TOWARDS INVENTORY AND ASSESSMENT OF PLANT RESOURCES OF BANGLADESH: CHALLENGES AND PROSPECTS

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Abstract

This review is to appraise plant resources of Bangladesh. Contributions to the inventory, flora writing and establishment of National Herbarium in the country are discussed. The progress of Published Flora of Bangladesh since its independence with family name, number of genera and species including contributors' name is mentioned. Contributions of the botanists of the Dhaka University (DU), Chittagong University (CU), Jahangirnagar University (JU), Rajshahi University (RU), Bangladesh Forest Research Institute (BFRI), Bangladesh Council of Scientific and Industrial Research (BCSIR), Asiatic Society of Bangladesh and other institutions in botanical explorations and inventory of the flora are also mentioned. Assessment of threatened taxa, medicinal plant diversity, new discovery, new records, endemics, and production of Red Data Book are also considered as valuable entry in this study.

Key words: Plant resource; Inventory; Assessment; Progress; Bangladesh.

INTRODUCTION

Plant is one of the important environmental resources which indeed regulate the sustainability of environment. Each and every species of plant makes uncountable contribution to the environment for well-being of human through not only supplying food and basic needs, but by releasing oxygen and reducing carbon-dioxide in the nature which is universal truth. Sustainable utilization and conservation of plant resource of a country depend on its proper exploration, complete inventory and assessment which almost all developed countries have done like exploration of other environmental resources, e.g., coal, gas, oil and minerals. IUCN has developed guidelines for assessing, conserving, and sustainable using of biodiversity resources of every country following Convention on Biological Diversity (Articles 6-10). Flora is the result of inventory of plants of a country and Red Data Book (RDB) is the assessment result of its threatened plants. Hence production of Flora and RDB is urgently required for a country for determination, sustainable utilization, and conservation management of its biodiversity resources. Floristically, Bangladesh is one of the richest biodiversity areas in the Indian subcontinent estimating approximately c.5000 vascular angiosperms (Khan 1977, 1991) of which more than 80% species are Indian elements. The flora shows a considerable admixture of Cachar and Khasia elements. Floristically and geographically the region of Chittagong and the Hill Tracts is more related to Indo-China and Arakan than any other part of the Indian subcontinent. Plant scientists of Bangladesh, since its independence (1971), have started to contribute in conducting this inventory research, but the goal yet to be achieved. The present study is therefore envisaged to evaluate its progress made by Bangladeshi contributors since independence. The attempts are made to identify the actual problems on 'encountering' and 'priority to be given', and to trace out the possible prospects in achieving goals.

THE TEXT

Biodiversity loss is the process of losing species resulting from the continuous depletion of plants and animals population in a certain area of the biosphere. Unfortunately, quantifying the rates of species extinction, both at present and historically, is difficult, and predicting future rates with precision is impossible. Documenting definite species extinctions is only realistic under a relatively limited set of circumstances, where a described species is readily visible and has a well-defined range which can be surveyed repeatedly. Unsurprisingly, most documented extinctions are of species that are easy to record (e.g. land snails, birds) and inhabit sites which can be relatively easily inventoried (e.g. oceanic islands). Even then to face the species extinction and to realize the speciation, we shall have to go for proper assessment of the species richness and species evenness in an ecological area of our planet. It is equally important to make an inventory to exercise the procedural tools for species conservation and finally for the conservation of biodiversity. A little attempt is being initiated in the present article as a review-exercise for the plant population of Bangladesh.

Dhaka University and Bangladesh National Herbarium

Professor M. Salar Khan of Dhaka University was one of the pioneer taxonomists of the Indian subcontinent. He was the 'Father of Plant Taxonomy' in Bangladesh. Professor Khan was an outstanding plant taxonomist. He had commendable contribution and dedication in the field of plant taxonomy and inventory of the flora. Prof. Khan initiated the floristic survey project for the first time based on the *Herbarium* of Botany Department of Dhaka University. He continued this by his own effort until May 1970 while the project was approved by the then Government as "Botanical Survey of East Pakistan" under the Agricultural Research Council of Pakistan. After independence, the project was sustained by the Government of Bangladesh until 1973 while it was taken up as a contract project under the Bangladesh Agricultural Research Council (BARC). Conducting botanical exploration and process of establishing a national herbarium began with renewed vigor in 1975 under a name of "Bangladesh National Herbarium" (Khan 1991a) and was set up in the BARC compound at Farmgate, Dhaka.

Prof. M.S. Khan along with his followers/ co-associates (AM Huq, MK Mia, Mahbuba Halim, and MM Rahman) and others of aforesaid *Bangladesh National Herbarium* project worked in inventorying the flora by exploring, collecting, determining and preserving the plant specimens. The workers made study throughout Bangladesh for about three decades. Lastly, by 1999 they achieved the goal in establishing a separate campus of *Bangladesh National Herbarium* with an independent building in Mirpur area of Dhaka city. The *Herbarium* is built just beside the National Botanical Garden under financial support of ODA (now DFID) of the UK. It is then housed with a preservation of about 100,000 specimens collected by Prof. Khan and others during three and half decades until 2005.

Professor Khan and his co-workers of the *National Herbarium* conducted floristic survey, family wise inventory and Flora writing, and he published the **Flora of Bangladesh** as the first volume (Fasc.1). This included five angiosperm families, *viz*. Caricaceae, Casuarinaceae, Hydrophyllaceae, Martyniaceae and Phytolaccaceae. The description of the families included with a single species in each case (Khan 1972). Since then, family wise taxonomic itemization and publication of the **Flora of Bangladesh** had been continued until 2002 (Khan 1972-1987, Khan and Rahman 1989-2002) edited by MS Khan and thereafter by others (e.g. Rahman 2003, Rahman and Khanam 2003, Khanam and Ara 2004-2008, Ara and Khan 2009, 2014, 2015) from Bangladesh National Herbarium. To date only 75 families consisting of 629 species were completely inventoried so far and published in 63 fascicles of the **Flora of Bangladesh** during the last five decades since 1970 at a very slow progress. A list of Published Fascicles of the Flora with number of taxa is shown in Table 1. Nevertheless, it was made possible by the joint efforts of the taxonomists of National Herbarium, Dhaka University, Chittagong University and Bangladesh Forest Research Institute (BFRI).

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12 (1960) Somerandaceae 2 3 M. S. Khan 13 (1980) Buddeejaceae 1 1 M. S. Khan & A. M. Huq 14 (1980) Cannabidaceae 1 1 M. S. Khan & M. Halim 15 (1981) Oxalidaceae 2 4 M. S. Khan & M. Halim 15 (1981) Oxalidaceae 2 4 M. S. Khan & M. Halim 16 (1981) Zygophyllaceae 1 1 M. S. Khan & M. Huq 17 (1981) Molluginaceae 2 3 M. S. Khan & M. Huq 19 (1982) Averrhoaceae 1 2 M. S. Khan & M. Huq 20 (1982) Salicaceae 1 1 M. S. Khan & M. Huq 21 (1983) Orobanchachaceae 2 4 M. Begum & A. M. Huq 23 (1983) Dichapetalaceae 1 1 A. M. Huq 24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 21 (1985) Hydrocharitacea	11(1979) 12(1080)	Sonnaratioaaaa	2	5	M. S. Khan
15 (1960) Buddeejaceae 1 1 M. S. Khala & A. M. Huq 14 (1980) Cannabidaceae 1 1 M. S. Khan & M. Halim 15 (1981) Oxalidaceae 2 4 M. S. Khan & M. Halim 16 (1981) Zygophyllaceae 1 1 M. S. Khan & M. Huq 17 (1981) Molluginaceae 2 3 M. S. Khan & A. M. Huq 17 (1981) Molluginaceae 2 3 M. S. Khan & A. M. Huq 18 (1982) Averrhoaceae 1 2 M. S. Khan & M. Halim 20 (1982) Ruppiaceae 1 1 M. S. Khan & M. Huq 21 (1983) Orobanchachaceae 2 4 M. Begum & A. M. Huq 22 (1983) Punicaceae 1 1 A. M. Huq 23 (1983) Dichapetalaceae 1 1 A. M. Huq 24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae<	12 (1980)	Duddaaiaaaaa	1		M. S. Kliali
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15 (1981) Oxalidaceae 2 4 M. S. Khan & M. Begum 16 (1981) Zygophyllaceae 1 1 M. S. Khan & A. M. Huq 17 (1981) Molluginaceae 2 3 M. S. Khan & M. Huim 18 (1982) Averrhoaceae 1 2 M. S. Khan & M. Huim 18 (1982) Ruppiaceae 1 1 M. S. Khan & M. Huim 20 (1982) Ruppiaceae 1 1 M. S. Khan & M. Huim 20 (1982) Salicaceae 1 1 A. M. Huq 21 (1983) Orobanchachaceae 2 4 M. Begum & A. M. Huq 22 (1983) Punicaceae 1 1 A. M. Huq 23 (1983) Dichapetalaceae 1 1 A. M. Huq 24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan & M. Huim 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae	14 (1980)	Cannabidaceae	1	1	M. S. Khan & M. Halim
16 (1981) Zygophyllaceae 1 1 M. S. Khan & A. M. Huq 17 (1981) Molluginaceae 2 3 M. S. Khan & M. Halim 18 (1982) Avernhoaceae 1 2 M. S. Khan & M. Huq 19 (1982) Ruppiaceae 1 1 M. S. Khan & M. Huq 20 (1982) Salicaceae 1 1 M. S. Khan & M. Huq 21 (1983) Orobanchachaceae 2 4 M. Begum & A. M. Huq 22 (1983) Punicaceae 1 1 A. M. Huq 23 (1983) Dichapetalaceae 1 1 A. M. Huq 24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 31 (1986) Aviceniaceae	15 (1981)	Oxalidaceae	2	4	M. S. Khan & M. Begum
17 (1981) Molluginaceae 2 3 M. S. Khan & M. Halim 18 (1982) Averrhoaceae 1 2 M. S. Khan & M. Huiq 19 (1982) Ruppiaceae 1 1 M. S. Khan & M. Huim 20 (1982) Salicaceae 1 1 M. S. Khan & M. Huim 21 (1983) Orobanchachaceae 2 4 M. Begum & A. M. Huq 22 (1983) Punicaceae 1 1 M. Halim 23 (1983) Dichapetalaceae 1 1 M. Huim 24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan & M. Halim 29 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 20 (1985) Convolvulaceae 1 1 M. M. K. Mia & A. M. Huq 21 (1986) Aviceniaceae 1 3 M. K. Alam 31 (1986) Loranthaceae <t< td=""><td>16 (1981)</td><td>Zygophyllaceae</td><td>1</td><td>1</td><td>M. S. Khan & A. M. Huq</td></t<>	16 (1981)	Zygophyllaceae	1	1	M. S. Khan & A. M. Huq
18 (1982) Averrhoaceae 1 2 M. S. Khan & A. M. Huq 19 (1982) Ruppiaceae 1 1 M. S. Khan & M. Halim 20 (1982) Salicaceae 1 1 A. M. Huq 21 (1983) Orobanchachaceae 2 4 M. Begum & A. M. Huq 22 (1983) Punicaceae 1 1 M. Halim 23 (1983) Dichapetalaceae 1 1 A. M. Huq 24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 20 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 2 A. M. Huq 32 (1986) Loranthaceae 7 1	17 (1981)	Molluginaceae	2	3	M. S. Khan & M. Halim
19 (1982) Ruppiaceae 1 1 M. S. Khan & M. Halim 20 (1982) Salicaceae 1 1 A. M. Huq 21 (1983) Orobanchachaceae 2 4 M. Begum & A. M. Huq 22 (1983) Punicaceae 1 1 M. Halim 23 (1983) Dichapetalaceae 1 1 A. M. Huq 24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Huim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 2 A. M. Huq 32 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 <td< td=""><td>18 (1982)</td><td>Averrhoaceae</td><td>l</td><td>2</td><td>M. S. Khan &A. M. Huq</td></td<>	18 (1982)	Averrhoaceae	l	2	M. S. Khan &A. M. Huq
20 (1982) Salicaceae 1 1 A. M. Huq 21 (1983) Orobanchachaceae 2 4 M. Begum & A. M. Huq 22 (1983) Punicaceae 1 1 M. Halim 23 (1983) Dichapetalaceae 1 1 A. M. Huq 24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 3 M. K. Alam & B. M. R. Khatun 32 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 <t< td=""><td>19 (1982)</td><td>Ruppiaceae</td><td>1</td><td>1</td><td>M. S. Khan & M. Halim</td></t<>	19 (1982)	Ruppiaceae	1	1	M. S. Khan & M. Halim
21 (1983 Orobanchachaceae 2 4 M. Begum & A. M. Huq 22 (1983) Punicaceae 1 1 M. Halim 23 (1983) Dichapetalaceae 1 1 A. M. Huq 24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 3 M. K. Alam & B. M. R. Khatun 32 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2 <	20 (1982)	Salicaceae	1	1	A. M. Huq
22 (1983) Punicaceae 1 1 M. Halim 23 (1983) Dichapetalaceae 1 1 A. M. Huq 24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 3 M. K. Alam & B. M. R. Khatun 32 (1986) Stylidiaceae 1 2 A. M. Huq 33 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2	21 (1983	Orobanchachaceae	2	4	M. Begum & A. M. Huq
23 (1983) Dichapetalaceae 1 1 A. M. Huq 24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 2 A. M. Huq 32 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2 2	22 (1983)	Punicaceae	1	1	M. Halim
24 (1984) Pontederiaceae 2 3 M. M. Rahman & M. Halim 25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 2 A. M. Huq 32 (1986) Stylidiaceae 1 2 A. M. Huq 33 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2 2	23 (1983)	Dichapetalaceae	1	1	A. M. Huq
25 (1984) Dipterocarpaceae 5 8 M. S. Khan 26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 2 A. M. Huq 32 (1986) Stylidiaceae 1 2 A. M. Huq 33 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2 2 A. M. Huq& H. Hasan 37 (1988) Peperomiaceae 1 1 B. Khan	24 (1984)	Pontederiaceae	2	3	M. M. Rahman & M. Halim
26 (1984) Linaceae 2 2 M. M. K. Mia & A. M. Huq 27 (1984) Trapaceae 1 2 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 3 M. K. Alam & B. M. R. Khatun 32 (1986) Stylidiaceae 1 2 A. M. Huq 33 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2 2 A. M. Huq& H. Hasan 37 (1988) Peperomiaceae 1 1 B. Khan	25 (1984)	Dipterocarpaceae	5	8	M. S. Khan
27 (1984) Trapaceae 1 2 M. S. Khan & M. Halim 28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 3 M. K. Alam & B. M. R. Khatun 32 (1986) Stylidiaceae 1 2 A. M. Huq 33 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2 2 A. M. Huq& H. Hasan 37 (1988) Peperomiaceae 1 1 B. Khan	26 (1984)	Linaceae	2	2	M. M. K. Mia & A. M. Huq
28 (1985) Hydrocharitaceae 6 9 M. S. Khan & M. Halim 29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 3 M. K. Alam & B. M. R. Khatun 32 (1986) Stylidiaceae 1 2 A. M. Huq 33 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2 2 A. M. Huq& H. Hasan 37 (1988) Peperomiaceae 1 1 B. Khan	27 (1984)	Trapaceae	1	2	M. S. Khan &M. Halim
29 (1985) Juncaceae 1 1 M. M. K. Mia & A. M. Huq 30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 3 M. K. Alam & B. M. R. Khatun 32 (1986) Stylidiaceae 1 2 A. M. Huq 33 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2 2 A. M. Huq& H. Hasan 37 (1988) Peperomiaceae 1 1 B. Khan	28 (1985)	Hydrocharitaceae	6	9	M. S. Khan & M. Halim
30 (1985) Convolvulaceae 15 59 M. S. Khan 31 (1986) Aviceniaceae 1 3 M. K. Alam & B. M. R. Khatun 32 (1986) Stylidiaceae 1 2 A. M. Huq 33 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2 2 A. M. Huq& H. Hasan 37 (1988) Peperomiaceae 1 1 B. Khan	29 (1985)	Juncaceae	1	1	M. M. K. Mia & A. M. Huq
31 (1986) Aviceniaceae 1 3 M. K. Alam & B. M. R. Khatun 32 (1986) Stylidiaceae 1 2 A. M. Huq 33 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2 2 A. M. Huq& H. Hasan 37 (1988) Peperomiaceae 1 1 B. Khan	30 (1985)	Convolvulaceae	15	59	M. S. Khan
32 (1986) Stylidiaceae 1 2 A. M. Huq 33 (1986) Loranthaceae 7 15 M. K. Alam 34 (1987) Aizoaceae 2 2 M. S. Khan & M. Halim 35 (1987) Bixaceae 1 1 M. S. Khan & M. Halim 36 (1987) Burseraceae 2 2 A. M. Huq& H. Hasan 37 (1988) Peperomiaceae 1 1 B. Khan	31 (1986)	Aviceniaceae	1	3	M. K. Alam & B. M. R. Khatun
33 (1986)Loranthaceae715M. K. Alam34 (1987)Aizoaceae22M. S. Khan & M. Halim35 (1987)Bixaceae11M. S. Khan & M. Halim36 (1987)Burseraceae22A. M. Huq& H. Hasan37 (1988)Peperomiaceae11B. Khan	32 (1986)	Stylidiaceae	1	2	A. M. Hua
34 (1987)Aizoaceae22M. K. Hulm35 (1987)Bixaceae11M. S. Khan & M. Halim36 (1987)Burseraceae22A. M. Huq& H. Hasan37 (1988)Peperomiaceae11B. Khan	33 (1986)	Loranthaceae	7	15	M. K. Alam
35 (1987)Bixaceae11M. S. Khan & M. Halim36 (1987)Burseraceae22A. M. Huq& H. Hasan37 (1988)Peperomiaceae11B. Khan	34 (1987)	Aizoaceae	2	2	M. S. Khan & M. Halim
36 (1987)Burseraceae22A. M. Huq& H. Hasan37 (1988)Peperomiaceae11B. Khan	35 (1987)	Bixaceae	1	1	M S Khan & M Halim
37 (1988) Peneromiaceae 1 1 R Khan	36 (1987)	Burseraceae	2	2	A M Hug& H Hasan
	37 (1988)	Peperomiaceae	1	- 1	B. Khan

Table 1. Published Fascicles of the Flora of Bangladesh from National Herbarium with number of taxa and name of contributors.

38 (1988)	Burmanniaceae	1	1	A. M. Huq
39 (1987)	Elatinaceae	2	4	S. Khan & M. Halim
40 (1989)	Potamogetonaceae	5	5	S. Khan & M. Halim
41 (1989)	Stemonaceae	1	1	A. M. Huq& M. M. Mirza
42 (1989)	Plumbaginaceae	2	4	M. S. Khan & B. Khan
43 (1989)	Cassythaceae	1	1	M. S. Khan & H. Ara
44 (1990)	Hydrocotylaceae	2	2	A. M. Huq& M. M. Rahman
45 (1990)	Costaceae	1	1	M. M. K. Mia &M.M. Rahman
46 (1991)	Xyridaceae	1	2	M. S. Khan & H. Ara
47 (1991)	Periplocaceae	6	7	M. A. Rahman & C. C. Wilcock
48 (1995)	Asclepiadaceae	26	56	M. A. Rahman & C. C. Wilcock
49 (1995)	Menyanthaceae	1	4	M. Khanam
50 (1996)	Combretaceae	6	20	M. M. K. Mia
51 (1996)	Menispermaceae	14	16	M. M. K. Mia
52 (2002)	Annonaceae	15	42	M. Khanum& M. M. Rahman
53 (2002)	Solanaceae	13	34	M. S. Khan & C. Mia
54 (2003)	Malvaceae	14	40	M. S. Khan & S. Hossain
55 (2003)	Cuscutaceae	1	6	M. S. Khan & M. Khanum
56 (2007)	Dilleniaceae	2	5	S. N. Uddin
57 (2007)	Capparaceae	4	13	M.M.K. Mia, H. Ara & B. Khan
58 (2008)	Lamiaceae	34	83	M. Khanum& M. A. Hassan
59 (2009)	Sapindaceae	12	21	S. N. Uddin
60 (2009)	Lecythidaceae	3	6	H. Ara & M. A. Hassan
61 (2014)	Rhamnaceae	5	11	H.Ara& MA Hassan
62 (2014)	Sabiaceae	2	5	S. N. Uddin
63 (2015)	Vitaceae	8	33	M.E. Rashid & M.A. Rahman
Fascicles: 63	Total families: 75	Total Genera:	Total species:	No. of Contributors: 20
Duration: 45 yrs		288	629	

Contribution of other Institutions

Since independence of Bangladesh, botanists of Dhaka University (DU), Chittagong University (CU), Jahangirnagar University (JU) and Rajshahi University (RU), Bangladesh Forest Research Institute (BFRI) and BCSIR (Bangladesh Council for Scientific and Industrial Research) Laboratories, Chittagong were involved in conducting botanical explorations throughout the flora independently as a part of their academic and research activities and post-graduate research projects which indeed parts of systematic survey towards the complete inventory of the flora. Under such research projects, a number of angiosperm families as well as a number of local floras were completely inventoried, checklists published and data with collections made available for Flora writing. This process of inventorying local floras through post graduate projects could enhance the progress of completing the whole flora. Based on this idea, MA Hassan and others of DU, ABM Enayet Hossain of JU, and MA Rahman and others of CU, following MS Khan, were conducting inventories of local floras through postgraduate research projects. Some of the important local inventories made by different contributors are hereby mentioned below: Chittagong Hill Tracts (Khan and Banu1969, 1972); St. Martin's Island (Khan et al. 1984); Moheskhali Island (Huq and Khan 1984); Hatia Island (Huq1988); Teknaf Game Reserve (Khan et al. 1994); Bhawal National Park (Rahman and Hassan 1995); Kutubdia (Huq1996); Sitakunda forest of Chittagong (Rahman and Uddin 1997); Chandra beel (Yusuf et al. 1997); Sitapahar at Kaptai (Uddin et al. 1998); Himchari National Park (Uddin and Rahman 1999); Chunati Wildlife Sanctuary (Khan and Hug 2001); Madhupur National Park (Rashid and Mia 2001); Rema-Kalenga Wildlife Sanctuary -Monocot/Dicots (Uddin et al. 2002, 2003); Rema-Kalenga Wildlife Sanctuary (Uddin and Hassan 2004); Lalmai Hills (Hossain et al. 2005); Chittagong University Campus (Momen et al. 2006);

Ramgarh upazila of Khagrachari (Islam *et al.* 2009); Runctia Sal Forest – Monocot/Dicots (Tutul *et al.* 2009, 2010); Ramgarh forest (Islam *et al.* 2009); Lawachara National Park (Uddin and Hassan 2010); Satchari National Park, Habiganj (Arefin *et al.* 2011); Rampahar reserve forest of Kaptai – Dicot (Rahman *et al.* 2012); Rampahar Reserve forest of Kaptai- Monocot (Uddin and Hassan 2012); Upper Rezu Reserve Forest (Uddin *et al.* 2013); Barayadhala NP (Rahman *et al.* 2015); Hakaluki Haor, ECA (Rahman *et al.* 2016) and Hazarikhil Wildlife Sanctuary (Rahman 2017). In the recent years, botany departments of different universities have produced a good number of quality taxonomists whom could not yet been engaged in the expected fields due to lack of government policy and initiation.

University of Chittagong

The floristic survey and collection of specimens towards the inventory of the south-east part of the Flora of Bangladesh has also been conducting under Aberdeen University (AU)-Chittagong University (CU) Biodiversity Link Project leaded by MA Rahman of CU and CC Wilcock of AU. The project was initially funded by DFID managed by the British Council of Dhaka for three years (1997-1999). Later the project was sustained through a small grant from Ministry of Agriculture through BARC and very recently by two other separate funds of the Ministry of Science & Technology and the Ministry of Education. Professor Rahman and his co-workers explored more than 60% areas of the flora, collected, identified and preserved more than 10000 specimens at the *Herbarium of Chittagong University* (HCU). A number of Local floras and Family wise inventories were made, check lists published and data bank made available for Flora wring.

Asiatic Society of Bangladesh

In the recent years, the Asiatic Society of Bangladesh has published the Encyclopedia of Flora and Fauna of Bangladesh in 12 volumes, of which 7 volumes are with the compilation of angiosperms containing 3447 species in 199 families (Siddiqui 2007, Ahmed et al. 2008a, 2008b, 2008c, 2009a, 2009b, 2009c). It was also made possible only due to the joint efforts of the taxonomists of Dhaka University, Chittagong University, Jahangirnagar University, Bangladesh National Herbarium (BNH), Bangladesh Forest Research Institute (BFRI) and Bangladesh Council for Scientific and Industrial Research (BCSIR) which was carried out under a 5-year project of the Asiatic Society of Bangladesh funded by the Ministry of Forest and Environment and the Ministry of Finance of the Government of Bangladesh. Among major contributors of the Encyclopedia of Flora and Fauna of Bangladesh, MA Hassan (Polygonaceae, Bignoniaceae, Bombacaceae), M Begum (Acanthaceae), MO Ullah (Cucurbitaceae, Euphorbiaceae) and A Ullah (Apiaceae) of Dhaka University; ABM Enayet Hossain (Asteraceae) of Jahangir Nagar University; MA Rahman (Asclepiadaceae, Apocynaceae, Periplocaceae, Rubiaceae, Vitaceae) and MK Huda (Ochidaceae) of Chittagong University; MK Alam (Commelinaceae, Fagaceae, Lorenthaceae) of BFRI; M Yusuf (Zingiberaceae) of BCSIR; M Khanam (Annonaceae, Lamiaceae), MM Rahman (Poaceae), MK Mia (Combretaceae, Menispermaceae), BM Rezia (Begoniaceae, Boraginaceae, Caesalpiniaceae), H Ara (Araceae, Rhamnaceae), B Khan (Convolvulaceae, Euphorbiaceae) and SN Uddin (Celastraceae) of National Herbarium, are noteworthy.

Assessment/ Inventory of threatened taxa and Production of Red Data Book

Prof. M.S. Khan himself initiated the inventorying of threatened plants of the flora and produced first volume entitled, *Red Data Book of Vascular Plants of Bangladesh* (Khan *et al.* 2001) with 106 species from 46 families which covered only 2% of the estimated number of species (Rahman *et al.* 2010). The preparation of an additional list of threatened species with full details for the entry to the *Red Data Book* had also been conducted under Aberdeen University-Chittagong University (AU-CU)

Biodiversity Link Project during 1997-2001, the first report was made by Rahman (2003) with 18 threatened species, and second report with 58 species (Rahman *et al.* 2010). The second volume of the *Red Data Book of Vascular Plants of Bangladesh* has also been produced by Ara *et al.* (2013) from National Herbarium with 120 threatened species under 58 families contributed by different authors. In these 2 volumes of RDB a total of 226 species, including 214 angiosperms and 4 gymnosperms and 8 pteridophytes, from different families were enumerated. This assessment of threatened taxa is not a family wise systematic inventory rather sporadic. However, family wise systematic inventory of threatened taxa has been initiated by MA Rahman of Chittagong University since 2010, and produced a *Red Data Book of Flowering plants of Bangladesh* (Rahman 2013) with the result of a complete inventory of 13 angiosperm families consisting of 235 taxa under different threatened categories including 69 species presumed to be extinct from the flora. Complete inventory result of these 13 families reveals that 41% species of Bangladesh are environmentally threatened and 11.5% are possibly lost from the flora which is an alarming to the sustainability of the environment.

New discovery, new record and Endemics

Since independence of Bangladesh, 12 new species and 2 new varieties were discovered from the flora of Bangladesh, these are, Ampelygonum salarkhanii Hassan (1991) and Persicaria eciliata Hassan (1996) belong to the Polygonaceae, Boesenbergia islamii Yusuf and Rahman (2003), Curcuma roxburghii Rahman and Yusuf (2012), Curcuma wallichii Rahman and Yusuf (2012), Curcuma wilcockii Rahman and Yusuf (2012), Globba rahmanii Yusuf (2003), Mantisia salarkhanii Rahman and Yusuf (2002), Zingiber salarkhanii Rahman and Yusuf (2013) belong to the Zingiberaceae, Cuscuta chittagongensis Gupta et al. (1983) belong to the Cuscutaceae, Gomphostemma salarkhaniana Khanamand Hassan (2003) of the Lamiaceae, Gymnema acuminata var. glabrum Rahman and Wilcock (1990), Tylophora indica var. intermedia Rahman and Wilcock (1988) belong to the family Asclepiadaceae, Periploca acuminate Rahman and Wilcock(1991) belonging to the Periplocaceae. The distribution of these new taxa outside Bangladesh are not yet known, hence are regarded as endemic to Bangladesh. Besides, more than 220 species of angiosperms were reported as new records from the flora of Bangladesh by different workers, like, MS Khan, AM Huq, MK Mia, M Halim, MM Rahman H Ara, B Khan, SN Uddin of National Herbarium; MA Hassan, M Begum, MO Rahman, MZ Uddin of Dhaka University, ABM Hossain of Jahangirnagar University, MA Rahman, MH Rashid, SB Uddin, MK Huda, ME.Rashid of Chittagong University, DK Das, MK Alam of BFRI and M Yusuf of BCSIR Chittagong. The flora is also known to be rich with a number of type species and endemics at or below species level. Hook.f. (1872-1897) in his the Flora of British India recorded 1416 taxa from the area of Bangladesh of which more than 24% species are known to be reported based on the types from Bangladesh (Rashid 2014). Rahman and Rashid (2012, 2013) reported 29 species, including 2 varieties belonging to 19 families, as endemic to Bangladesh. Some of the noteworthy endemics are: Hedvotis thomsonii Hook.f. and Tarenna scandens Roxb. (Rubiaceae), Knema bengalensis W.J.J.O. de Wilde (Myristicaceae), Lagenandra gomezii (Schott) Bogner and Jacobson (Araceae); Limnophila cana Griff. (Schrophulariaceae), Litseaclarki Prain (Lauraceae), Nothopegia acuminate J. Sinclair(Anacardiaceae), Rotalasimpliciuscula (Kurz) Koehne (Lythraceae); Taxillustheolocarpa (Hook.f.) Alam (Loranthaceae) and Vernoniathomsoni Hook.f. (Asteraceae).

Inventory of medicinal plant diversity

Medicinal plants occurring in the flora of Bangladesh have not yet been completely inventoried. Two medicinal books (Ghani 2003, Yusuf *et al.* 2009) have been published with about 500 species from the flora of Bangladesh. There are also a number of sporadic publications on the medicinal plants of

Bangladesh made by Khan and Huq (1975, Hassan and Huq (1993), Rahman *et al.* (2003a, 2003b, 2006, 2009). Prof. Rahman of Chittagong University for the first initiated the family wise inventorying of medicinal plants of the flora of Bangladesh and at least 18 families consisting of 313 medicinal species (out of 962 species) have been completely inventoried so far (Rahman *et. al.* 2009, 2012). Rahman (2018) very recently reported the result of inventory of 36 families in his **Red List of Medicinal Plants of Bangladesh** resulting 313 medicinal species out of 962 species which indicates more than 32% medicinal components occurring in the flora (Rahman *et al.* 2008, 2011). This inventory also shows that 20% medicinal plants of the flora are environmentally threatened at various degrees which need to prioritize conservation management.

Bangladesh National Herbarium is now well equipped set up in a modern building at its own campus. But due to lack of sufficient trained staff and adequate funding, the floristic survey and flora writing could not be progressed at a faster rate. As per 3611 species and 199 families of the flora cited in EFFB (Encyclopedia of Flora and Fauna of Bangladesh) (Siddiqui 2007), it is about 17.42% species in 75 families so far inventoried during 1972–2016 and remaining 82.58% species belonging to 124 families are yet to be inventoried. While as per estimated number of species (c.5000 species, c.220 families) of the flora, it is only about 12.58% species in 75 families so far inventoried and 87.42% species belonging to nearly 145families still left. Since systematic survey of different local floras through extensive botanical explorations was made from different universities and published data were made available, it is therefore a good source to be used for completing the inventory the whole flora speedily. On the other hand, sufficient trained taxonomists, more research facilities and adequate funding are required for the *Herbarium*. Participatory Flora project with the university botany departments and BFRI is required for enhancing training facilities and conducting inventory of the flora on urgent basis before disappearing of its vulnerable components.

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