44. <i>Ficus investigatoris</i> (Smith, 1894)	Ganjam coast <sup>17</sup>
45. <i>Ficus variegata</i> Röding, 1798 Super family LITTORINOIDEA Children, 1834 Family LITTORINIDAE Children, 1834 Subfamily LITTORININAE Children, 1834 Genus <i>Littorina</i> Gray, 1833	Entire Odisha coast <sup>17,20,23</sup>
46. <i>Littoraria cingulifera</i> (Dunker, 1845)*	Talsari, Kirtaniya, Gopalpur (Present collection)
47. <i>Littorina littorea</i> Linnaeus, 1758	Chilka Lake <sup>74</sup>
48. <i>Littorina melanostoma</i> (Gray, 1839)	Hukitola and Khira Gachha Madeli <sup>17</sup> , Mahandi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup>
49. <i>Littorina scabra</i> (Linnaeus, 1758)	Hukitola and Chhatrapur <sup>17</sup> , Mahandi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup>
50. <i>Littorina undulata</i> (Gray, 1839)  Genus <i>Nodilittorina</i> Martens, 1897	Paradip Port and Hukitola <sup>17</sup> , Mahandi estuary <sup>20</sup> , Gopalpur and Bahuda estuary <sup>23</sup> , Subarnarekha estuary <sup>24</sup>
51. <i>Nodilittorina pyramidalis</i> (Quoy & Gaimard, 1830)	Paradip <sup>17</sup> , Mahandi estuary <sup>20</sup>
52. <i>Nodilittorina quadricincta</i> (Muhlfeldt, 1824)* Super family NATICOIDEA Family NATICIDAE Guilding, 1834 Subfamily SININAE Woodring, 1928 Genus <i>Eunaticina</i> P. Fischer, 1885	Gopalpur (Present collection)
53. <i>Eunaticina papilla</i> (Gmelin, 1791) = <i>Eunaticina tener</i> Smith, 1894; <i>E. coarctata</i> (Reeve, 1864) <sup>41</sup> Subfamily NATICINAE Guilding, 1834 Genus <i>Natica</i> Scopoli, 1777	Gopalpur coast <sup>17</sup> , Chilka Lake <sup>18</sup>
54. <i>Natica lineata</i> (Röding, 1798)	Entire Odisha coast <sup>17,20,24</sup>
55. <i>Natica maculosa</i> Lamarck, 1822	Chilka Lake <sup>12</sup>
56. <i>Natica marochiensis</i> (Gmelin, 1791)	Chilka Lake <sup>12</sup> , Bahuda estuary <sup>23</sup>
57. <i>Natica vitellus</i> (Linnaeus, 1758)  Genus <i>Notocochlis</i> Powell, 1933	Khira Gachha Madeli and Gopalpur coast <sup>17</sup> , Chilka Lake <sup>18</sup> , Mahandi estuary <sup>20</sup> , Rushikulya and Bahuda estuary <sup>23</sup> , Subarnarekha estuary <sup>24</sup>
58. <i>Notocochlis gualteriana</i> (Récluz, 1844)	Chilka Lake <sup>18</sup> , Chandrabhaga beach <sup>17</sup> , Rushikulya estuary <sup>19</sup>
59. <i>Notocochlis tigrina</i> (Röding, 1798) Subfamily POLINICINAE Gray, 1847 Genus <i>Neverita</i> Risso, 1826	Entire Odisha coast <sup>17,20,24,31</sup>
60. <i>Neverita didyma</i> (Röding, 1798) Genus <i>Polinices</i> Montfort, 1810	Entire Odisha coast <sup>17,20,23,24,29,31</sup>
61. <i>Polinices mamilla</i> (Linnaeus, 1758)	Subarnarekha estuary <sup>24</sup>
62. <i>Polinices peselephanti</i> (Link, 1807)*	Talsari (Present collection)
63. <i>Polinices tumidus</i> (Swainson, 1840) Genus <i>Sinum</i> Röding, 1798	Entire Odisha coast <sup>17,20,23,31</sup>
64. <i>Sinum delessertii</i> (Recluz, 1843)	False point <sup>17</sup> , Mahandi estuary <sup>20</sup>
65. <i>Sinum neritoideum</i> (Linnaeus, 1758) Super family RISSOIDEA Family ASSIMINEIDAE H. Adams & A. Adams, 1856 Genus <i>Assiminea</i> Fleming, 1828	Chandipur <sup>17</sup> , Mahandi estuary <sup>20</sup> , Talsari <sup>31</sup>
66. <i>Assiminea beddomeana</i> Nevill, 1880	Subarnarekha estuary <sup>24</sup>
67. <i>Assiminea brevicula</i> (Pfeiffer, 1854)	Subarnarekha estuary <sup>24</sup>

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (*Contd.*)

68. <i>Assiminea theobaldiana</i> Nevill, 1880	Mahandi estuary <sup>20</sup>
69. <i>Assiminea woodmasoniana</i> G.Nevill, 1880	Mahandi estuary <sup>20</sup>
Family STENOTHYRIDAE Tyron, 1866	
Genus <i>Stenothyra</i> Benson, 1856	
70. <i>Stenothyra blanfordiana</i> Nevill, 1880 = <i>Stenothyra chilkaensis</i> Preston, 1914; <i>S. obesula</i> Preston, 1915 <sup>42</sup>	Chilka Lake <sup>11,12,18</sup>
71. <i>Stenothyra deltae</i> (Benson, 1836)	Subarnarekha estuary <sup>24</sup>
72. <i>Stenothyra minima</i> (G.B. Sowerby I, 1837)	Chilka Lake <sup>11,12,18</sup>
73. <i>Stenothyra orissaensis</i> Preston, 1914	Chilka Lake <sup>11,12</sup>
74. <i>Stenothyra trigona</i> Preston, 1915	Chilka Lake <sup>12</sup>
Genus <i>Gangetia</i> Ancey, 1890	
75. <i>Gangetia miliacea</i> (G. Nevill, 1880)	Chilka Lake <sup>18</sup>
Family IRAVADIIDAE Thiele, 1928	
Genus <i>Iravadia</i> Blanford, 1867	
76. <i>Iravadia ornata</i> Blanford, 1867	False Point <sup>17</sup> , Mahandi estuary <sup>20</sup>
77. <i>Iravadia funerea</i> Preston, 1916*	Subarnarekha estuary (Present collection)
Super family STROMBOIDEA Rafinesque, 1815	
Family STROMBIDAE Rafinesque, 1815	
Genus <i>Laevistrombus</i> Abbott, 1960	
78. <i>Laevistrombus canarium</i> (Linnaeus, 1758)*	Gopalpur (Present collection)
79. <i>Laevistrombus turtella</i> (Röding, 1798) = <i>Strombus isabella</i> Lamarck, 1822 <sup>43</sup>	Chilka Lake <sup>12</sup>
Genus <i>Strombus</i> Linnaeus, 1758	
80. <i>Strombus gibberulus</i> Linnaeus, 1758	Puri <sup>17</sup>
Genus <i>Rostellariella</i> Thiele, 1929	
81. <i>Rostellaria delicatula</i> (G. Nevill, 1881)	Off Balaswar coast <sup>17</sup>
Super family TONNOIDEA Suter, 1913 (1825)	
Family TONNIDAE Suter, 1913 (1825)	
Genus <i>Tonna</i> Brünnich, 1771	
82. <i>Tonna dolium</i> (Linnaeus, 1758)	Entire Odisha coast <sup>17,20,23,24,31</sup>
83. <i>Tonna sulcosa</i> (Born, 1778)	Balasore Bay and Khira Gachha Madeli <sup>17</sup> , Mahandi estuary <sup>20</sup>
Family BURSIDAE Thiele, 1925	
Genus <i>Bufonaria</i> Schumacher, 1817	
84. <i>Bufonaria crumena</i> (Lamarck, 1816)	Chhatrapur <sup>17</sup>
85. <i>Bufonaria echinata</i> (Link, 1807)	Chilka Lake <sup>74</sup> , Talsari (Present collection)
86. <i>Bufonaria rana</i> (Linnaeus, 1758)	Entire Odisha coast <sup>17,20,23,24,29,30,31</sup>
Genus <i>Bursa</i> Röding, 1798	
87. <i>Bursa granularis</i> (Röding, 1798)	Ganjam coast <sup>17</sup>
88. <i>Bursa spinosa</i> (Lamarck, 1843)	Mahandi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup>
Family PERSONIDAE Gray, 1854	
Genus <i>Distorsio</i> Röding, 1798	
89. <i>Distorsio reticularis</i> (Linnaeus, 1758)	Ganjam coast <sup>17</sup> , Rushikulya estuary <sup>19</sup>
Family RANELLIDAE	
Sub family CYMATIINAE Iredale, 1913 (1854)	
Genus <i>Cymatium</i> Röding, 1798	
90. <i>Cymatium tripus</i> (Lamarck, 1822)	Palur canal (Ganjam) <sup>17</sup> , Rushikulya estuary <sup>19</sup>
Genus <i>Gyrineum</i> Link, 1807	
91. <i>Gyrineum natator</i> (Röding, 1798)	Mahandi estuary <sup>20</sup> , Talsari <sup>31</sup>
Family CASSIDAE Latreille, 1825	
Genus <i>Phalium</i> Link, 1807	
92. <i>Phalium areola</i> (Linnaeus, 1758)	Khira Gachha Madeli and Chandipur <sup>17</sup> , Gopalpur <sup>17,23</sup> , Chilka Lake <sup>18</sup> , Mahandi estuary <sup>20</sup>
Genus <i>Semicassis</i> Mörch, 1852	
93. <i>Semicassis bisulcata</i> (Schubert and Wagner, 1829)	Gopalpur and Chandipur <sup>17</sup> , Mahandi estuary <sup>20</sup>
94. <i>Semicassis canaliculata</i> (Bruguère, 1792)	Chilka Lake <sup>18</sup>
Super family VANIKOROIDEA Gray, 1840	
Family VANIKORIDAE Gray, 1840	
Genus <i>Vanikoro</i> Quoy & Gaimard, 1832	

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (Contd.)

95. <i>Vanikoro cancellata</i> (Lamarck, 1822) Super family VELUTINOIDEA Gray, 1840 Family VELUTINIDAE Gray, 1840 Sub family LAMELLARIINAE d'Orbigny, 1841 Genus <i>Lamellaria</i> Montagu, 1816	Ganjam coast <sup>17</sup>
96. <i>Lamellaria indica</i> Leach, 1867 Super family XENOPHOROIDEA Troschel, 1852 (1840) Family XENOPHORIDAE Troschel, 1852 (1840) Genus <i>Xenophora</i> Fischer von Waldheim, 1807	Talsari <sup>31</sup>
97. <i>Xenophora corrugata</i> (Reeve, 1842)	Odisha coast <sup>17</sup>
98. <i>Xenophora indica</i> (Gmelin, 1791)	Puri <sup>17</sup> , Mahanadi estuary <sup>20</sup>
99. <i>Xenophora solaris</i> (Linnaeus, 1764)  Super family EPITONIOIDEA Berry, 1910 (1812) Family EPITONIIDAE Berry, 1910 (1812) Genus <i>Acrilla</i> H. Adams, 1860	Balasore Bay, Khira Gachha Madeli and Off Gopalpur coast <sup>17</sup> , Mahanadi estuary <sup>20</sup>
100. <i>Acrilla acuminata</i> (Sowerby II, 1844)	Khira Gachha Madeli (Jagatsingpur) <sup>17</sup> , Mahandi estuary <sup>20</sup> , Subamarekha estuary <sup>24</sup> , Talsari <sup>31</sup>
101. <i>Acrilla gracilis</i> H. Adams, 1873 Genus <i>Eglisia</i> Gray, 1847	Chandipur <sup>17</sup>
102. <i>Eglisia tricarinata</i> A. Adams & Reeve, 1850 Genus <i>Epitonium</i> Röding, 1798	Off Puri coast <sup>17</sup>
103. <i>Epitonium clathrus</i> Linnaeus 1758	Chilka Lake <sup>74</sup>
104. <i>Epitonium hamatulae</i> Preston, 1915	Chilka Lake <sup>12,17,18</sup>
105. <i>Epitonium immaculatum</i> (Sowerby II, 1844)	Chandipur <sup>17</sup>
106. <i>Epitonium latifasciatum</i> (Sowerby II, 1874)* Super family EULIMOIDEA Family EULIMIDAE Philippi, 1853 Genus <i>Niso</i> Risso, 1826	Talsari (Present collection)
107. <i>Niso pyramidelloides</i> Nevill, 1871 Genus <i>Melanella</i> Bowdich, 1822	Puri <sup>17</sup>
108. <i>Melanella oxytata</i> (Watson, 1883) Super family TRUNCATELLOIDEA Gray, 1840 Family CLENCHIELLIDAE D.W. Taylor, 1966 Genus <i>Coliracemata</i> Ponder, Fukuda & Hallan, 2014	Off Ganjam coast <sup>17</sup>
109. <i>Coliracemata innocens</i> (Preston, 1915) = <i>Cyclostrema (Tubiola) innocens</i> Preston, 1915 <sup>44</sup> Order SORBECONCHA Super family CERITHIOIDEA Fleming, 1822 Family CERITHIIDAE Fleming, 1822 Subfamily CERITHIINAE Fleming, 1822 Genus <i>Cerithium</i> Bruguière, 1789	Chilka Lake <sup>12</sup>
110. <i>Cerithium scabridum</i> Philippi, 1848 Family PLANAXIDAE Gray 1850 Subfamily PLANAXINAE Gray, 1850 Genus <i>Planaxis</i> Lamarck, 1822	Rushikulya estuary <sup>29</sup>
111. <i>Planaxis nigra</i> Quoy and Gaimard, 1833 Subfamily FOSSARINAE A. Adams, 1860 Genus <i>Chilkaia</i> Preston, 1915	Paradip Port <sup>17</sup> , Mahandi estuary <sup>20</sup>
112. <i>Chilkaia imitatrix</i> Preston, 1915 Family POTAMIDIDAE H. Adams & A. Adams, 1853 Genus <i>Cerithidea</i> Swainson, 1840	Chilka Lake <sup>12,17,18</sup>
113. <i>Cerithidea obtusa</i> (Lamarck, 1822) Genus <i>Pirenella</i> Gray, 1847	Entire Odisha coast <sup>17,20,24</sup>
114. <i>Pirenella alata</i> (Philippi, 1849) = <i>Cerithidea alata</i> (Philippi, 1849)	Subamarekha estuary <sup>24</sup>
115. <i>Pirenella cingulata</i> (Gmelin, 1791) = <i>Potamides (Tympanotonos) fluviatilis</i> (Potiez & Michaud, 1838) <sup>45</sup> Genus <i>Telescopium</i> Montfort, 1810	Entire Odisha coast <sup>12,13,17,18-20,23,24,30,31</sup>

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (*Contd.*)

116. <i>Telescopium telescopium</i> (Linnaeus, 1758) Genus <i>Terebralia</i> Swainson, 1840	Entire Odisha coast <sup>13,17,18-20,23,24,30,31</sup>
117. <i>Terebralia palustris</i> (Linnaeus, 1767) Family LITIOPIDAE Gray, 1847 Genus <i>Alaba</i> H. Adams & A. Adams, 1853	Khira Gachha Madeli (Jagatsingpur) and Gopalpur backwaters <sup>17</sup> , Mahandi estuary <sup>20</sup>
118. <i>Alaba blanfordi</i> A. Adams, 1862 Family SILIQUARIIDAE Anton, 1838 Genus <i>Tenagodus</i> Guettard, 1770 = <i>Siliquaria</i> Bruguiere, 1789 <sup>46</sup>	Off Puri coast <sup>17</sup> , Chilka Lake <sup>18</sup>
119. <i>Tenagodus anguinus</i> (Linnaeus, 1758)	Off Gopalpur coast <sup>17</sup>
120. <i>Tenagodus cumingii</i> Mörch, 1861	Off Gopalpur coast <sup>17</sup>
121. <i>Tenagodus tostus</i> Mörch, 1861	Off Gopalpur coast <sup>17</sup>
122. <i>Tenagodus trochlearis</i> Mörch, 1861 Family SCALIOLIDAE Jousseaume, 1912 Genus <i>Finella</i> A. Adams, 1860	Off Gopalpur coast <sup>17</sup>
123. <i>Finella virgata</i> (Philippi, 1849) = <i>Litiopa</i> ( <i>Alaba</i> ) <i>kempi</i> Preston, 1914; <i>L. (A.) copiosa</i> Preston, 1915 <sup>17</sup> Family THIARIDAE Gill, 1871 (1823) Genus <i>Thiara</i> Röding, 1798	Chilka Lake <sup>12,13,17,18</sup>
124. <i>Thiara lineata</i> Gray, 1828	Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup>
125. <i>Thiara granifera</i> (Lamarck, 1822)	Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup>
126. <i>Thiara scabra</i> (O.F. Müller, 1774)	Chilka Lake <sup>18,74</sup>
127. <i>Thiara torulosa</i> (Bruguère, 1789)	Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup>
128. <i>Thiara tuberculata</i> (O.F. Müller, 1774) Family TURRITELLIDAE Lovén, 1847 Super family TURRITELLINAE Lovén, 1847 Genus <i>Turritella</i> Lamarck, 1799	Chilka Lake <sup>18</sup>
129. <i>Turritella acutangula</i> (Linnaeus)	Entire Odisha coast <sup>17,20</sup>
130. <i>Turritella attenuata</i> Reeve, 1849	Subarnarekha estuary <sup>24</sup> , Talsari <sup>31</sup>
131. <i>Turritella columnaris</i> Kiener, 1843	Entire Odisha coast <sup>17,18-20,24</sup>
132. <i>Turritella fultoni</i> Melvill, 1897 Order NEOGASTROPODA Super family BUCCINOIDEA Rafinesque, 1815 Family BUCCINIDAE Rafinesque, 1815 Genus <i>Cantharus</i> Röding, 1798	Puri <sup>17</sup>
133. <i>Cantharus tranquebaricus</i> (Gmelin, 1791) Family COLUBRARIIDAE Dall, 1904 Genus <i>Colubraria</i> Schumacher, 1817	Balasar Bay and Black Pagoda (Konark) <sup>17</sup>
134. <i>Colubraria muricata</i> (Lightfoot, 1786) Family FASCIOLARIIDAE Gray, 1853 Genus <i>Fusinus</i> Rafinesque, 1815	Off Gopalpur <sup>17</sup>
135. <i>Fusinus colus</i> (Linnaeus, 1758) Family COLUMBELLIDAE Swainson, 1840 Genus <i>Anachis</i> H. Adams and A. Adams, 1853	Chandipur, Off Gopalpur and Chhatrapur <sup>17</sup>
136. <i>Anachis terpsichore</i> (G.B. Sowerby II, 1822) Family NASSARIIDAE Iredale, 1916 (1835) Subfamily CYLLENINAE Bellardi, 1882 Genus <i>Nassaria</i> Link, 1807	
137. <i>Nassaria nivea</i> (Gmelin, 1791)	Puri coast and Ganjam coast <sup>17</sup>
138. <i>Nassaria suturalis</i> (Adams, 1855) Sub family BULLIINAE Allmon, 1990 Genus <i>Bullia</i> Gray, 1833	Balasure Bay, Black pagoda (Konark), Puri and Ganjam coast <sup>17</sup>
139. <i>Bullia livida</i> Reeve, 1846	Chhatrapur and Puri <sup>17</sup>
140. <i>Bullia tranquebarica</i> (Röding, 1798)	Puri <sup>17</sup>
141. <i>Bullia vittata</i> (Linnaeus, 1767) Subfamily CYLLENINAE Bellardi, 1882 Genus <i>Cyllene</i> Gray, 1834	Entire Odisha coast <sup>13,16-18,20,23,29</sup>

*(Contd.)*

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (Contd.)

142. <i>Cyllene fuscata</i> A. Adams, 1851 Subfamily NASSARIINAE Iredale, 1916 (1835) Genus <i>Nassarius</i> Duméril, 1805	Off Chandipur and Puri <sup>17</sup> , Mahanadi estuary <sup>20</sup>
143. <i>Nassarius ariel</i> (Preston, 1910)	Balasore Bay <sup>17</sup>
144. <i>Nassarius callospira</i> (A. Adams, 1852)	Chhatrapur coast <sup>17</sup>
145. <i>Nassarius comptus</i> (A. Adams, 1852)	Odisha coast <sup>17</sup>
146. <i>Nassarius denegabilis</i> Preston, 1914	Chilka Lake <sup>11,12</sup>
147. <i>Nassarius dorsatus</i> (Röding, 1798)	Puri <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Talsari <sup>31</sup>
148. <i>Nassarius foveolatus</i> (Dunker, 1847)	Chilka Lake <sup>17,18</sup> , Subarnarekha estuary <sup>24</sup>
149. <i>Nassarius jacksonianus</i> (Quoy and Gaimard, 1833)	Puri <sup>17</sup> , Chilka Lake <sup>18</sup>
150. <i>Nassarius livescens</i> (Philippi, 1849)	Chilka Lake <sup>17,18</sup>
151. <i>Nassarius marratii</i> (E.A. Smith, 1876)	Chilka Lake <sup>12</sup>
152. <i>Nassarius nodifer</i> (Powys, 1835)*	Chandipur, Talsari (Present collection)
153. <i>Nassarius orissaensis</i> (Preston, 1914)	Chilka Lake <sup>11,12,17,18</sup>
154. <i>Nassarius pullus</i> (Linnaeus, 1758)	Chhatrapur coast <sup>17</sup>
155. <i>Nassarius stolatus</i> (Gmelin, 1791)	Entire Odisha coast <sup>17,18,20,24,31</sup>
156. <i>Nassarius subconstrictus</i> (Sowerby III, 1899)	Puri and Chilka Lake <sup>17,18</sup> , Mahanadi estuary <sup>20</sup>
157. <i>Nassarius subspinosus</i> (Lamarck, 1822) = <i>Nassa sistroidea</i> G. and H. Nevill <sup>47</sup>	Chilka Lake <sup>11,12</sup>
158. <i>Nassarius variegatus</i> (A. Adams, 1852)	Puri, Ganjam coast <sup>17</sup>
159. <i>Nassarius vittatus</i> (A. Adams, 1853) Genus <i>Tritia</i> Risso, 1826	Puri, Chilka Lake <sup>17,18</sup>
160. <i>Tritia burchardi</i> (Philippi, 1849) = <i>Nassa labecula</i> A. Adams <sup>47</sup>	Satpada (Chilka Lake) <sup>11</sup>
161. <i>Tritia obsoleta</i> (Say, 1822) Family MELONGENIDAE Gill, 1871 (1854) Genus <i>Volegalea</i> Iredale, 1938	Chilka Lake <sup>74</sup>
162. <i>Volegalea cochlidium</i> (Linnaeus, 1758) Genus <i>Hemifusus</i> Swainson, 1840	Entire Odisha coast <sup>17,18,20,24</sup>
163. <i>Hemifusus ternatanus</i> (Gmelin, 1791)* Super family MURICOIDEA Family MURICIDAE Rafinesque, 1815 Subfamily MURICINAE Rafinesque, 1815 Genus <i>Chicoreus</i> Montfort, 1810	Gopalpur (Present collection)
164. <i>Chicoreus microphyllus</i> (Lamarck, 1822)	Chandipur, Paradip, Puri <sup>17</sup>
165. <i>Chicoreus ramosus</i> (Linnaeus, 1758)* Genus <i>Murex</i> Linnaeus, 1758	Gopalpur (Present collection)
166. <i>Murex carbonnieri</i> (Jousseume, 1881)	Mahandi estuary <sup>20</sup> , Rushikulya estuary <sup>29</sup>
167. <i>Murex ternispina</i> Lamarck, 1822	Gopalpur (Present collection)
168. <i>Murex trapa</i> Röding, 1798	Mahandi estuary <sup>20</sup> , Gopalpur (Present collection)
169. <i>Murex tribulus</i> Linnaeus, 1758	Entire Odisha coast <sup>17,19,23,24,31</sup>
170. <i>Murex troscheli</i> Lischke, 1868 Genus <i>Naquetia</i> Jousseume, 1880	Bahuda estuary <sup>30</sup>
171. <i>Naquetia barclayi</i> (Reeve, 1858) = <i>Naquetia annandalei</i> (Preston, 1910) <sup>48</sup> Subfamily RAPANINAE Gray, 1853 Genus <i>Cronia</i> H. Adams & A. Adams, 1853	Off Gopalpur coast <sup>17</sup>
172. <i>Cronia konkanensis</i> (Melvill, 1893)*	Gopalpur (Present collection)
173. <i>Cronia subnodulosa</i> (Melvill, 1893) Genus <i>Indothais</i> Claremont, Vermeij, Williams & Reid, 2013	Mahandi estuary <sup>20</sup>
174. <i>Indothais lacera</i> (Born, 1778) = <i>Thais carinifera</i> (Lamarck, 1822) <sup>49</sup>	Entire Odisha coast <sup>11,17,18,20,24,31</sup>
175. <i>Indothais blanfordi</i> (Melvill, 1893)	Talsari <sup>31</sup>
176. <i>Indothais tissoti</i> (Petit, 1852) Genus <i>Purpura</i> Bruguière, 1789	Paradip coast <sup>17</sup> , Mahandi estuary <sup>20</sup>
177. <i>Purpura panama</i> (Röding, 1798)*	Gopalpur (Present collection)
178. <i>Purpura bufo</i> Lamarck, 1822 Genus <i>Rapana</i> Schumacher, 1817	Gopalpur coast <sup>17</sup> , Mahandi estuary <sup>20</sup>

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (*Contd.*)

179. <i>Rapana rapiformis</i> (Born, 1778)	Balasore Bay, Khira Gachha Madeli, Puri <sup>17</sup> ; Mahandi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup>
Subfamily ERGALATAXINAE Kuroda, Habe & Oyama, 1971	
Genus <i>Drupella</i> Thiele, 1925	
180. <i>Drupella rugosa</i> (Born, 1778)	Purin coast, Ganjam coast <sup>17</sup>
Genus <i>Ergalatax</i> Iredale, 1931	
181. <i>Ergalatax contracta</i> (Reeve, 1846)	Ganjam coast <sup>17</sup> , Chilka Lake <sup>18</sup>
Genus <i>Morula</i> Schumacher, 1817	
182. <i>Morula biconica</i> (Blainville, 1832)	Ganjam coast <sup>17</sup>
183. <i>Morula granulata</i> (Ducloux, 1832)	Ganjam coast <sup>17</sup>
Family BABYLONIIDAE Kuroda, Habe & Oyama, 1971	
Genus <i>Babylonea</i> Schlüter, 1838	
184. <i>Babylonea spirata</i> (Linnaeus, 1758)	Entire coast of Odisha <sup>17,19,20,23</sup>
185. <i>Babylonea zeylanica</i> (Bruguière, 1789)*	Gopalpur (Present collection)
Family COSTELLARIIDAE MacDonald, 1860	
Genus <i>Costellaria</i> Swainson, 1840	
186. <i>Costellaria mandirella</i> Ray, 1968	Puri <sup>17</sup>
Family MARGINELLIDAE Fleming, 1828	
Genus <i>Marginella</i> Lamarck, 1799	
187. <i>Marginella angustata</i> Sowerby II, 1846	Ganjam coast <sup>17</sup>
188. <i>Marginella ventriosa</i> Hadley, 1903	Puri, Gopalpur <sup>17</sup>
Genus <i>Cryptospira</i> Hinds, 1844	
189. <i>Cryptospira elegans</i> (Gmelin, 1791)	Chilka Lake <sup>18</sup>
Family MITRIDAE Swainson, 1831	
Genus <i>Cancilla</i> Swainson, 1840	
190. <i>Cancilla interlirata</i> (Reeve, 1844)	Puri <sup>17</sup>
Genus <i>Neocancilla</i> Cernohorsky, 1970	
191. <i>Neocancilla circula</i> (Kiener, 1838)	Chhatrapur <sup>17</sup>
Genus <i>Scabricola</i> Swainson, 1840	
192. <i>Scabricola fusca</i> (Swainson, 1824)	Puri <sup>17</sup>
Family VOLUTIDAE Rafinesque, 1815	
Subfamily VOLUTINAE Rafinesque, 1815	
Genus <i>Harpulina</i> Dall, 1906	
193. <i>Harpulina lapponica</i> (Linnaeus, 1767)*	Gopalpur (Present collection)
Subfamily AMORIINAE Gray, 1857	
Genus <i>Melo</i> Broderip in Sowerby I, 1826	
194. <i>Melo melo</i> (Lightfoot, 1786)	Talsari <sup>31</sup>
Family HARPIDAE Bronn, 1849	
Genus <i>Harpa</i> Röding, 1798	
195. <i>Harpa davidis</i> (Röding, 1798)	Khiragachha Madeli <sup>17</sup> , Mahanadi estuary <sup>20</sup>
196. <i>Harpa major</i> Röding, 1798	Gopalpur <sup>29</sup> ; Off shore coast of Odisha <sup>32</sup>
Super family OLIVOIDEA Latreille, 1825	
Family OLIVIDAE Latreille, 1825	
Genus <i>Agaronia</i> Gray, 1839	
197. <i>Agaronia gibbosa</i> (Born, 1778)	Entire coast of Odisha <sup>16-18,20,23,24,29-31</sup>
198. <i>Agaronia nebulosa</i> (Lamarck, 1822)	Puri <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Talsari <sup>31</sup>
Genus <i>Ancilla</i> Lamarck, 1799	
199. <i>Ancilla ampla</i> (Gmelin, 1791)	Chandipur, Talburai, Balramguri, Chhatrapur <sup>17</sup> ; Subarnarekha estuary <sup>24</sup> ; Talsari <sup>31</sup>
Genus <i>Oliva</i> Bruguière, 1789	
200. <i>Oliva oliva</i> (Linnaeus, 1758)	Entire coast of Odisha <sup>17,18-20,23,29-31</sup>
201. <i>Oliva vidua</i> (Röding, 1798)	Puri, Chhatrapur <sup>17</sup>
Super family CONOIDEA	
Family CONIDAE Fleming, 1822	
Genus <i>Conus</i> Linnaeus, 1758	
202. <i>Conus bayani</i> Jousseaume, 1872*	Gopalpur (Present collection)
203. <i>Conus betulinus</i> Linnaeus, 1758	Odisha coast <sup>17</sup>
204. <i>Conus coromandelicus</i> E.A.Smith, 1894*	Gopalpur (Present collection)

*(Contd.)*

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (Contd.)

205. <i>Conus figulinus</i> Linnaeus, 1758	Odisha coast <sup>17</sup>
206. <i>Conus hyaena</i> Hwass in Bruguière, 1792	Chilka Lake <sup>74</sup>
207. <i>Conus inscriptus</i> Reeve, 1843	Off Puri coast <sup>17</sup> ; Rushikulya and Bahuda estuary <sup>23</sup>
208. <i>Conus striatus</i> Linnaeus, 1758	Odisha coast <sup>16</sup>
Family TEREBRIDAE Mörch, 1852	
Genus <i>Hastula</i> H. Adams & A. Adams, 1853	
209. <i>Hastula bacillum</i> (Deshayes, 1859)	Gopalpur, Puri, Khira Gachha Madeli <sup>17</sup> , Mahanadi estuary <sup>20</sup>
210. <i>Hastula strigilata</i> (Linnaeus, 1758)	Gopalpur, Chhatrapur, Puri, Konark, Khira Gachha Madeli <sup>17</sup> , Mahanadi estuary <sup>20</sup>
211. <i>Hastula tenera</i> (Hinds, 1844)	Subarnarekha estuary <sup>24</sup>
212. <i>Hastula trailli</i> Deshayes, 1859	Gopalpur, Puri <sup>17</sup>
Genus <i>Euterebra</i> Cotton & Godfrey, 1932	
213. <i>Euterebra tantilla</i> (E. A. Smith, 1873) = <i>Terebra asiatica</i> Ray, 1968 <sup>50</sup>	Off Puri coast <sup>17</sup>
214. <i>Euterebra padangensis</i> (Thiele, 1925) = <i>Terebra durgella</i> Ray, 1968 <sup>51</sup>	Off Puri coast <sup>17</sup>
Genus <i>Granuliterebra</i> Oyama, 1961	
215. <i>Granuliterebra tricineta</i> (E. A. Smith, 1877)	Off Puri coast <sup>17</sup>
Family TURRIDAE	
Genus <i>Asthenotoma</i> Harris & Burrows, 1891	
216. <i>Asthenotoma vertebrata</i> (E.A. Smith, 1875)	Off Puri coast <sup>17</sup>
Genus <i>Gemmula</i> Weinkauff, 1875	
217. <i>Gemmula speciosa</i> (Reeve, 1842)	Ganjam coast <sup>17</sup>
218. <i>Gemmula vagata</i> (E.A. Smith, 1895)	Paradip <sup>27</sup>
Genus <i>Lienardia</i> Jousseume, 1884	
219. <i>Lienardia cosmia</i> Winckworth, 1940	Off Puri coast <sup>17</sup>
220. <i>Lienardia graveyi</i> Winckworth, 1940	Off Puri coast <sup>17</sup>
Genus <i>Lophiotoma</i> Casey, 1904	
221. <i>Lophiotoma indica</i> (Röding, 1798)	Puri, Chhatrapur <sup>17</sup> , Rushikulya estuary <sup>19</sup>
Family DRILLIIDAE Olsson, 1964	
Genus <i>Drillia</i> Gray, 1838	
222. <i>Drillia euchores</i> Melvill	Off Puri coast <sup>17</sup>
223. <i>Drillia ganjamensis</i> Preston, 1910	Ganjam coast <sup>17</sup>
224. <i>Drillia major</i> (Reeve)	Off Puri coast <sup>17</sup>
Family MANGELIIDAE P.Fischer, 1883	
Genus <i>Pseudorhaphitoma</i> Boettger, 1895	
225. <i>Pseudorhaphitoma fairbanki</i> (G. Nevill & H. Nevill, 1875)	Off Puri coast <sup>17</sup>
Genus <i>Mangelia</i> Risso, 1826	
226. <i>Mangelia fulvocincta</i> Nevill	Puri coast <sup>17</sup>
Family CLAVATULIDAE Gray, 1853	
Genus <i>Turricula</i> Schumacher, 1817	
227. <i>Turricula javana</i> (Linnaeus, 1767)	Entire coast of Odisha <sup>17,20,23,24,31</sup>
228. <i>Turricula tornata</i> (Dillwyn, 1817)	Puri, Chhatrapur <sup>17</sup> , Mahanadi estuary <sup>20</sup>
229. <i>Turricula tornata fulminata</i> (Kiener, 1839)	Off Devi river mouth <sup>17</sup>
Genus <i>Ptychobela</i> Thiele, 1925	
230. <i>Ptychobela nodulosa</i> (Gmelin, 1791) = <i>Brachytoma crenularis</i> (Lamarck, 1822) <sup>52</sup>	Chandipur, Konark, Ganjam coast <sup>17</sup>
Super family CANCELLARIOIDEA	
Family CANCELLARIIDAE Forbes & Hanely, 1851	
Genus <i>Cancellaria</i> Lamarck, 1799	
231. <i>Cancellaria asperella</i> Lamarck, 1822	Puri <sup>17</sup>
232. <i>Cancellaria oblonga</i> Sowerby I, 1825	Puri <sup>17</sup>
Genus <i>Merica</i> H. Adams & A. Adams, 1854	
233. <i>Merica elegans</i> (G.B. Sowerby I, 1822)	Chilka Lake <sup>18,74</sup>
Genus <i>Scalptia</i> Jousseume, 1887	
234. <i>Scalptia nassa</i> (Gmelin, 1791) = <i>Trigonostoma lamellosa</i> (Hinds)	Odisha coast <sup>17</sup>

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (*Contd.*)

235. <i>Scalptia scalariformis</i> (Lamarck, 1822)	Subarnarekha estuary <sup>24</sup>
Order HETEROBRANCHIA	
Super family ARCHITECTONICOIDEA	
Family ARCHITECTONICIDAE	
Genus <i>Architectonica</i> Röding, 1798	
236. <i>Architectonica laevigata</i> (Lamarck, 1816)	Entire Odisha coast <sup>17,19,20,29,31</sup>
237. <i>Architectonica perspectiva</i> (Linnaeus, 1755)	Subarnarekha estuary <sup>24</sup>
Super family PYRAMIDELLOIDEA Gray, 1840	
Family PYRAMIDELLIDAE Gray, 1840	
Genus <i>Odostomia</i> Fleming, 1813	
238. <i>Odostomia babylonica</i> Winckworth, 1940	Off Puri coast <sup>17</sup>
239. <i>Odostomia chilkaensis</i> Preston, 1914	Chilka Lake <sup>11,12,17,18</sup>
240. <i>Odostomia oxia</i> Watson, 1886	Subarnarekha estuary <sup>24</sup>
Genus <i>Pyramidella</i> Lamarck, 1799	
241. <i>Pyramidella pulchella</i> (A. Adams, 1854)	Odisha coast <sup>17</sup>
Genus <i>Pyrgulina</i> A. Adams, 1863	
242. <i>Pyrgulina ecclesia</i> (Preston, 1915)	Chilka Lake <sup>12,17,18</sup>
243. <i>Pyrgulina nadiensis</i> (Preston, 1915)	Chilka Lake <sup>12,17,18</sup>
Genus <i>Syrnola</i> A. Adams, 1860	
244. <i>Syrnola dubiosa</i> Nevill, 1871	Puri <sup>17</sup>
245. <i>Turbonilla crichtoni</i> Winckwerth, 1940	Puri <sup>17</sup>
246. <i>Turbonilla kemp</i> Ray, 1968	Off Puri coast <sup>17</sup>
247. <i>Turbonilla materna</i> Melvill, 1912	Off Puri coast <sup>17</sup>
248. <i>Turbonilla prashadi</i> Ray, 1968	Off Puri coast <sup>17</sup>
249. <i>Turbonilla prestoni</i> Ray, 1968	Off Puri coast <sup>17</sup>
250. <i>Turbonilla puriensis</i> Ray, 1968	Off Puri coast <sup>17</sup>
251. <i>Turbonilla rambhaensis</i> (Preston, 1914)	Chilka Lake <sup>11,12,17,18</sup>
Genus <i>Quirella</i> Laseron, 1959	
252. <i>Quirella humilis</i> (Preston, 1905) = <i>Chrysallida (Mormula) humilis</i> Preston <sup>53</sup>	Chilka Lake <sup>12,17,18</sup>
Family AMATHINIDAE Ponder, 1987	
Genus <i>Amathina</i> Gray, 1842	
253. <i>Amathina tricarinata</i> (Linnaeus, 1767)	Gopalpur coast <sup>17</sup>
Super family RINGICULOIDEA	
Family RINGICULIDAE	
Genus <i>Ringicula</i> Deshayes, 1838	
254. <i>Ringicula encarpiferens</i> De Folin, 1878	Odisha coast <sup>17</sup>
255. <i>Ringicula propinquans</i> Hinds, 1844	Off Puri coast <sup>17</sup>
Order CEPHALASPIDEA	
Super family HAMINOEOIDEA	
Family HAMINOEIDAE Pilsbry, 1895	
Genus <i>Aliculastrum</i> Pilsbry, 1896	
256. <i>Aliculastrum cylindriticus</i> (Helbling, 1779) = <i>Atyis (Aliculastrum) cylindriticus</i> Helbling <sup>54</sup>	Puri coast <sup>17</sup>
Genus <i>Haminoea</i> Turton & Kingston (in Carrington), 1830	
257. <i>Haminoea crocata</i> Pease, 1860	Chilka Lake <sup>11,12,17,18</sup> , Subarnarekha estuary <sup>24</sup>
Super family PHILINOIDEA	
Family AGLAJIDAE Pilsbry, 1895 (1847)	
Genus <i>Melanochlamys</i> Cheeseman, 1881	
258. <i>Melanochlamys</i> sp.	Subarnarekha estuary <sup>24</sup>
Family CYLICHNIDAE	
Genus <i>Tornatina</i> A. Adams, 1850	
259. <i>Tornatina estriata</i> Preston, 1914	Chilka Lake <sup>11,12,17,18</sup>
260. <i>Tornatina soror</i> Preston, 1914	Chilka Lake <sup>11</sup>
Family RETUSIDAE Thiele, 1925	
Genus <i>Retusa</i> T. Brown, 1827	
261. <i>Retusa pyramidata</i> (A. Adams, 1850)	Off Puri coast <sup>17</sup>
Order HYGROPHILA	
Family PLANORBIDAE Rafinesque, 1815	
Genus <i>Indoplanorbis</i> Annandale & Prashad, 1920	

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (Contd.)

262. <i>Indoplanorbis exustus</i> (Deshayes, 1834)	Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup>
Order EUPULMONATA	
Super family ELLOBIOIDEA L. Pfeiffer, 1854 (1822)	
Family ELLOBIIDAE L. Pfeiffer, 1854 (1822)	
Genus <i>Cassidula</i> Férussac, 1821	
263. <i>Cassidula nucleus</i> (Gmelin, 1971)	Subarnarekha estuary <sup>24</sup>
Genus <i>Ellobium</i> Röding, 1798	
264. <i>Ellobium aurisjudae</i> (Linnaeus, 1758)	Chnadipur, Balaramguri <sup>17</sup>
265. <i>Ellobium gangeticum</i> (Pfeiffer, 1855)	Khira Gachha Madeli, False Point <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup>
Genus <i>Melampus</i> Montfort, 1810	
266. <i>Melampus ceylonicus</i> (Petit de la Saussaye, 1843)	Chilka Lake <sup>18</sup>
267. <i>Melampus pulchella</i> (Petit, 1842)*	Talsari (Present collection)
Genus <i>Pythia</i> Röding, 1798	
268. <i>Pythia plicata</i> (Férussac, 1821)	Paradip, False Point <sup>17</sup> ; Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup>
Order SYSTELLOMMATOPHORA	
Super family ONCHIDIOIDEA Rafinesque, 1815	
Family ONCHIDIIDAE Rafinesque, 1815	
Genus <i>Peronia</i> Fleming, 1822	
269. <i>Peronia verruculata</i> (Cuvier, 1830)	Mahanadi estuary <sup>17</sup> ; Mahanadi estuary <sup>20</sup> , Talsari(Present collection)
Genus <i>Onchidium</i> Buchannan, 1800	
270. <i>Onchidium tenerum</i> Stoliczka, 1869	Subarnarekha estuary <sup>24</sup> ; Mahanadi estuary <sup>20</sup> , Talsari(Present collection)
271. <i>Onchidium tigrinum</i> Stoliczka, 1869*	Talsari(Present collection)
272. <i>Onchidium typhae</i> Buchanan, 1800	Subarnarekha estuary <sup>24</sup> ; Talsari(Present collection)
Order SACOGLOSSA	
Super family PLACOBANCHACEA Gray, 1840	
Family PLACOBANCHIDAE Gray, 1840	
Genus <i>Elysia</i> Risso, 1818	
273. <i>Elysia chilkaensis</i> Elliot, 1916	Chilka Lake <sup>18</sup>
Super family LIMAPONTIOIDEA Gray, 1847	
Family LIMAPONTIIDAE Gray, 1847	
Genus <i>Ercolania</i> Trinchese, 1872	
274. <i>Ercolania pica</i> (Annandale and Prashad, 1922) = <i>Stiliger pica</i> Annandale and Prashad, 1922 <sup>55</sup>	Chilka Lake <sup>18</sup>
Order NUDIPLERA	
Super family PLEUROBRANCHOIDEA Gray, 1827	
Family PLEUROBRANCHIDAE Pilsbry, 1896	
Genus <i>Pleurobranchea</i> Leue, 1813	
275. <i>Pleurobranchea</i> sp.	Subarnarekha estuary <sup>24</sup>
Order CLADOBRANCHIA	
Super family ARMINOIDEA Iredale & O'Donoghue, 1923 (1841)	
Family ARMINIDAE Iredale & O'Donoghue, 1923 (1841)	
Genus <i>Armina</i> Rafinesque, 1814	
276. <i>Armina babai</i> (Tchang, 1934)	Talasari, Suabrnarekha estuary <sup>28</sup>
277. <i>Armina</i> sp.	Subarnarekha estuary <sup>24</sup>
Super family FIONOIDEA Gray, 1857	
Family TERGIPEDIDAE Bergh, 1889	
Genus <i>Cuthona</i> Alder & Hancock, 1855	
278. <i>Cuthona henrici</i> Eliot, 1916	Chilka Lake <sup>18</sup>
Class SCAPHOPODA Bronn, 1862	
Order DENTALIIDA da Costa, 1776	
Family DENTALIIDAE Children, 1834	
Genus <i>Dentalium</i> Linnaeus, 1758	
279. <i>Dentalium octangulatum</i> Donovan, 1904	Puri, Khira Gachha Madeli, Lions Rump <sup>17</sup> , Mahanadi estuary <sup>20</sup>
Class BIVALVIA Linnaeus 1758	
Order NUCULOIDA Dall, 1889	
Super family NUCULOIDEA Gray, 1824	
Family NUCULIDAE Gray, 1824	
Genus <i>Ennucula</i> Iredale, 1931	

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (*Contd.*)

280. <i>Ennucula convexa</i> (G. B. Sowerby I, 1833) = <i>Nucula</i> ( <i>Leionucula</i> ) <i>convexa</i> Sowerby <sup>56</sup> Genus <i>Nucula</i> Lamarck, 1799	Off Puri, Gopalpur <sup>17</sup>
281. <i>Nucula mitralis</i> Hinds, 1843 Order NUCULANIDA Carter, D. C. Campbell & M. R. Campbell, 2000 Super family NUCULANOIDEA H. Adams & A. Adams, 1858 (1854) Family NUCULANIDAE H. Adams & A. Adams, 1858 (1854) Genus <i>Nuculana</i> Link, 1807	Gopalpur, Puri <sup>17</sup>
282. <i>Nuculana robsoni</i> Prashad, 1932 Order MYTILIDA Férussac, 1822 Superfamily MYTILOIDEA Rafinesque, 1815 Family MYTILIDAE Rafinesque, 1815 Genus <i>Amygdalum</i> Megerle von Mühlfeld, 1811	Puri <sup>17</sup>
283. <i>Amygdalum watsoni</i> (E.A. Smith, 1885) Genus <i>Brachidontes</i> Swainson, 1840	Off Gopalpur <sup>17</sup>
284. <i>Brachidontes striatulus</i> (Hanley, 1843) = <i>Modiola emerginata</i> Benson <sup>56</sup> Genus <i>Choromytilus</i> Soot-Ryen, 1952	Entire Odish coast <sup>11,17,18,20,24,31,74</sup>
285. <i>Choromytilus chorus</i> (Molina, 1782)* Genus <i>Modiolus</i> Lamarck, 1799	Paradip (Present collection)
286. <i>Modiolus metcalfei</i> Hanely, 1843*	Paradip (Present collection)
287. <i>Modiolus moduloides</i> (Röding, 1798)*	Paradip (Present collection)
288. <i>Modiolus philippinarum</i> (Hanley, 1843)	Chandipur <sup>17</sup> , Chilka Lake <sup>17,18</sup>
289. <i>Modiolus tulipa</i> Lamarck, 1819	Subarnarekha estuary <sup>24</sup>
290. <i>Modiolus undulatus</i> (Linnaeus, 1758) Genus <i>Musculus</i> Röding, 1798	Chilka Lake <sup>11,12,17,18,74</sup> , Talsari <sup>31</sup>
291. <i>Musculus cumingianus</i> (Reeve, 1857) Genus <i>Perna</i> Philipsson, 1788	Off Gopalpur <sup>17</sup>
292. <i>Perna perna</i> Linnaeus, 1758	Chilka Lake <sup>74</sup>
293. <i>Perna viridis</i> (Linnaeus, 1758) = <i>Mytilus smaragdinus</i> Gmelin, 1791 <sup>56</sup> Order ARCIDA Gray 1854 Superfamily ARCOIDEA Lamarck, 1809 Family ARCIDAE Lamarck, 1809 Genus <i>Anadara</i> Gray, 1847	Entire Odish coast <sup>12,17,18,20,24,29-31,74</sup>
294. <i>Anadara antiquata</i> (Linnaeus, 1758)	Bahuda estuary <sup>29</sup> , Talsari <sup>31</sup>
295. <i>Anadara craticulata</i> (Nyst, 1848) = <i>Scapharca clathrata</i> (Reeve) <sup>56</sup>	Chandipur, Ganjam coast <sup>17</sup>
296. <i>Anadara cornea</i> (Reeve, 1844)	Talsari <sup>31</sup>
297. <i>Anadara inaequalis</i> (Bruguière, 1789)	Chandipur, Balaramguri, Konark, Chhatrapur <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup> , Talsari <sup>31</sup>
298. <i>Anadara indica</i> (Gmelin, 1791) = <i>Scapharca deyrollei</i> (Jousseume) <sup>56</sup>	Entire coast <sup>17,18,20,23,24,31</sup>
299. <i>Anadara pilula</i> (Reeve, 1843)* Genus <i>Mesocibota</i> Iredale, 1939	Gopalpur (Present collection)
300. <i>Mesocibota bistrigata</i> (Dunker, 1866) = <i>Barbatia (Calloarca) bistrigata</i> (Dunker) <sup>56</sup> Genus <i>Barbatia</i> Gray, 1842	Chandipur, Konark, Ganjam coast <sup>17</sup>
301. <i>Barbatia helblingi</i> (Bruguière, 1789) Genus <i>Tegillarca</i> Iredale, 1939	Ganjam coast <sup>17</sup>
302. <i>Tegillarca granosa</i> (Linnaeus, 1758)	Entire Odisha coast <sup>11,17,18,20,23,24,31,74</sup>
303. <i>Tegillarca nodifera</i> (Martens, 1860)*	Gopalpur, Talsari (Present collection)
304. <i>Tegillarca rhombea</i> (Born, 1778) Family CUCULLAEIDAE Stewart, 1930 Genus <i>Cucullaea</i> Lamarck, 1801	Entire coast <sup>17,18,20,23,30</sup>
305. <i>Cucullaea labiata</i> (Lightfoot, 1786) Family NOETIIDAE Stewart, 1930 Genus <i>Striarca</i> Conrad, 1862	Ganjam coast <sup>17</sup>

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (Contd.)

306. <i>Striarca lactea</i> (Linnaeus, 1758) Family GLYCYMERIDIDAE Dall, 1908 Genus <i>Glycymeris</i> da Costa, 1778	Chilka Lake <sup>12,17,18,74</sup> , False point <sup>17</sup> , Mahanadi estuary <sup>20</sup>
307. <i>Glycymeris tenuicostata</i> (Reeve, 1843)  Order PTERIIDA Newell, 1965 Super family PTERIOIDEA Gray, 1847 (1820) Family PTERIIDAE Gray, 1847 (1820) Genus <i>Pteria</i> Scopoli, 1777	Paradip, Puri, Kanark <sup>17</sup> , Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup> , Mahanadi estuary <sup>20</sup>
308. <i>Pteria smithi</i> (Preston, 1910) Family ISOGNOMONIDAE Woodring, 1925 (1828) Genus <i>Isognomon</i> Lightfoot, 1786	Off Gopalpur <sup>17</sup>
309. <i>Isognomon isognomum</i> (Linnaeus, 1758)	Off Ganjam coast <sup>17</sup>
310. <i>Isognomon legumen</i> (Gmelin, 1791) Super family PINNOIDEA Leach, 1819 Family PINNIDAE Leach, 1819 Genus <i>Pinna</i> Linnaeus, 1758	Off Ganjam coast <sup>17</sup>
311. <i>Pinna bicolor</i> Gmelin, 1791* Order OSTREIDA Férussac, 1822 Super family OSTREOIDEA Rafinesque, 1815 Family OSTREIDAE Rafinesque, 1815 Genus <i>Crassostrea</i> Sacco, 1897	Talsari <sup>31</sup>
312. <i>Crassostrea cuttackensis</i> (Newton and Smith, 1912)	Entire coast <sup>17-20,23,24,30,31</sup>
313. <i>Crassostrea gigas</i> (Thunberg, 1793)*	Gopalpur (Present collection)
314. <i>Crassostrea gryphoids</i> (Schlotheim, 1813) Genus <i>Dendostrea</i> Swainson, 1835	Subarnarekha estuary <sup>24</sup>
315. <i>Dendostrea frons</i> (Linnaeus, 1758) = <i>Lopha (Lopha)frons</i> (Linnaeus) <sup>57</sup>	Off Odisha coast <sup>17</sup>
316. <i>Dendostrea senegalensis</i> (Gmelin, 1791) = <i>Crassostrea lacerata</i> (Hanley) <sup>57</sup> Genus <i>Ostrea</i> Linnaeus, 1758	Chandipur, Balaramguri <sup>17</sup>
317. <i>Ostrea futamiensis</i> Seki, 19129 Genus <i>Saccostrea</i> Dollfus & Dautzenberg, 1920	Ganjam coast <sup>17</sup>
318. <i>Saccostrea cucullata</i> (Born, 1778) Genus <i>Nanostrea</i> Harry, 1985	Entire Odisha coast <sup>17,18,20,23,24,31</sup>
319. <i>Nanostrea fluctigera</i> (Jousseau in Lamy, 1925) = <i>Saccostrea deformis</i> (Lamarck) <sup>56</sup> Family GRYPHAEIDAE Vialov, 1983 Genus <i>Hyotissa</i> Stenzel, 1971	Balaswar Bay, Black Pagoda, Off Gopalpur coast <sup>17</sup>
320. <i>Hyotissa hyotis</i> (Linnaeus, 1758)	Chandipur, Black Pagoda, Chilka Lake <sup>18</sup> , Gopalpur <sup>17</sup>
321. <i>Hyotissa numisma</i> (Lamarck, 1819) = <i>Ostrea lentiginosa</i> Sowerby <sup>56</sup> Order PECTINIDA Gray, 1854 Super family ANOMIOIDEA Rafinesque, 1815 Family ANOMIIDAE Rafinesque, 1815 Genus <i>Anomia</i> Linnaeus, 1758	Odisha coast <sup>17</sup>
322. <i>Anomia achaeus</i> Gray, 1850 = <i>Anomia scabra</i> Reeve <sup>58</sup>	Chandipur <sup>17</sup> , Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup> , Subarnarekha estuary <sup>24</sup>
323. <i>Anomia ephippium</i> Linnaeus, 1758* Genus <i>Enigmonia</i> Iredale, 1918	Gopalpur (Present collection)
324. <i>Enigmonia aenigmatica</i> (Holten, 1802)  Family PLACUNIDAE Rafinesque, 1815 Genus <i>Placuna</i> Lightfoot, 1786	Puri, False point, Khira Gachha Madeli <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup>
325. <i>Placuna plecenta</i> (Linnaeus, 1758)  Super family PECTINOIDEA Rafinesque, 1815 Family PECTINIDAE Rafinesque, 1815 Genus <i>Amusium</i> Röding, 1798	Mahanadi estuary <sup>20</sup> , Chilka Lake <sup>18</sup> , Rushikulya and Bahuda estuary <sup>23</sup>

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (*Contd.*)

326. <i>Amusium pleuronectes</i> (Linnaeus, 1758) Genus <i>Minnivola</i> Iredale, 1939	Off Gopalpur coast, Devi river mouth <sup>17</sup> , Mahanadi estuary <sup>20</sup>
327. <i>Minnivola pyxidata</i> (Born, 1778) = <i>Pecten (Pecten) pyxidatus</i> (Born) <sup>59</sup> Genus <i>Volachlamys</i> Iredale, 1939	Chandipur <sup>17</sup>
328. <i>Volachlamys tranquebaricas</i> (Gmelin, 1791) Family SPONDYLIDAE Gray, 1826 Genus <i>Spondylus</i> Linnaeus, 1758	Chandipur, Puri, Pardip, Gopalpur <sup>17</sup> , Mahanadi estuary <sup>20</sup>
329. <i>Spondylus nicobaricus</i> Schreibers, 1793 = <i>Spondylus hyslrix</i> Roeding <sup>60</sup>	Ganjam coast <sup>17</sup>
330. <i>Spondylus layardi</i> Reeve, 1856 Order LIMIDA Moore, 1952 Super family LIMOIDEA Rafinesque, 1815 Family LIMIDAE Rafinesque, 1815 Genus <i>Ctenoides</i> Mörch, 1853	Konark coast <sup>17</sup>
331. <i>Ctenoides annulatus</i> (Lamarck, 1819) Order UNIONOIDA Gray, 1854 Super family UNIONOIDE Rafinesque, 1820 Family UNIONIDAE Rafinesque, 1820 Genus <i>Parreysia</i> Conrad, 1853	Ganjam coast <sup>17</sup> , Chilka Lake <sup>18</sup>
332. <i>Parreysia corrugata</i> (Müller, 1774) Order CARDITIDA Dall, 1889 Super family CARDITOIDEA Ferrusac, 1822 Family CARDITIDAE Ferrusac, 1822 Genus <i>Cardita</i> Bruguière, 1792	Rushikulya estuary <sup>19</sup>
333. <i>Cardita senegalensis</i> Reeve, 1843* Genus <i>Cardites</i> Link, 1807	Gopalpur (Present collection)
334. <i>Cardites antiquatus</i> (Linnaeus, 1758)	Entire coast of Odisha <sup>17,18-20</sup>
335. <i>Cardites bicolor</i> (Lamarck, 1819) Order VENERIDA Gray, 1854 Super family ARCTICOIDEA Newton, 1891 (18440) Family TRAPEZIDAE Lamy, 1920 Genus <i>Neotrapezium</i> Habe, 1951	Rushikulya estuary <sup>29</sup> , Gopalpur (Present collection)
336. <i>Neotrapezium sublaevigatum</i> (Lamarck, 1819) = <i>Petricula esculpturata</i> Preston, 1815 <sup>56</sup> Super family CARDIOIDEA Lamarck, 1809 Family CARDIIDAE Lamarck, 1809 Sub family TRACHYCARDIINAE Stewart, 1930 Genus <i>Acrosterigma</i> Dall, 1900	Chilka Lake <sup>12,17,18</sup>
337. <i>Acrosterigma variegatum</i> (G. B. Sowerby II, 1840) = <i>Trachycardium variegatum</i> (Sowerby) <sup>61</sup> Genus <i>Papyridea</i> Swainson, 1840	Khiragachha Madeli, Puri, Gopalpur <sup>17</sup> , Mahanadi estuary <sup>20</sup>
338. <i>Papyridea lata</i> (Born, 1778) = <i>Acanthocardia lata</i> (Born) <sup>62</sup> Sub family LAEVICARDIINAE Keen, 1951 Genus <i>Fulvia</i> J. E. Gray, 1853	Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup>
339. <i>Fulvia australis</i> (G.B. Sowerby II, 1834)*	Gopalpur (Present collection)
340. <i>Fulvia aperta</i> (Bruguière, 1789) = <i>Laevicardium (Fulvia) apertum</i> (Bruguière) & <i>Cardium (Fulvia) rugatum</i> <sup>63</sup> Sub family CARDIINAE Lamarck, 1809 Genus <i>Vepricardium</i> Iredale, 1929	Chilka Lake <sup>12,17,18</sup> , Talsari <sup>31</sup>
341. <i>Vepricardium coronatum</i> (Schröter, 1786) = <i>Acanthocardia coronata</i> (Schroeter) <sup>63</sup> Sub family FRAGINAE Stewart, 1930 Genus <i>Lunulicardia</i> J.E. Gray, 1853	Chandipur, Paradip, Puri, Konark <sup>17</sup> , Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup> , Mahanadi estuary <sup>20</sup>
342. <i>Lunulicardia retusa</i> (Linnaeus, 1767)* Super family CHAMOIDEA Lamarck, 1809 Family CHAMIDAE Lamarck, 1809 Genus <i>Chama</i> Linnaeus, 1758	Chilka New Mouth (Present collection)

*(Contd.)*

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (Contd.)

343. <i>Chama lazarus</i> Linnaeus, 1758	Ganjam coast <sup>17</sup>
344. <i>Chama pacifica</i> Broderip, 1835 = <i>Chama reflexa</i> Reeve <sup>64</sup> Super family CYRENOIDEA Gray, 1840 Family CYRENIDAE Gray, 1840 Genus <i>Polymesoda</i> Rafinesque, 1820	Off Ganjam coast, Balaswar Bay, Puri <sup>17</sup>
345. <i>Polymesoda bengalensis</i> (Lamarck, 1818) Genus <i>Corbicula</i> Megerle von Muhlfeldt, 1811	Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup>
346. <i>Corbicula fluminea</i> Müller, 1774	Chilka Lake <sup>74</sup>
347. <i>Corbicula striatella</i> Deshayes, 1854 Family GLAUCONOMIDAE Gray, 1853 Genus <i>Glaucanome</i> Gray, 1828	Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup>
348. <i>Glaucanome angulata</i> Reeve, 1844	Talsari, Chandipur <sup>17</sup>
349. <i>Glaucanome sculpta</i> Sowerby III, 1894	Chandipur <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup> , Talsari <sup>31</sup> Talsari <sup>31</sup>
350. <i>Glaucanome virens</i> (Linnaeus, 1767) Super family GALEOMMATOIDEA J.E. Gray, 1840 Family GALEOMMATIDAE Gray, 1840 Genus <i>Galeomma</i> Turton, 1825	
351. <i>Galeomma argentea</i> Deshayes, 1856 Genus <i>Scintilla</i> Deshayes, 1856	Ganjam coast <sup>17</sup>
352. <i>Scintilla chilkaensis</i> Preston, 1915 Family KELLIIDAE Forbes & Hanley, 1848 Genus <i>Kellya</i> Philippi, 1853	Chilka Lake <sup>12,17,18</sup>
353. <i>Kellya chilkaensis</i> Preston, 1915	Chilka Lake <sup>12,17,18</sup>
354. <i>Kellya mahosaensis</i> Preston, 1915 Super family MACTROIDEA Lamaeck, 1809 Family MACTRIDAE Lamarck, 1809 Genus <i>Maetra</i> Linnaeus, 1767	Chilka Lake <sup>12</sup>
355. <i>Maetra achatina</i> Holten, 1802	Talsari <sup>31</sup>
356. <i>Maetra cuneata</i> Gmelin, 1791	Entire coast <sup>17,19,20,23,31</sup>
357. <i>Maetra dissimilis</i> Reeve, 1854	Talsari <sup>31</sup>
358. <i>Maetra grandis</i> Gmelin, 1791	Puri, Konark, Gopalpur <sup>17</sup> , Chilka Lake <sup>17,18</sup> , Mahanadi estuary <sup>20</sup> , Rushikulya estuary <sup>29</sup>
359. <i>Maetra laevis</i> Dunker, 1871	Puri <sup>17</sup> , Mahanadi estuary <sup>20</sup>
360. <i>Maetra luzonica</i> Reeve, 1854	Entire coast of Odisha <sup>17,18-20,24,31</sup>
361. <i>Maetra mera</i> Reeve, 1854	Entire coast of Odisha <sup>17,18,19,31</sup>
362. <i>Maetra petiti</i> d'Orbigny, 1846 = <i>Maetra symmetrica</i> Deshayes <sup>65</sup>	Chandrabhaga <sup>17</sup> , Rushikulya estuary <sup>29</sup> , Talsari <sup>31</sup>
363. <i>Maetra stultorum</i> (Linnaeus, 1758)	Talsari <sup>31</sup> , Chilka Lake <sup>74</sup>
364. <i>Maetra turgida</i> Gmelin, 1791	Chandbali, Khira Gachha Madeli, Konark <sup>17</sup> , Chilka Lake <sup>18</sup> , Mahanadi estuary <sup>20</sup> , Talsari <sup>31</sup>
365. <i>Maetra violacea</i> Gmelin, 1791 Genus <i>Maetrinula</i> Gray, 1853	Chandbali, Chandipur <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup> , Talsari <sup>31</sup>
366. <i>Maetrinula reevesii</i> (Gray, 1837)	Off Devi river mouth <sup>17</sup>
367. <i>Maetrinula plicataria</i> (Linnaeus, 1767) Genus <i>Standella</i> Gray, 1853	Chandipur <sup>17</sup>
368. <i>Standella nicobarica</i> Gmelin, 1790	Talsari <sup>31</sup>
369. <i>Standella pellucida</i> (Gmelin, 1791) = <i>Spisula (Standella) annandalei</i> (Preston, 1915) <sup>56</sup> Genus <i>Raeta</i> Gray, 1853	Chilka Lake <sup>12,17,18</sup> , Konark <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Talsari <sup>31</sup>
370. <i>Raeta pellicula</i> (Reeve, 1854)	Talsari <sup>31</sup>
371. <i>Raeta pulchella</i> (Adams & Reeve, 1850) Super family TELLINOIDEA Blainville, 1814 Family TELLINIDAE Blainville, 1814 Genus <i>Apolymetis</i> Salisbury, 1929	Talsari <sup>31</sup>
372. <i>Apolymetis edentula</i> (Spengler, 1798) Genus <i>Psammacoma</i> Dall, 1900	Chandipur, Paradip, Konark <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup> , Talsari <sup>31</sup>

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (*Contd.*)

373. <i>Psammacoma birmanica</i> (Philippi, 1845)	Talsari <sup>17</sup> , Chilka Lake <sup>18</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup> , Talsari <sup>31</sup>
374. <i>Psammacoma candida</i> (Lamarck, 1818)	Talsari <sup>31</sup>
375. <i>Psammacoma gubernaculum</i> (Hanley, 1844) = <i>Macoma</i> ( <i>Psammacoma</i> ) <i>truncata</i> (Jonas) <sup>66</sup>	Mohanadi estuary, Chilka Lake <sup>17,18</sup> , Mahanadi estuary <sup>20</sup> , Talsari <sup>31</sup>
376. <i>Psammacoma myaeformis</i> (G. B. Sowerby II, 1868) Genus <i>Strigilla</i> Turton, 1822	Puri <sup>17</sup> , Talsari <sup>31</sup>
377. <i>Strigilla splendida</i> (Anton, 1838) Genus <i>Tellinides</i> Lamarck, 1818	Chandipur <sup>17</sup> , Subarnarekha estuary <sup>24</sup> , Talsari <sup>31</sup>
378. <i>Tellinides sinuatus</i> (Spengler, 1798) = <i>Tellina Tellinides</i> <i>sinuata</i> Spengler <sup>67</sup>	Chandipur, Konark <sup>17</sup>
379. <i>Tellinides timorensis</i> Lamarck, 1818 Genus <i>Tellina</i> Linnaeus, 1758	Talsari <sup>31</sup>
380. <i>Tellina ala</i> Hanley, 1845 = <i>Macoma</i> ( <i>Psammotreta</i> ) <i>ala</i> (Hanley) <sup>68</sup>	Puri <sup>17</sup>
381. <i>Tellina barhampurensis</i> Preston, 1915	Chilka Lake <sup>12,17,18</sup>
382. <i>Tellina chilkaensis</i> Preston, 1915	Chilka Lake <sup>12</sup>
383. <i>Tellina confusa</i> Preston, 1914	Chilka Lake <sup>11</sup>
384. <i>Tellina iridescens</i> (Benson, 1842)	Chilka Lake <sup>17,18</sup>
385. <i>Tellina lanceolata</i> Gmelin, 1791	Puri <sup>17</sup>
386. <i>Tellina opalina</i> Chemnitz in Schröter, 1788	Talsari <sup>31</sup>
387. <i>Tellina tenuis</i> de Coasta, 1778	Chilka Lake <sup>74</sup>
388. <i>Tellina texturata</i> G.B.Sowerby II, 1867 Genus <i>Abranda</i> Iredale, 1924	Chilka Lake <sup>17,18</sup>
389. <i>Abranda casta</i> (Hanley, 1844) = <i>Tellina</i> ( <i>Arcopagia</i> ) <i>casta</i> Hanley <sup>68</sup> Genus <i>Dallitellina</i> Afshar, 1969	Off Puri <sup>17</sup>
390. <i>Dallitellina rostrata</i> (Linnaeus, 1758) Family DONACIDAE J.Fleming, 1828 Genus <i>Donax</i> Linnaeus, 1758	Paradip <sup>17</sup> , Mahanadi estuary <sup>20</sup>
391. <i>Donax aperitus</i> Melvill, 1897	Off Puri <sup>17</sup>
392. <i>Donax cuneatus</i> Linnaeus, 1758	Odisha coast <sup>16</sup>
393. <i>Donax deltoides</i> Lamarck, 1818	Talsari <sup>31</sup>
394. <i>Donax incarnatus</i> Gmelin, 1791	Chandipur <sup>17</sup> , Subarnarekha estuary <sup>24</sup> , Chilka Lake <sup>74</sup>
395. <i>Donax lubricus</i> Hanley, 1845	Chandipur <sup>17</sup>
396. <i>Donax pulchellus</i> Hanley, 1843	Chilka Lake <sup>12,17,18</sup> , Talsari <sup>31</sup>
397. <i>Donax scortum</i> (Linnaeus, 1758) Family PSAMMOBIIDAE J.Fleming, 1828 Genus <i>Gari</i> Schumacher, 1817	Entire coast of Odisha <sup>17,18-20,23,24,30,31</sup>
398. <i>Gari maculosa</i> (Lamarck, 1818) Genus <i>Psammobia</i> Lamarck, 1818	Paradip Port <sup>17</sup> , Mahanadi estuary <sup>20</sup>
399. <i>Psammobia mahosaensis</i> Preston, 1915 Genus <i>Hiatula</i> Modeer, 1793	Chilka Lake <sup>12,17,18</sup>
400. <i>Hiatula diphos</i> (Linnaeus, 1771) = <i>Sanguinolaria</i> ( <i>Soletellina</i> ) <i>acuminata</i> Deshayes & S. ( <i>S.</i> ) <i>diphos</i> (Linnaeus) <sup>56</sup> Family SEMELIDAE Stoliczka, 1870 (1825) Genus <i>Theora</i> H. Adams & A. Adams, 1856	Chandipur, Ganjam, Puri <sup>17</sup> , Chilka Lake <sup>18</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup> , Talsari <sup>31</sup>
401. <i>Theora opalina</i> (Hinds, 1843) Genus <i>Cumingia</i> G. B. Sowerby I, 1833	Chilka Lake <sup>11,12,17,18</sup>
402. <i>Cumingia hinduorum</i> Preston, 1915 Super family UNGULINOIDEA Gray, 1854 Family UNGULINIDAE Gray, 1854 Genus <i>Diplodonta</i> Bronn, 1831	Chilka Lake <sup>12,17,18</sup>
403. <i>Diplodonta annandalei</i> Preston, 1914	Chilka Lake <sup>11,12,17</sup>
404. <i>Diplodonta barhampurensis</i> Preston, 1915	Chilka Lake <sup>12,17,18</sup> , Talsari <sup>31</sup>
405. <i>Diplodonta bullata</i> Dunker, 1865	Chandipur, Gopalpur <sup>17</sup> , Talsari <sup>31</sup>
406. <i>Diplodonta chilkaensis</i> Preston, 1914	Chilka Lake <sup>11,12,17,18</sup>
407. <i>Diplodonta ovalis</i> Preston, 1914	Chilka Lake <sup>11,12,17,18</sup>

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (Contd.)

408. <i>Diplodonta satparaensis</i> Preston, 1915	Chilka Lake <sup>12,17,18</sup>
Super family VENEROIDEA Rafinesque, 1815	
Family VENERIDAE Rafinesque, 1815	
Genus <i>Anomalodiscus</i> Dall, 1902	
409. <i>Anomalodiscus squamosus</i> (Linnaeus, 1758)	Konark, Chhatrapur <sup>17</sup>
Genus <i>Bassina</i> Jukes-Browne, 1914	
410. <i>Bassina pachyphylla</i> (Jonas, 1839)	Paradip, Khira Gachha Madeli <sup>17</sup>
Genus <i>Dosinia</i> Scopoli, 1777	
411. <i>Dosinia areolata</i> Römer, 1870*	Chilka New Mouth (Present collection)
412. <i>Dosinia fibula</i> (Reeve, 1850)	Chilka Lake <sup>17,18</sup>
413. <i>Dosinia tumida</i> (Gray, 1838)	Chandipur, Chandbali, Paradip, Gopalpur <sup>17</sup> , Chilka Lake <sup>17,18</sup> , Mahanadi estuary <sup>20</sup>
Genus <i>Gafrarium</i> Röding, 1798	
414. <i>Gafrarium pectinatum</i> (Linnaeus, 1758)	Konark <sup>17</sup>
Genus <i>Katelysia</i> Römer, 1857	
415. <i>Katelysia japonica</i> (Gmelin, 1791)	Talsari <sup>31</sup>
Genus <i>Marcia</i> H. Adams & A. Adams, 1857	
416. <i>Marcia opima</i> (Gmelin, 1791) = <i>Marcia pinguis</i> (Schroeter) <sup>69</sup>	Entire Odisha coast <sup>12,17,18-20,29,31</sup>
417. <i>Marcia recens</i> (Holten, 1802)	Puri, Gopalpur <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Rushikulya estuary <sup>29</sup> , Talsari <sup>31</sup>
Genus <i>Meretrix</i> Lamarck, 1799	
418. <i>Meretrix casta</i> (Gmelin, 1791)	Entire Odisha coast <sup>12,17,18-20,23,24,29,31,74</sup>
419. <i>Meretrix meretrix</i> (Linnaeus, 1758)	Entire Odisha coast <sup>12,17,18-20,23,24,29-31,74</sup>
420. <i>Meretrix morphina</i> (Lamarck, 1818)	Gopalpur <sup>12</sup>
Genus <i>Paphia</i> Röding, 1798	
421. <i>Paphia rotundata</i> (Linnaeus, 1758) = <i>Paphia alapapilionea</i> Röding <sup>56</sup>	Rushikulya estuary <sup>29</sup> , Talsari <sup>31</sup>
Genus <i>Placamen</i> Iredale, 1925	
422. <i>Placamen lamellatum</i> (Röding, 1798) = <i>Batissa calophylla</i> (Philippi, 1836) <sup>56</sup>	Paradip, Khiragachha Madeli <sup>17</sup> , Mahanadi estuary <sup>20</sup>
Genus <i>Protapes</i> Dall, 1902	
423. <i>Protapes gallus</i> (Gmelin, 1791) = <i>Paphia malabarica</i> (Schroeter) <sup>70</sup>	Chandipur, Puri <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Rushikulya estuary <sup>29</sup> , Talsari <sup>31</sup>
Genus <i>Paratapes</i> Stoliczka, 1870	
424. <i>Paratapes textilis</i> (Gmelin, 1791)	Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup>
425. <i>Paratapes undulatus</i> (Born, 1778)	Chhatrapur <sup>17</sup> , Chilka Lake <sup>18</sup> , Mahanadi estuary <sup>20</sup>
Genus <i>Pelecycora</i> Dall, 1902	
426. <i>Pelecycora excisa</i> (Röding, 1798)	Chandbali, Paradip, Konark <sup>17</sup> , Mahanadi estuary <sup>20</sup>
427. <i>Pelecycora trigona</i> (Reeve, 1850)	Chandipur, Chhatrapur <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup> , Talsari <sup>31</sup>
Genus <i>Pitar</i> Römer, 1857	
428. <i>Pitar alabastrum</i> (Reeve, 1863)	Off Gopalpur <sup>17</sup>
Genus <i>Ruditapes</i> Chiamenti, 1900	
429. <i>Ruditapes bruguiera</i> (Hanley, 1845)	Mahanadi estuary <sup>20</sup>
Genus <i>Tapes</i> Megerle von Mühlfeld, 1811	
430. <i>Tapes belcheri</i> G.B. Sowerby II, 1852	Talsari <sup>31</sup>
Genus <i>Sunetta</i> Link, 1807	
431. <i>Sunetta donacina</i> (Gmelin, 1791)	Chilka Lake <sup>18</sup> , Rushikulya estuary <sup>19</sup> , Mahanadi estuary <sup>20</sup>
432. <i>Sunetta effosa</i> (Hanley, 1843)	Puri, Gopalpur, Rushikulya <sup>19</sup> and Bahuda estuary <sup>17,23</sup> , Mahanadi estuary <sup>20</sup>
433. <i>Sunetta excavata</i> (Hanley, 1843)	Chandipur <sup>17</sup>
434. <i>Sunetta meroe</i> (Linnaeus, 1758) = <i>Meroe chilkaensis</i> Preston, 1914 <sup>17</sup>	Entire coast of Odisha <sup>11,17-20,29,31</sup>
435. <i>Sunetta scripta</i> (Linnaeus, 1758) = <i>Meroe satparaensis</i> Preston, 1914 <sup>17</sup>	Entire coast of Odisha <sup>11,12,17-20,23,29,30,74</sup>
436. <i>Sunetta solanderii</i> (Gray, 1825)	Gopalpur (Present collection)
Genus <i>Timoclea</i> T. Brown, 1827	
437. <i>Timoclea arakana</i> (G. Nevill & H.L. Nevill, 1871)	Paradip, Konark, Chhatrapur <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Talsari <sup>31</sup>

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (*Contd.*)

438. <i>Timoclea imbricata</i> (G.B. Sowerby II, 1853)	Entire coast of Odisha <sup>17,18-20,24,31</sup>
439. <i>Timoclea scabra</i> Habe, 1964 Genus <i>Tivela</i> Link, 1807	Puri <sup>17</sup> , Chilka Lake <sup>18</sup>
440. <i>Tivela dillwyni</i> (Deshayes, 1853) Subfamily CLEMENTIINAE Frizzell, 1936 Genus <i>Clementia</i> Gray, 1842	Chilka Lake <sup>12,17,18</sup>
441. <i>Clementia papyracea</i> (Gmelin, 1791) = <i>Clementia annandalei</i> Preston, 1914 <sup>56</sup>	Chilka Lake <sup>11,12,74</sup>
442. <i>Clementia vatheleti</i> Mabilie, 1901 Order MYIDA STOLICZKA, 1870 Super family MYOIDEA Lamarck, 1809 Family MYIDAE Lamarck, 1809 Genus <i>Sphenia</i> Turton, 1822	Chilka Lake <sup>17, 18</sup>
443. <i>Sphenia persversa</i> Blanford, 1867* Family CORBULIDAE Lamarck, 1818 Genus <i>Corbula</i> Bruguière, 1797	Subarnarekha estuary (Present collection)
444. <i>Corbula rotalis</i> Hinds, 1843 Genus <i>Potamocorbula</i> Habe, 1955	Puri, Off Devi river mouth <sup>17</sup> , Mahanadi estuary <sup>20</sup>
445. <i>Potamocorbula abbreviata</i> (Preston, 1907)* Super family PHOLADOIDEA Lamarck, 1809 Family PHOLADIDAE Lamarck, 1809 Genus <i>Barnea</i> Risso, 1826	Paradip (Present collection)
446. <i>Barnea candida</i> (Linnaeus, 1758)	Chnadipur <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup> , Talsari <sup>31</sup>
447. <i>Barnea manilensis</i> (Philippi, 1847) = <i>Martesia delicatula</i> Preston, 1910 <sup>58</sup> Genus <i>Martesia</i> G.B. Sowerby I, 1824	Devi river mouth <sup>17</sup> , Mahanadi estuary <sup>20</sup>
448. <i>Martesia fragilis</i> Verrill & Bush, 1898	Subarnarekha estuary <sup>24</sup>
449. <i>Martesia striata</i> (Linnaeus, 1758) Genus <i>Pholas</i> Linnaeus, 1758	Chilka Lake <sup>11,17,18,26</sup> , Khira Gachha Madeli <sup>17</sup> , Mahanadi estuary <sup>20</sup>
450. <i>Pholas orientalis</i> Gmelin, 1791 Family TEREDINIDAE Rafinesque, 1815 Sub family BANKIINAE Turner, 1966 Genus <i>Bankia</i> Gray, 1842	Chandipur <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup> , Talsari <sup>31</sup>
451. <i>Bankia brevis</i> (Deshayes, 1863)	Chilka Lake <sup>26</sup>
452. <i>Bankia campanellata</i> Moll & Roch, 1931	Khira Gachha Madeli, Lions Rump <sup>17</sup> , Mahanadi estuary <sup>20</sup>
453. <i>Bankia carinata</i> (J.E.Grey, 1827) = <i>Xylotrya stutchburyi</i> Sowerby <sup>71</sup>	Chilka Lake <sup>12</sup> , Khira Gachha Madeli <sup>17</sup> , Mahanadi estuary <sup>20</sup>
454. <i>Bankia fimbriatula</i> Moll. and Roch, 1931	Paradip <sup>17</sup> , Mahanadi estuary <sup>20</sup>
455. <i>Bankia nordi</i> Moll, 1935*	Talsari (Present collection)
456. <i>Bankia rochi</i> Moll, 1931 Genus <i>Nausitora</i> Wright, 1864	Khira Gachha Madeli, Paradip <sup>17</sup> , Mahanadi estuary <sup>20</sup>
457. <i>Nausitora dunlopei</i> Wright, 1864	Khira Gachha Madeli, Paradip <sup>17</sup> , Mahanadi estuary <sup>20</sup>
458. <i>Nausitora fusticulus</i> (Jeffreys, 1860)	Light House, False Point <sup>17</sup> , Mahanadi estuary <sup>20</sup>
459. <i>Nausitora hedleyi</i> Schepman, 1919 Genus <i>Nototeredo</i> Bartsch, 1923	Hukitola <sup>17</sup> , Mahanadi estuary <sup>20</sup>
460. <i>Nototeredo knoxi</i> (Bartsch, 1917) Sub family TEREDININAE Rafinesque, 1815 Genus <i>Bactronophorus</i> Tapparone Canefri, 1877	Paradip <sup>17</sup> , Mahanadi estuary <sup>20</sup>
461. <i>Bactronophorus thoracites</i> (Gould, 1856) Genus <i>Dicyathifer</i> Iredale, 1932	Khira Gachha Madeli <sup>17</sup> , Mahanadi estuary <sup>20</sup> , Subarnarekha estuary <sup>24</sup>
462. <i>Dicyathifer mannii</i> (Wright, 1866) Genus <i>Lyrodus</i> Gould, 1870	Khira Gachha Madeli, Paradip <sup>17</sup> , Mahanadi estuary <sup>20</sup>
463. <i>Lyrodus pedicellatus</i> (Quatrefages, 1849) Genus <i>Teredora</i> Bartsch, 1921	Khira Gachha Madeli, Lions Rump <sup>17</sup> , Mahanadi estuary <sup>20</sup>
464. <i>Teredora princisae</i> (Sivickis, 1928) Super family SOLENOIDEA Lamarck, 1809 FAMILY SOLENIDAE Lamarck, 1809 Genus <i>Solen</i> Linnaeus, 1758	Khira Gachha Madeli <sup>17</sup> , Mahanadi estuary <sup>20</sup>

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (Contd.)

465. <i>Solen annandalei</i> Preston, 1915	Chilka Lake <sup>12,17,18,74</sup> , Chandipur, Talsari, Puri <sup>17</sup> , Mahanadi estuary <sup>20</sup>
466. <i>Solen brevis</i> Hanley, 1842	Subarnarekha estuary <sup>24</sup>
467. <i>Solen graveleyi</i> Ghosh, 1920	Chandipur <sup>17</sup>
468. <i>Solen kemp</i> Preston, 1915	Chilka Lake <sup>12,17,18</sup> , Chandipur, Balramgudi <sup>17</sup> , Mahanadi estuary <sup>20</sup>
469. <i>Solen truncatus</i> Philippi, 1843	Chilka Lake <sup>11</sup> , Chandipur <sup>17</sup> , Rushikulya estuary <sup>19</sup>
Genus <i>Neosolen</i> Ghosh, 1920	
470. <i>Neosolen aquaedulcoris</i> (Ghosh, 1920)	Chilka Lake <sup>17,18</sup>
Family PHARIDAE H. Adams & A. Adams, 1856	
Genus <i>Pharella</i> Gray, 1854	
471. <i>Pharella acutidens</i> (Broderip & Sowerby, 1829)*	Talsari (Present collection)
472. <i>Pharella javanica</i> (Lamarck, 1818)	Subarnarekha mouth <sup>17,24</sup>
Genus <i>Siliqua</i> Megerle von Mühlfeld, 1811	
473. <i>Siliqua albida</i> (Adams & Reeve, 1850)	Chandipur <sup>17</sup> , Subarnarekha mouth <sup>24</sup>
474. <i>Siliqua fasciata</i> (Spengler, 1794)	Chandipur <sup>17</sup>
475. <i>Siliqua radiata</i> (Linnaeus, 1758)	Entire coast of Odisha <sup>17,18,20,23,24,29,30</sup>
Genus <i>Neosiliqua</i> Habe, 1965	
476. <i>Neosiliqua winteriana</i> (Dunker, 1853)*	Talsari (Present collection)
Genus <i>Cultellus</i> Schumacher, 1817	
477. <i>Cultellus maximus</i> (Gmelin, 1791)*	Subarnarekha estuary (Present collection)
478. <i>Cultellus scalprum</i> (Gould, 1851) = <i>C. subellipticus</i> Dunker, 1862 <sup>72</sup>	Chilka Lake <sup>18</sup>
Order PHOLADOMYOIDA Newell, 1965	
Super family PANDOROIDEA Rafinesque, 1815	
Family PANDORIDAE Rafinesque, 1815	
Genus <i>Pandora</i> Bruguière, 1797	
479. <i>Pandora brevifrons</i> G.B. Sowerby I, 1835	Puri, Off Devi river <sup>17</sup> , Mahanadi estuary <sup>20</sup>
Super family THRACIOIDEA Stoliczka, 1870 (1839)	
Family LATERNULIDAE Hedley, 1918 (1840)	
Genus <i>Laternula</i> Röding, 1798	
480. <i>Laternula anatina</i> (Linnaeus, 1758)	Talsari <sup>31</sup>
481. <i>Laternula navicula</i> (Reeve, 1863) = <i>Lyonsia samalinsulae</i> Preston, 1914; <i>Anatina granulosa</i> Preston, 1914; <i>A. barakulensis</i> Preston, 1915; <i>A. barakudaensis</i> Preston, 1915 <sup>56</sup>	Chilka Lake <sup>11,12,17,18,20</sup>
482. <i>Laternula truncata</i> (Lamarck, 1818)	Talsari <sup>17</sup> , Subarnarekha estuary <sup>24</sup>
Super family CUSPIDARIOIDEA Dall, 1886	
Family CUSPIDARIIDAE Dall, 1886	
Genus <i>Cuspidaria</i> Nardo, 1840	
483. <i>Cuspidaria annandalei</i> Preston, 1915	Chilka Lake <sup>12,17</sup>
484. <i>Cuspidaria chilensis</i> Dall, 1890	Chilka Lake <sup>17,18</sup>
Order UNCERTAIN	
Super family GASTROCHAENOIDEA Gray 1840	
Family GASTROCHAENIDAE Gray 1840	
Genus <i>Gastrochaena</i> Spengler, 1783	
485. <i>Gastrochaena indistincta</i> Deshayes	Ganjam coast <sup>17</sup>
Class CEPHALOPODA	
Sub class NAUTILOIDEA	
Order NAUTILIDA	
Family NAUTILIDAE Blainville, 1825	
Genus <i>Nautilus</i> Linnaeus, 1758	
486. <i>Nautilus pompilius</i> Linnaeus, 1758	Rushikulya estuary <sup>23</sup>
Order SEPIIDA	
Family SEPIIDAE Keferstein, 1866	
Genus <i>Sepia</i> Linnaeus, 1758	
487. <i>Sepia aculeata</i> Van Hasselt [in Férussac & d'Orbigny], 1835	Balaswar Bay <sup>17</sup>
488. <i>Sepia officinalis</i> Linnaeus, 1758	Gopalpur <sup>23</sup>
489. <i>Sepia pharaonis</i> Ehrenberg, 1831	Gopalpur <sup>17</sup>
Genus <i>Sepiella</i> Gray, 1849	

(Contd.)

Table 1 — Checklist of marine and estuarine mollusc of Odisha coast. (*Contd.*)

490. <i>Sepiella inermis</i> (Van Hasselt [in Férussac & d'Orbigny] 1835) Order MYOPSIDA Family LOLLIGINIDAE Lesueur, 1821 Genus <i>Loliolus</i> ( <i>Loliolus</i> ) Steenstrup, 1856	Entire Odisha coast <sup>17,20</sup>
491. <i>Loliolus</i> ( <i>Loliolus</i> ) <i>hardwickei</i> (Gray, 1849) = <i>Loliolus investigatoris</i> Goodrich <sup>73</sup>	Gopalpur, Puri, Paradip <sup>17</sup> , Mahanadi estuary <sup>20</sup>
492. <i>Loligo forbesii</i> Steenstrup, 1856 Genus <i>Uroteuthis</i> Rehder, 1945	Gopalpur <sup>23</sup>
493. <i>Uroteuthis duvaucelii</i> (d'Orbigny [in Férussac & d'Orbigny], 1835) = <i>Loligo duvaucelii</i> d'Orbigny <sup>36</sup> Order OCTOPODA Super family OCTOPODOIDEA d'Orbigny, 1840 Family OCTOPODIDAE d'Orbigny, 1840 Genus <i>Octopus</i> Cuvier, 1798	Gopalpur, Puri, Paradip <sup>17</sup> , Mahanadi estuary <sup>20</sup>
494. <i>Octopus globosus</i> Appellöf, 1886	Gopalpur <sup>17</sup>
495. <i>Octopus rugosus</i> Bosc, 1792	Reported in literature only <sup>17</sup>
496. <i>Octopus vulgaris</i> Cuvier, 1797	Rushikulya estuary <sup>23</sup>

(11 species), polyplacophora and scaphopoda having one species each. And 43 species i.e. *Nerita insculpta* Recluz, 1841, *N. planospira* Anton, 1838, *N. undata* Gmelin, 1791, *N. undulata* Gmelin, 1791, *Neritina auriculata* Lamarck, 1816, *Pseudonerita obtusa* (Sowerby, 1841), *Erronea erronea* (Linnaeus, 1758), *Monetaria annulus* (Linnaeus, 1758), *Littoraria cingulifera* (Dunker, 1845), *Nodilittorina quadricincta* (Muhlfeldt, 1824), *Polinices peselephantii* (Link, 1807), *Iravadia funerea* Preston, 1916, *Laevistrombus canarium* (Linnaeus, 1758), *Epitonium latifasciatum* (Sowerby II, 1874), *Nassarius nodifer* (Powys, 1835), *Hemifusus ternatanus* (Gmelin, 1791), *Chicoreus ramosus* (Linnaeus, 1758), *Cronia konkanensis* (Melville, 1893), *Purpura panama* (Röding, 1798), *Babylonea zeylanica* (Bruguère, 1789), *Harpulina lapponica* (Linnaeus, 1767), *Conus bayani* Jousseume, 1872, *Conus coromandelicus* E.A. Smith, 1894, *Melampus pulchella* (Petit, 1842), *Onchidium tigrinum* Stoliczka, 1869, *Choromytilus chorus* (Molina, 1782), *Modiolus metcalfei* Hanely, 1843, *Modiolus modulaides* (Röding, 1798), *Anadara pilula* (Reeve, 1843), *Tegillarca nodifera* (Martens, 1860), *Pinna bicolor* Gmelin, 1791, *Crassostrea gigas* (Thunberg, 1793), *Anomia ephippium* Linnaeus, 1758, *Cardita senegalensis* Reeve, 1843, *Fulvia australis* (G.B. Sowerby II, 1834), *Lunulicardia retusa* (Linnaeus, 1767), *Dosinia areolata* Römer, 1870, *Sphenia persversa* Blanford, 1867, *Potamocorbula abbreviata* (Preston, 1907), *Bankia nordi* Moll, 1935, *Pharella acutidens* (Broderip & Sowerby, 1829), *Neosiliqua winteriana* (Dunker, 1853) and *Cultellus maximus* (Gmelin, 1791) are recorded for the first time from different localities of Odisha coast (marked with asteriks \* in Table. 1) during the study.

## Discussion

The present paper focus on the checklist of mollusc including Polyplacophora, Gastropoda, Scaphopoda, Bivalve and Cephalopoda which are inhabiting the marine and estuarine waters of Odisha coast. The eighteen freshwater species i.e. *Neritina auriculata* Lamarck, 1816, *N. violacea* (Gmelin, 1791), *Neritina smithi* Wood, 1828 (family Neritidae), *Pila globosa* Swainson, 1822 (family Ampullariidae), *Bellamyia bengalensis* (Lamarck, 1822), *B. Dissimilis* (Muller, 1774) (family Viviparidae), *Stenothyra blanfordiana* Nevill, 1880, *S. deltae* (Benson, 1836), *S. minima* (G.B. Sowerby I, 1837) (family Stenothyridae), *Iravadia ornate* Blanford, 1867, *I. Funereal* Preston, 1916 (family Iravadiidae), *Thiara lineata* Gray, 1828, *T. granifera* (Lamarck, 1822), *T. scabra* (O.F. Müller, 1774), *T. torulosa* (Bruguère, 1789), *T. tuberculata* (O.F. Müller, 1774) (family Thiariidae) and bivalve species like *Polymesoda bengalensis* (Lamarck, 1818) and *Corbicula stratela* Deshayes, 1854 (family Cyrenidae) are included in this list, though these species are sometime inhabiting the estuarine brackish water. The incidence of freshwater mollusc found in estuarine habitat happens as estuarine waters became low salinity during monsoon, and the Odisha coast having Chilka lagoon and Mahanadi and other estuaries; hence some freshwater species are available in this coast. The effort is given to get rid of the synonyms and the valid names are enlisted and synonyms are given along with reference for particular species.

## Conclusion

This is an updated checklist of marine and estuarine molluscs of Odisha coast consisting of 496

species belonging to 261 genera, 124 families and 33 orders under five classes and A total of 43 species are reported first time from Odisha coast. Present report also includes eighteen freshwater species, as these are some time inhabits the estuarine water. This checklist is prepared on basis of recent surveys and past literature available at library, museum and internet sources.

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