

ANNUAL REPORT

2015-18



MEGHALAYA BIODIVERSITY BOARD

FOREWORD

It gives me immense pleasure to note that the compilation of the Annual Reports of the Meghalaya Biodiversity Board (MBB) 2015-2018 is being released.

Meghalaya is rich in biodiversity, traditional knowledge and culture. Many rare, endemic and endangered species of flora and fauna are naturally thriving here. However, of late, the biodiversity of the State has become vulnerable to factors like forest degradation, mining, soil erosion, water pollution and urbanization. Creating awareness among all the stakeholders is the first and foremost step in safeguarding the valuable biodiversity from these threats.

The Meghalaya Biodiversity Board was constituted to implement the provisions of the Biological Diversity Act, 2002. Eversince its inception, the Board has been striving to achieve the objectives enshrined in the Act, *viz*, biodiversity conservation, sustainable use of the bio-resources and ensuring a fair and equitable sharing of benefits arising out of the bio-resources, etc. MBB has strived to lay road maps for conserving and monitoring sustainability of the available biological resources. The urge to achieve more, to undertake new and unique challenges is still on and the resolve is to improvise through past endeavours. The Annual Reports of the Board compiled in this volume for the years 2015-2018 is a brief narrative of the activities and significant achievements of the MBB during 2015-2018, which I hope would appeal to its readers.

It is heartening to note that since its inception, the Board has taken some significant steps towards conserving biodiversity and is fully geared to play a more constructive role in the future. I wish to place on record the gratitude of the Board to all those who have made positive contribution to help us achieve the aforesaid objectives.

I would like to thank the State Government of Meghalaya, the National Biodiversity Authority for their continued support and encouragement as we make efforts towards the implementation of the Biological Diversity Act, 2002.



P.W. Ingty, IAS
Chairman, Meghalaya Biodiversity Board &
Additional Chief Secretary, Forest & Environment Dept.
Government of Meghalaya

PREFACE

It gives me great pleasure in presenting the Annual Report of Meghalaya Biodiversity Board (MBB) for the years 2015-2016, 2016-2017 and 2017-2018. The Annual Report reflects the activities carried out by the Board besides giving glimpse of the achievements in the implementation of the Act in conserving Meghalaya's rich biodiversity.

The Board constituted in 2010, strives to achieve the objectives outlined in the Biological Diversity Act (2002), Biological Diversity Rules (2004) and the Meghalaya Biological Diversity Rules (2010) by joining hands with the local communities, through various awareness programmes and conservation measures, which aim at achieving conservation of biodiversity, sustainable use of its resources and a fair and equitable sharing of benefits arising from such use. So far, two hundred and eighty (280) Biodiversity Management Committees have been constituted in the State, forty five (45) People's Biodiversity Registers (PBR) have already been prepared and sixty four (64) more PBRs are under preparation. Recently, Khlaw Kur Syiem KmieIng has been notified by the Government of Meghalaya as Biodiversity Heritage Site (BHS) vide Notification No. FOR.53/2018/59 dated 13th December, 2018, under sub-section (1) of section 37 of the Biological Diversity Act (2002). The site is situated in Umkon village, Umling Block in Ri-Bhoi District. Further, documentation of "Meghalaya State Biodiversity Strategy and Action Plan (MBSAP) 2017-2030" has been completed and would be published shortly.

I sincerely request all the stakeholders to actively participate and assist the Board in achieving the objectives set out by it in the interest of biodiversity conservation.

I express my gratitude to the National Biodiversity Authority for their continued financial and technical assistance to the MBB for carrying out its functions and duties under the Biological Diversity Act, 2002.

I express my thankfulness to the Members of the Board and the Expert Committees for their committed efforts and valuable guidance. I would also like to record my appreciation to the staff of MBB for their unstinted efforts in taking the Board forward and assisting it in bringing out the Annual Report 2015-2018.



M. B. K. Reddy, IFS
Secretary
Meghalaya Biodiversity Board

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1 Overview of Meghalaya Biodiversity Board

Introduction:

Biodiversity or 'Biological Diversity' is a term that describes the variety of living beings on Earth. Specifically, Biological Diversity means the variability among living organisms from all sources including, inter alia, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are a part; this includes diversity within species, between species and of ecosystems (CBD, 1992).

Biodiversity is fundamental in sustaining life on Earth. It provides air to breathe, water to drink and food to eat. Human population depends on biodiversity for meeting their basic needs such as food, clothing, medicines and building materials.

India is one of the 17 mega-diverse countries. It has only 2.4 % of the world's land area but harbors 6.7% of the animal species and 9.13% of the floral diversity of the world. The North Eastern India is one of the biologically richest regions of the country.

Meghalaya is situated in the North East India bio-geographic zone (along with Assam, Nagaland, Manipur, Mizoram and Tripura) which is a significant region as it represents a transition zone between the Indian, Indo-Malayan, Indo-Chinese bio-geographic regions as well as a meeting place of Himalayan mountains with that of Peninsular India. The region is one of the richest in biological values with vegetation types ranging from tropical rain forest in the foothills to Alpine meadows and cold deserts. The State also represents an important part of the Indo-Burma biodiversity hotspot which is one of the four biodiversity hotspots present in India. The State of Meghalaya has been identified as a key area for biodiversity conservation due to its high species diversity and high level of endemism.

Biodiversity Administration in India:

As mentioned above, India is one of the mega biodiversity countries in the world. Hence, it adopted the Convention on Biological Diversity (CBD) on 18th February, 1994 and became Party to the Convention in 19th May, 1994. The CBD is an international legal instrument for fostering conservation of the declining biodiversity resources of the world. In fulfillment of its commitment to put in place domestic legislations to implement the provisions of the CBD, India enacted the Biological Diversity Act, 2002. The CBD as well as the Biological Diversity Act have the same three objectives, viz., conservation of biological diversity, sustainable use of its components and ensuring a fair and equitable sharing of benefits arising out of bio resources in the Country.

On 5th February, 2003, The Biological Diversity Act, 2002 received the assent of the President of India for preservation of biological diversity in India, and provides a legal mechanism for establishing sovereign rights over the indigenous biodiversity within the Country, its conservation, protection, regulation of access and sustainable use. The Government of Meghalaya enacted the Meghalaya Biological Diversity Rules in 2010 (MBDR, 2010) in exercise of its powers under Section 63 (1) of the Biological Diversity Act 2002 for carrying out the purpose of this Act in the State.

The rich Indian Biodiversity is administered under the provisions of the Biological Diversity Act and the bodies mentioned therein, namely, the National Biodiversity Authority (NBA) at the National level, the State Biodiversity Board at the State level and the Biodiversity Management Committees at the 'local body' level.

Constitution of the Meghalaya Biodiversity Board:

The Meghalaya Biodiversity Board (MBB) was constituted vide Notification No. FOR. 57/2002/Pt/308 dated 20th March, 2012 in accordance with Section 22 (1) of the Biological Diversity Act, which states 'each state shall establish a State Biodiversity Board' and Section 63 (1) of the Biological Diversity Act, 2002, which states 'every state government shall make rules for carrying out the purposes of this Act'.

Composition of the Board:

The Board is headed by a Chairman of the rank of Additional Chief Secretary/Principal Secretary to the Government of Meghalaya, holding the charge of Forest & Environment Department. Apart from the Chairman, the Board has five Ex-Officio Members from related Departments of the Government of Meghalaya and five Non-Official Members. The Officer in-Charge of Biodiversity, in the Forest & Environment Department of the Government of Meghalaya, functions as Member Secretary of the Board.

Chairman of the Board: Shri P.W Ingty, IAS, Additional Chief Secretary to the Govt. of Meghalaya (Forest & Environment).

Secretary of the Board: Shri. M.B.K Reddy, IFS.

Ex-officio members: (Rule 9 of MBDR, 2010)

Sl. No	Designation
1	PCCF & HoFE, Forests & Environment Department
2	Director, Agriculture Department
3	Director, Animal Husbandry & Veterinary Department
4	Director, Fisheries Department
5	Director, School Education & Literacy Department

Non-official members: (Rule 6 of MBDR, 2010)

Sl. No	Name	Designation
1	Prof. S. K. Barik	Dept. of Botany, NEHU, Shillong
2	Shri. K.C.Momin	Retd. Director (Soil & Water Conservation Dept.), Govt. of Meghalaya, Shillong.
3	Dr. Natalie W. Kharkongor	Associate Prof., IIM, Shillong.
4	Dr. Kalkame Cheran Momin	NEHU, Tura
5	Dr. Carl Oswald Rangad	Retd. Director of Horticulture Dept. Govt. of Meghalaya.



Staff of the Board (on contract)

SL No.	Designation	Number of Posts
1	Scientist	1
2	Taxonomist	1
3	Administrative Assistant	1
4	Accountant	1
5	DTP Operator	1
6	DTP Operator cum Web Publisher	1
7	Multitasking	1
8	Driver	1
9	MSW (Constitution of BMC)	2
10	Project Assistants	5
11	Language Expert	1
12	BMC Assistant	1

Office of the Board: Meghalaya Biodiversity Board is situated in the Silviculture Building, Lower Lachumiere, Shillong - 793001.

Functions and Duties of Meghalaya Biodiversity Board

The Board has the following functions:

- i. Lay down the procedure and guidelines to govern the activities provided under Section 23 of the Act.
- ii. Advise the State Government on many matters concerning conservation of bio-diversity, sustainable use of its components and fair and equitable sharing of benefits arising out of the use of biological resource and knowledge.
- iii. Provide technical assistance and guidance to the departments of the State Government.
- iv. Regulate by granting of approvals or otherwise requests for commercial utilization or bio-survey and bio-utilization of any biological resource by Indian Nationals.
- v. Facilitate updating and implementations of State Biodiversity Strategy and Action Plan.
- vi. Commission studies and sponsor investigations and research.
- vii. Engage consultants for a specified period, not exceeding three years, for providing technical assistance to the Board in the effective discharge of its functions. Provided that if it is necessary and expedient to engage any consultant beyond the period of three years, the Board shall seek prior approval of the State Government for such an engagement.
- viii. Collect, compile and publish technical and statistical data, manuals, codes or guides relating to conservation of biological biodiversity, sustainable use of its components and fair and equitable sharing of benefits arising out of the use of biological resource and knowledge.
- ix. Organize through mass media a comprehensive programme regarding conservation of biological biodiversity, sustainable use of its components and fair equitable sharing of benefits arising out of the use of biological resources and knowledge.

- x. Plan and organize training of personnel engaged or likely to be engaged in programmes for the conservation of bio-diversity and sustainable use of its components.
- xi. Take steps to build-up database and to create information and documentation system for biological resources and associated traditional knowledge through biodiversity registers and electronics data bases so as to ensure effective management, promotion and sustainable uses of bio resources.
- xii. Give directions to the local bodies/Biodiversity Management Committees in writing and through appropriate oral means, for effective implementation of the Act, and to facilitate their meaningful participation in all measures relating to conservation, sustainable use, and equitable benefit sharing.
- xiii. Report to the State Government about the functioning of the Board and implementation of the Act and Rules made there under.
- xiv. Recommend, prescribe, modify, collect fee of biological resources from time to time.
- xv. Devise methods to ensure protection of rights including intellectual property rights over biological resources and associated knowledge including systems of maintaining confidentiality of such information as appropriate, including the protection of the information recorded in People's Biodiversity Registers.
- xvi. Sanction grants-in-aid and grants to Biodiversity Management Committees for specific purposes.
- xvii. Undertake physical inspection of any area, in connection with the implementation of the Act.
- xviii. Ensure that biodiversity and bio-diversity dependent livelihoods are integrated into all sectors of planning and management and at all levels of planning from local to State, to enable such sectors and administrative levels to contribute effectively for conservation and sustainable use.
- xix. Prepare the annual budget of the Board incorporating its own receipts as also the devolution from the State and Central Government provided that the allocation by the Central Government shall be operated in accordance with the budget provisions approved by the Central Government.
- xx. The Board has powers for granting administrative and technical sanctions to all estimates. It may, delegate such powers of administrative and technical sanctions to the Member Secretary of the Board, if deemed necessary.
- xxi. Recommend creation of posts to State Government, for effective discharge of the functions by the Board and to create such posts; provided that no such post whether permanent/temporary or of any nature, is created without prior approval of the State Government.
- xxii. Perform such other functions, as may be necessary to carry out the provisions of the Act or as may be prescribed by the State Government from time to time.



Details of the District Nodal Officers

The following District Nodal Officers have been nominated to co-ordinate the activities of the Board at the district level and guide the BMCs. The Government of Meghalaya has also notified Technical Support Groups in every district to offer technical guidance to the BMCs.

SI No.	Name of the District-TSG	District Nodal Officer cum Convenor
1	East Khasi Hills, TSG, Shillong	DFO (EKH Wildlife Division), Shillong
2	West Khasi Hills, TSG, Nongstoin	DFO (WKH Social Forestry Division), Nongstoin
3	South West Khasi Hills, TSG, Mawkyrwat	DFO (EKH Social Forestry Division), Shillong
4	East Jaintia Hills, TSG, Khliehriat	DFO (JH Social Forestry Division), Jowai
5	West Jaintia Hills, TSG, Jowai	DFO (JH Wildlife Division), Jowai
6	Ri-Bhoi, TSG, Nongpoh	DFO (Ri-Bhoi Social Forestry Division), Nongpoh
7	North Garo Hills, TSG, Resubelpara	DFO (E&W Wildlife Division), Tura
8	West Garo Hills, TSG, Tura	DFO (E&W Wildlife Division), Tura
9	East Garo Hills, TSG, Williamnagar	DFO (EGH Social Forestry Division), Williamnagar
10	South Garo Hills, TSG, Baghmara	DFO (BNP), Baghmara
11	South West Garo Hills, TSG, Ampati	DFO (WGH Social Forestry Division), Tura

Composition of Technical Support Groups (TSG)

1. Divisional Forest Officer having his office/jurisdiction in the district nominated by the PCCF & HoFF- District Nodal Officer and Convener.
2. Representative nominated by the Animal Husbandry & Veterinary Department, Govt. Of Meghalaya.
3. Representative nominated by the Fisheries Department, Govt. Of Meghalaya.
4. Representative nominated by the Agriculture Department, Govt. Of Meghalaya.
5. Representative nominated by the Autonomous District council concerned.
6. Representative nominated by the Meghalaya Basin Development Authority (MBDA), Govt. Of Meghalaya.
7. Representative nominated by the Botanical Survey of India, Shillong Centre.
8. Representative nominated by the Zoological Survey of India, Shillong Centre.
9. Two members nominated by the Deputy Commissioner of the District, from among the Conservationists/NGOs/prominent individuals of the District.



Duties and Functions of the Technical Support Group (TSG)

- i. Provide technical guidance to the Biodiversity Management Committees (BMCs) in the district in the preparation of the Peoples' Biodiversity Registers (PBRs).
- ii. Provide technical guidance to the Biodiversity Management Committees (BMCs) in the district in the preparation of the Biodiversity Management Plans for their respective areas.
- iii. Recommend measures for 'capacity building' of the BMCs under their jurisdiction and offer their expertise in the training programmes.
- iv. Recommend to the Meghalaya Biodiversity Board (MBB), potential areas rich in biodiversity/cultural heritage for the establishment of BMCs and/or for their declaration as Biodiversity Heritage Sites (BHS).
- v. Help the Meghalaya Biodiversity Board (MBB) in its negotiations with the individuals/community/other stake holders for the purposes of implementation of the Biological Diversity Act, 2002 and in awareness campaigns.
- vi. The District Nodal Officer shall nominate a forest staff, preferably in the rank of Forester, to function as Secretary to each of the BMCs/group of BMCs constituted in the district for guiding the BMCs in account keeping and record maintenance.
- vii. Meet as frequently as deemed fit (mandatory meeting at least once in 6 (six) months). The Divisional Forest Officer, who is also a member of the TSG, convenes the meetings in his capacity as the District Nodal Officer cum Convenor of the TSG. The TSG is free to devise its own rules/methods for conducting business including determination of the quorum and the decision making process.
- viii. The minutes of each meeting of the TSG are recorded and submitted to the Meghalaya Biodiversity Board (MBB), by the District Nodal Officer cum Convener of the TSG.



2 Documentation of Biodiversity and Assistance to the BMCs through preparation of PBRs

One of the main functions of the Board is to form a database to create information and documentation system for biological resources and associate traditional knowledge through preparation of biodiversity registers and such other documents. Such documents would ensure effective management, promotion and sustainable use of bio-resources. The Board has granted several research projects on biodiversity of Meghalaya to qualified research personnel. The technical staff of the Board too are currently engaged in documenting different components of biodiversity of the State.

The main function of the Biodiversity Management Committees (BMCs) is to prepare PBR in consultation with the local people which contains comprehensive information on local biological resources. The Board has organized Peer to Peer learning visits for the benefit of BMC members to West Bengal (June 2016) & Kerala (November 2016). The Board has also sponsored four (4) community leaders from Meghalaya to participate in the 7th National convention and training program held from 19th to 21st February, 2016 conducted by IBRAD, Kolkata on “Participatory Biodiversity Conservation and Sustainable Livelihood in the Context Of Climate Change” SANCALP (Sustainable Action and Network through Community Leader’s Program) - 2016. Currently, the Board has engaged three expert organizations *viz.* IBRAD (Institute of Bio-resources and Development), Kolkata, ENDEV (Society for Environment & Development), Kolkata and NEHU (North Eastern Hill University), Shillong for the preparation of 94 PBRs covering BMCs and villages in the Gram Sevak Circles, of which 30 PBRs have been completed and preparation of 64 PBRs is nearing completion by the other organizations. Fifteen PBRs have already been completed in 2012-13 by the Board themselves in-house.

Table 1: List of the PBRs completed using in-house expertise.

SI No.	Name of the village	District	Block
1	Diwon	Ri-Bhoi	Umling
2	Khullia	Ri-Bhoi	Umling
3	Lailad (Nongkhlaw Syiemship)	Ri-Bhoi	Jirang
4	Lawbah	East Khasi Hills	Mawsynram
5	Mawkasain	East Khasi Hills	Mawsynram
6	Mawlyngbna	East Khasi Hills	Mawsynram
7	Mawmarin	West Khasi Hills	Nongstoin
8	Mawmyrsiang	East Khasi Hills	Sohiong
9	Mawrapad	East Khasi Hills	Mawsynram
10	New Tasku (Umlyngkdait)	Ri-Bhoi	Jirang
11	Umtasor-Nongjyrmi	Ri-Bhoi	Umsning
12	Nongkhusba	West Khasi Hills	Nongstoin
13	Pahamrioh-them	Ri-Bhoi	Umling
14	Phlangwanbroi	East Khasi Hills	Mawsynram
15	Umtasor- Mawdkhar	Ri-Bhoi	Umsning

Table 2: List of PBRs under preparation in Mawphlang Block, East Khasi Hills (Documented by IBRAD).

Sl. No	Name of the Village	Gram Sevak Circle
1.	Demthring	Lyngkhoi
2.	Shilliang Ktieh	Lyngkhoi
3.	Pepjynrong	Weilyngkut
4.	Weilyngkut	Weilyngkut
5.	Laitsdad	Lyngkhoi
6.	Laitdiker	Pyndenglitha
7.	Mawtap Pyllun	Sohiong
8.	Sohphoh Pyrton	Sohiong
9.	Niamsang	Pyndenglitha
10.	Bangla Sohphie	Kynroh
11.	Jabar Nongneng	Ryngli
12.	Mawkohtep	Rangskhen
13.	Kharngoi	Mawlyngthoh
14.	Jani Mawiong	Rangskhen
15.	Lawshlem	Rangskhen
16.	Nongbsap B	Ryngli
17.	Lyngwa	Weilyngkut
18.	Nongbsap	Ryngli
19.	Sohphoh	Nongspung
20.	Kynroh Mawpat	Kynroh
21.	Krang Nonglum	Khrang
22.	Sohksar A	Kynroh
23.	Dewsaw A	Kynroh
24.	Rimshylla	Kynroh
25.	Kynroh Nonglyer A	Kynroh
26.	Kynroh Nonglyer	Kynroh
27.	Kynroh Nonglum	Kynroh
28.	Kynroh Synrang	Kynroh
29.	Kynroh Nongbri	Kynroh
30.	Kynroh Mot	Kynroh



Table 3: List of PBRs completed in Laitkroh Khatarshnong Block, East Khasi Hills (Documented by NEHU).

Sl. No	Name of the Village	Gram Sevak Circle
1.	12/Mer/Umlympung	Mawjrong-Mawkdok
2.	Mawkdok	Mawjrong-Mawkdok
3.	Mawjrong	Mawjrong-Mawkdok
4.	Nongthymmai - Lumthangding	Laitlyngkot
5.	Mawrah	Swer
	Rangtmah	Swer
6.	Jalynteng	Nongkynrih
7.	Rikyrshang	Swer
8.	Swer	Swer
9.	Sder	Sder
10.	Madanphutbol	Nongkynrih
11.	Laitkynsew Raid Mawlieh	Iewmawiong
12.	Laitmawroh – Ramkheng	Iewmawiong
13.	Laitmawlong-Wahpein	Laitlyngkot
14.	Dympep	Mawjrong-Mawkdok
15.	Laitmawlong	Laitlyngkot

Table 4: List of PBRs completed in Mawphlang Block, East Khasi Hills (Documented by NEHU).

Sl. No	Name of the Village	Gram Sevak Circle
1.	Mawkalum	Mawreng
2.	MawngapMawsmmai	Mawngap
3.	Laitmawhing	Lyngiong
4.	Laitmawpen	Lyngiong
5.	Nongthymmai Rum	Lyngiong
6.	LyngdohPhanblang	Lyngiong
7.	ThainthynrohUmbaker	Lyngiong
8.	Mawkohmon	Mawphlang
9.	Mission Compound	Mawphlang
10.	NongrumMawphlang	Mawphlang



11.	Kyiem	Mawphlang
12.	Sunei	Mawphlang
13.	Laitnongrem	Mawkneng
14.	Wahumjarain	Mawkneng
15.	Wahlyngkien Ramklang	Mawphlang

Table: 5 List of PBRs under preparation in Khatarshnong Laitkroh Block, East Khasi Hills (Documented by ENDEV).

Sl. No	Name of the Village	Gram Sevak Circle
1.	Mawbri	Ladmawphlang
2.	Dewlich	Ladmawphlang
3.	Jathang	Ladmawphlang
4.	Nongtraw	Ladmawphlang
5.	Diengsong	Sohrarim
6.	Laitlyndop	Sohrarim
7.	Wahsohra	Sohrarim
8.	Sorarim	Sohrarim
9.	Mawmihthied	Sohrarim
10.	Mawkma	Sohrarim
11.	Mawstep	Pyrda-Kukon
12.	Laitsohpliah	Pyrda-Kukon
13.	Mawbeh	Mawbeh
14.	Laitumiong	Mawbeh
15.	Wahstew	Mawbeh
16.	Dienkynthong	Laitkroh
17.	Kinton Syrwa	Laitkroh
18.	Kyrdem Khla	Laitkroh
19.	Mawmyrsiang	Laitkroh

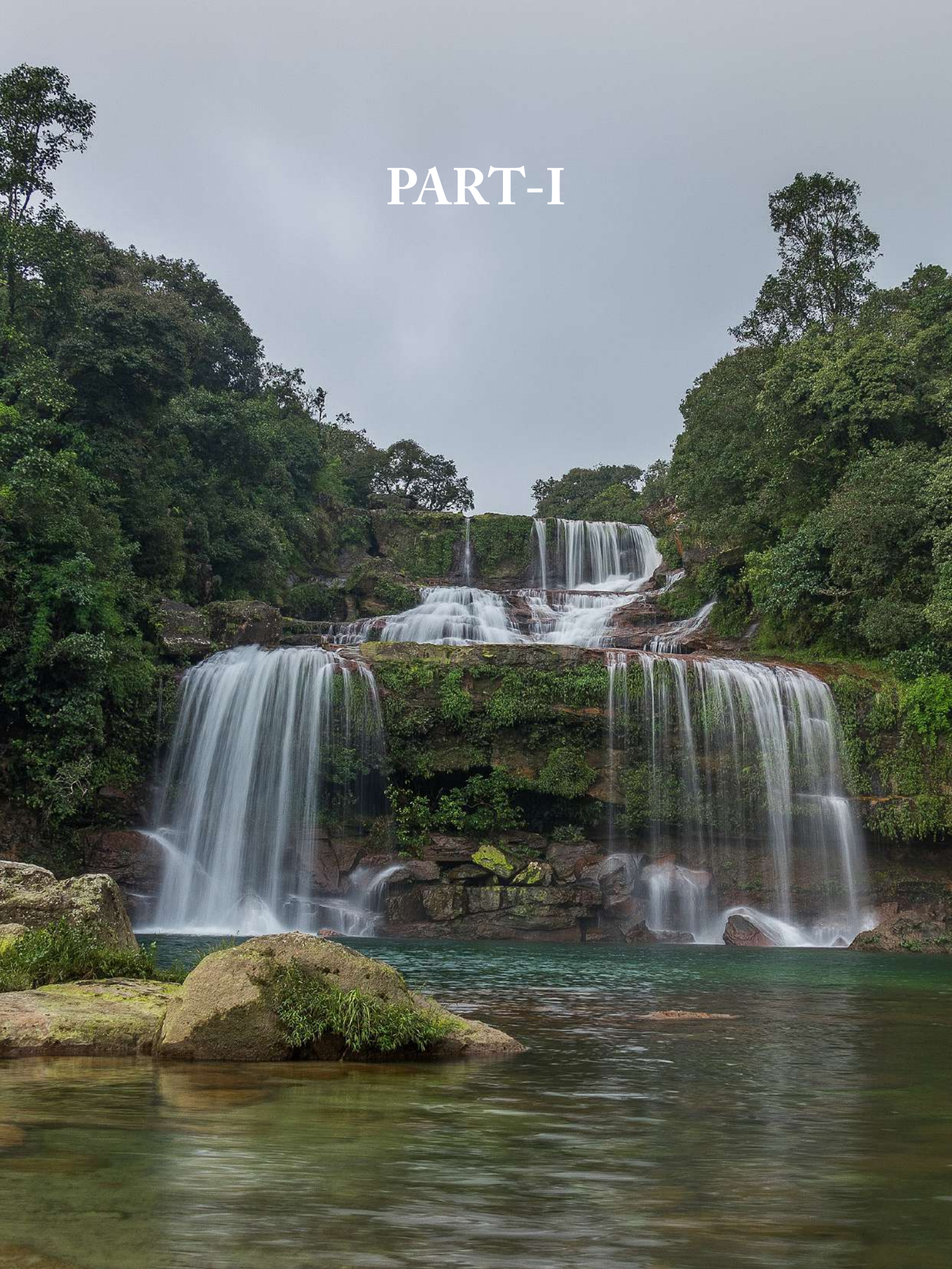


Table: 6 List of PBRs under preparation in Umsning Block (Documented by ENDEV).

Sl. No	Name of the Village	Gram Sevak Circle
1.	Nongkya	Raitong
2.	Lyngsaw	Mawlyngkhung
3.	Banbudai	Mawlyngkhung
4.	Shyntorbulia	Mawlyngkhung
5.	Umkra	Mawlyngkhung
6.	Umsohlang	Umsning
7.	Umran Niangbyrnai	Umsning
8.	Umran Dairy	Umsning
9.	Myrdon Nongbah	Umsning
10.	Kynjoin Umron	Umsning
11.	Umtasor Nongiyirmi	Umsning
12.	Maweitnar	Umsning
13.	Umtasor Mawdkhar	Umsning
14.	Mawhari	Mawhati
15.	Lum Mynri	Zero Point



PART-I



Board Activities for the year 2015-2016

As mentioned in our introduction, the Board came into existence on 20th March, 2012 and the present report describes activities undertaken by MBB during the year 2015-16. Main activities of the Board up to March, 2016 are summarized below:

1. Meetings of the Board for the year 2015-2016

During the year 2015-16, only one meeting which is the 8th meeting of the Board was held on the 27th November, 2015 at the conference Hall of Sylvan House, Lower Lachumiere, Shillong to take its mandate forward. Shri M. S. Rao, IAS, Principal Secretary, Forest & Environment Department cum Chairman of the Board chaired the meeting.

The following agenda items were discussed at the meeting:

- a. A unanimous confirmation of the minutes of the last MBB meeting held on 1st May, 2015.
- b. A follow up on the decisions rendered at the previous Board meeting were discussed.
- c. The Audited account statement report of the Board for the financial years 2012-2013, 2013-2014 and 2014-2015.
- d. Discussion and approval of 'State plan scheme of MBB' for 2015-2016.
- e. Discussion on the following expenditures were placed before MBB for approval:
 - i. Research Grants.
 - ii. IDB celebrations.
 - iii. IDB at Ampati.
 - iv. NYDA for organising awareness programmes at Nongkrem village.
- f. The Board was apprised on the Funds received from NBA and CAMPA for the financial year 2015-16.
- g. Five Year Plan of BMC, PBR and BHS was prepared and put forward for discussion and approval by MBB.

2. International Day for Biological Diversity

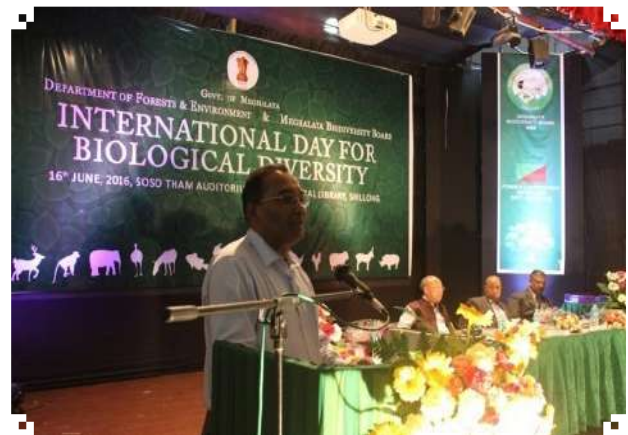
Since the Board's inception, every year on 22nd of May 'International Day for Biological Diversity' is celebrated by the members and staff of the Board throughout Meghalaya and the main event is celebrated at U Soso Tham Auditorium, State Central Library, Shillong. Each year the theme of the celebration changes in accordance with the theme chosen by the National Biodiversity Authority. The following are the details of the IBD celebration for the year 2016:

International Day for Biological Diversity, 2016

Theme: Biodiversity for Sustainable Development.

Photographs of IDB Celebration in the other towns of Meghalaya:

Shillong (East Khasi Hills District):





Mawkyrwat (South West Khasi Hills District):



Nongpoh (Ri-Bhoi District):



Prize Distribution by IDB Celebrations held in other towns of Meghalaya:



3. Number of BMCs formed in the State during the year 2015-16:

The Board along with the help of the Block Development Officer and the District Nodal Officer takes the initiative to form the BMCs throughout the State. Eighteen BMCs were formed in the State by the end of March, 2016 in various villages as detailed below:

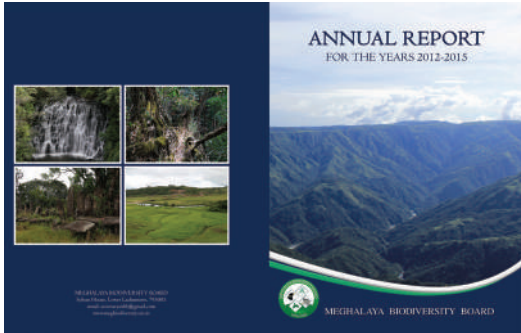
SL No.	NAME	BLOCK	DISTRICT	CHAIRMAN	DATE OF CONSTITUTION	REGISTRATION No.
1	UMRU	UMRU	RI-BHOI DISTRICT	PHILIP PAHSYNTIEW	06.01.2016	BMC/RD/UMRU/98
2	NONGLWAI – II	NONGSTOIN	WEST KHASI HILLS	SHRI LAWRENTYMPUIN	16.01.2016	BMC/WKH/NONGLWAI/100
3	MAWLANGWIR	MAWKYRWAT	SOUTH WEST KHASI HILLS	B. DRALLINTON	22.01.2016	BMC/SWKH/MAWLANGWIR/99
4	BYNDIHATI	KHLIEHRIAT	EAST JAINTIA HILLS	SHRI HAMBERTLIS NONGTUDU	26.01.2016	BMC/EJH/BYNDIHATI/102
5	THADIALONG	LASKEIN	WEST JAINTIA HILLS	SHRI LAKHON LYN-GDOH	04.02.2016	BMC/WJH/THADIALONG/105
6	KHLIEHMUSHUT	SHANGPUNG	WEST JAINTIA HILLS	SHRI NIDAYOO PAPANG	16.02.2016	BMC/WJH/KHLIENMUSHUT/101
7	MOOLANG	KHLIEHRIAT	EAST JAINTIA HILLS	SHRI REPLANG DKHAR	01.03.2016	BMC/EJH/MOOLANG/103
8	UMSALANG	LASKEIN	WEST JAINTIA HILLS	SHRI DIWILING TALANG	12.03.2016	BMC/WJH/UMSALANG/109
9	MUSIAW	LASKEIN	WEST JAINTIA HILLS	SHRI. IONIS LYN-GDOH	12.03.2016	BMC/WJH/MUSIAW/110
10	THADSNING	LASKEIN	WEST JAINTIA HILLS	SHRI LEADERSHON LAWARI	12.03.2016	BMC/WJH/THADSNING/122
11	CHAM CHAM	KHLIEHRIAT	EAST JAINTIA HILLS	SHRI STOP PHAWA	14.03.2016	BMC/EJH/CHAM CHAM/104
12	LATYMPHU	LASKEIN	WEST JAINTIA HILLS	SHRI MIHSABAN RYMBAI	14.03.2016	BMC/WJH/LATYMPHU/124
13	MOOLAMYLLIANG	SAIPUNG	EAST JAINTIA HILLS	SHRI DAMEWANHI RYMBAI	16.03.2016	BMC/EJH/MOOLAMYLLIANG/127
14	BHAIN	LASKEIN	WEST JAINTIA HILLS	SHRI YOOMIKI PAKMA	18.03.2016	BMC/WJH/BHAIN/121
15	SHANGPUNG POHSHNONH	LASKEIN	WEST JAINTIA HILLS	SHRI SHANBOR SUCHIANG	18.03.2016	BMC/WJH/SHANGPUNG POHSHNONH/126
16	KHLIEHRANGNAH	LASKEIN	WEST JAINTIA HILLS	SHRI WANBOK SUTNGA	19.03.2016	BMC/WJH/KHLIEHRANGNAH/111
17	SOHKHAR	UMLING	RI-BHOI	SHRI HALWIS MAL-LAI	24.03.2016	BMC/RB/SOCHKHAR/112
18	DORBAR KUR SYIEM RAID NONGTLUH (CUMMUNITY LEVEL)	UMLING	RI-BHOI	J.M.SYIEM	24.03.2016	BMC/RB/RAID NONGTLUH/113



4. Publications by the Board (2015-2016)

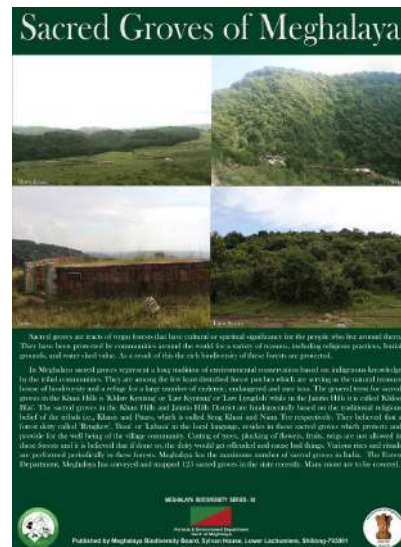
In the year 2015-16, the Board has published the following books and posters to generate awareness regarding the biodiversity of Meghalaya:

1. Books:



Annual Report for the year 2012-2015

Posters



5. Activities of the Board (2015-16)

Meghalaya Biodiversity Board Research Grants:

On 22nd May, 2015 on the occasion of the 'International Day for Biological Diversity', the Board had granted financial aid to Ten Project fellows in the form of 'MBB Research Grants' for conservation/ research projects on biodiversity of Meghalaya. The following are the Research Projects that had been worked on and completed by them:-

S I . No	Name of Candidate	Topic of Research	Budget (Lakhs)	Duration (Months)	Status
1.	Shri. Atanu Bora	Butterflies of Meghalaya	0.75	12	Completed
2.	Shri.D Khlur B. Mukhim	Wroughton's Free- Tailed Bats	1.0	12	Completed
3.	Smt. Dalari Lyngdoh/ Darina Kharshandi & Dr. Aroma Lyngdoh	Wild Edible Fruits of East Khasi Hills	0.75	12	Completed
4.	Smt. Deimaphishisha Lyngdoh/ Gregory A Warjri/ Ialamphang Lyngdoh	Documentation on Biodiversity Rich Areas & Heritage Sites	0.75	12	Completed
5.	Shri. Kanhaiya Lal Chaudhary	Biodiversity Mapping of Surbathiang Bird Sanctuary, Ri-Bhoi District	1.0	12	Completed
6.	Shri. Morningstar War	Conservation of Orchids	0.50	6	Completed
7.	Shri. Pynshailang Syiemiong	Cave Terrestrial Anthro-pods and Aquatic Biota in Mawshyrpait and Riblai Caves	0.75	12	Completed
8.	Shri. Pius Ranee	Bio-Garden-Conservation of Biodiversity	0.75	12	Completed
9.	Shri Pynioolut Miki Ryn-gki	Wild Edible Plants in West Jaintia Hills District	0.75	12	Completed
10.	Smt. Lavinia M Dkhar	Earthworms Diversity in East Khasi hills District.	0.75	12	Completed



6. Research Projects undertaken and completed by the Board:

Seven project assistants along with a Taxonomist have been recruited in 2015-2018, on contract basis, to document various aspects of the biodiversity of the State. They undertake field surveys, if required. Below are the topics on which they have worked upon:

2015-16:

1. Auphelia. B. Syiem:

Diversity, Distribution and Uses of Pteridophyta Flora in Khasi and Jaintia Hills, Meghalaya: The objective of the study is to identify and classify the different Pteridophytes found in the Khasi and Jaintia Hills of Meghalaya along with their uses and methods of conservation.



Scientific Name: *Lepisorus* sp.

Local Name: Tyrkhang



Scientific Name: *Microsorium pteropus*

Local Name: Tyrkhang

2. Baaijingkmen Nongkynrih:

Documentation of Ethno-Botanically Important Species and their Uses in Khasi and Jaintia Hills:

The objective of the study is to document and acquire an understanding of concepts and principles relating to ethno-botanically important species in Khasi and Jaintia Hills.





Scientific Name: *Agapetes variegata*
Local Name: Sohlamut



Scientific Name: *Lentinula adodes*
Local Name: Tit Tung

Survey on Traditional Health Practitioners and Documentation of Different Medicinal Plants and Animals Parts in Khasi and Jaintia Hills: The objective of the study is to document the indigenous knowledge system for medicinal plants and animal parts use and cultural practices associated with the healing process as adopted by traditional healers in Khasi and Jaintia Hills.



Scientific Name: *Swertia chirata*
Local Name: Sharita



Scientific Name: *Phlogacanthus* sp.
Local Name: Marajut stem



3. Pyndaplin Lyngdoh:

Survey on Indigenous Seed Varieties of Meghalaya: The aim of the study is to survey and document all the available indigenous seed varieties found in Meghalaya. It also aims at generating awareness among the people on the importance and use of the indigenous seeds.



Scientific Name: *Gomphogyne cissiformis*



Scientific Name: *Zea mays*

Survey on Indigenous Fruits of Meghalaya: The objective of the study is to survey and document all the available indigenous fruit varieties found in Meghalaya. It also aims at generating awareness among the people on the importance and use of the indigenous fruits.



Scientific Name: *Citrus* sp.



Scientific Name: *Ficus glomerata*



7. Release of Start-up funds to the BMCs:

To set up the Biodiversity Management Committees (BMCs) to promote conservation, sustainable use and documentation of biological diversity all over Meghalaya, the Board has released Start-up funds which are detailed below:

2015-2016:

Date & Year	Place	Amount
19/06/15	Local Biodiversity Fund of Mookaiaw BMC.	60,000
08/10/15	Local Biodiversity Fund of Bolchugre BMC	60,000
08/10/15	Local Biodiversity Fund of Wagepara BMC	60,000
10/11/15	Local Biodiversity Fund of Umran Diary BMC	60,000
10/11/15	Local Biodiversity Fund of Umran Niang-Byrnai BMC	60,000
10/11/15	Local Biodiversity Fund of Byrwa BMC	60,000
10/11/15	Local Biodiversity Fund of Umlakro BMC	60,000
10/11/15	Local Biodiversity Fund of Mynnar Jirang BMC	60,000
10/11/15	Local Biodiversity Fund of Sohkyrbam BMC	60,000
10/11/15	Local Biodiversity Fund of Nongsier BMC	60,000
10/11/15	Local Biodiversity Fund of Centre Village BMC	60,000
10/11/15	Local Biodiversity Fund of Umrit BMC	60,000
10/11/15	Local Biodiversity Fund of Mawdiangum BMC	60,000
10/11/15	Local Biodiversity Fund of Pahamrioh BMC	60,000
10/11/15	Local Biodiversity Fund of Umtasor Nongjyrmi BMC	60,000
10/11/15	Local Biodiversity Fund of Marmain BMC	60,000
10/11/15	Local Biodiversity Fund of Umtasor Mawdkhar BMC	60,000
10/11/15	Local Biodiversity Fund of Raid Nongpoh BMC	60,000
10/11/15	Local Biodiversity Fund of Daribokgre BMC	60,000
2/02/16	Local Biodiversity Fund of Photjaud BMC	20,000
2/02/16	Local Biodiversity Fund of Mawlyngkhung BMC	60,000
1/03/16	Local Biodiversity Fund of Lakadong BMC	20,000
1/03/16	Local Biodiversity Fund of Goka Wakchal BMC	20,000
1/03/16	Local Biodiversity Fund of Jaksongram BMC	20,000
1/03/16	Local Biodiversity Fund of Alatuli BMC	20,000
1/03/16	Local Biodiversity Fund of Dambuk Attong BMC	20,000
1/03/16	Local Biodiversity Fund of Dambuk Jongkol BMC	20,000
1/03/16	Local Biodiversity Fund of Taidong I BMC	20,000
1/03/16	Local Biodiversity Fund of Taidong II BMC	20,000
1/03/16	Local Biodiversity Fund of Teptepa BMC	20,000
1/03/16	Local Biodiversity Fund of Bolbokgre BMC	20,000
31/03/16	Local Biodiversity Fund of Maweitnar BMC	20,000
31/03/16	Local Biodiversity Fund of Umsohma BMC	20,000
31/03/16	Local Biodiversity Fund of Lailad BMC	20,000
31/03/16	Local Biodiversity Fund of Sohkhwai BMC	20,000



31/03/16	Local Biodiversity Fund of Umiong BMC	20,000
31/03/16	Local Biodiversity Fund of Old Jasku BMC	20,000
31/03/16	Local Biodiversity Fund of Umllyngkdiat (New Jasku) BMC	20,000
31/03/16	Local Biodiversity Fund of Umru BMC	20,000
31/03/16	Local Biodiversity Fund of Diwon BMC	20,000
31/03/16	Local Biodiversity Fund of Nonglamjew BMC	20,000

8. Awareness Campaigns: Meghalaya Biodiversity Board has conducted many awareness campaigns to benefit various stakeholders and members of the BMCs on conservation of Biodiversity and on provisions of the Biodiversity Act, 2002, at various places in the State. The list of various awareness programmes conducted throughout Meghalaya (2015-2016) are as follows:

Date & Year	Place/Venue	Programme
19 th November, 2015	District Library Auditoriam at Jowai	Awareness Programme on BMC and PBR
16 th February, 2016	Bishop Hall, Nongstoin	Awareness Programme on BMC and PBR
24 th February, 2016	Khliehriat, West Jaintia Hills	Awareness Programme on BMC and PBR
29 th February, 2016	Laskein, West Jaintia Hills	Awareness Programme on BMC and PBR

Few Pictures from the Awareness Campaigns.

Nongstoin



Laskein, West Jaintia Hills





**Audited Financial Statements
for the year 2015-2016**



Kiron Joshi & Associates

Chartered Accountants

Regn. No. 313048 E

LDB Building : G. S. Road, Shillong - 793 001, Phone : 2223727, Fax : (0364) 2224647, Email : kironjoshiassociates@gmail.com

AUDITORS' REPORT

We have examined the annexed Balance Sheet as at 31.03.2016 and Income & Expenditure Account and Receipts and Payments Account for the year ended on that date of **MEGHALAYA BIODIVERSITY BOARD: SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG.**

These financial statements are the responsibility of the Board. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with the auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance whether the financial statements are free of material misstatement.

An audit includes examining on test basis, evidence supporting the amounts and disclosure in financial statement. An audit also includes assessing the accounting principles used and significant estimates read with the estimate related disclosures made in the notes on accounts by the centre as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We have obtained all the information we have required for those accounts which were placed before us. The said accounts are in agreement with the books and according to the explanations given to us and read with the annexed notes on accounts, said accounts give true and fair view in conformity with the accounting principles generally accepted in India of the state of affairs of the Board as on 31.3.2016 and of its Income & Expenditure for the year ended on that date.

Place:Shillong
Date: 18.03.2019



for KIRON JOSHI & ASSOCIATES
Chartered Accountants.

KIRON JOSHI.

(Membership No.051046)

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

BALANCE SHEET AS AT 31.03.2016

LIABILITIES		ASSETS	
CAPITAL FUND:		FIXED ASSETS:	
Opening Balance:	126439.00	As per Schedule 'A'	1544579.00
(+) Excess of Income over Expenditure	<u>791709.86</u>		
	918148.86		
GRANT FUND:		CURRENT ASSETS:	
Opening balance	23325426.00	Cash in Hand	-
(+) Received during the year from:		Cash at Bank :SB A/c with	
a) National Biodiversity Authority, Chennai	3730000.00	SBI A/c No. 32375460838	<u>22904947.86</u> 22904947.86
b) Government of Meghalaya	<u>4540000.00</u>		
	31595426.00		
(-) Utilised during the year for revenue expenses as per Income & Expenditure Account:			
a) National Biodiversity Authority Chennai	1466000.00		
b) Government of Meghalaya	<u>6598048.00</u>		
	23531378.00		
	<u>₹ 24449526.86</u>		<u>₹ 24449526.86</u>

Place : Shillong
Date : 18.03.2019



In terms of our audit report of even date for KIRON JOSHI & ASSOCIATES Chartered Accountants

Kiron Joshi
KIRON JOSHI
(Membership No. 051046)

Joshy
Secretary
Meghalaya Biodiversity Board
Shillong



MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2016

EXPENDITURE			INCOME		
STATE PLAN EXPENSES:			Grant in Aid from:		
A) Salary Component:			a) Government of Meghalaya	6598048.00	
Salary & Allowances	506300.00		b) National Biodiversity Authority, Chennai	<u>1466000.00</u>	8064048.00
B) Non Salary Component :					
1. Travelling Allowance	55500.00				
2. Start Up Fund released to BMCs	1553000.00				
3. Miscellaneous Expenses	290.00		Bank Interest		971054.86
4. Office Expenses			Sale of books		95892.00
a) Stationery	38520.00				
b) Telephone	13218.00				
c) Posters/Banners for Exhibitions and Seminar	53770.00				
d) POL & Vehicle Maintenance	136672.00				
e) Consumables for Computers	166648.00				
f) Postal Stamps	9030.00				
g) Wages	62500.00				
j) Bank Charges	<u>1201.00</u>	481559.00			
5. Other Charges :					
a) Formation of Expert group, field visits, consultation & Preparation of SBAP	720000.00				
b) Contingent Expenditure	<u>77768.00</u>	797768.00			
6. Minor Works :					
a) Publicity Materials	224585.00				
b) Organising Biodiversity Awareness Programmes	610100.00				
c) Supply of Books, DVDs etc on Biodiversity and local culture to schools	330000.00				
d) Audit Fees	<u>68400.00</u>	1233085.00			
7. Major Works :					
a) Publish /republish books/ documents/compilations on the topic of Biodiversity and culture of Meghalaya	410546.00				
b) Organising Awareness Programmes for BMCs	1185000.00				
c) Sponsoring investigation/research on components of Biodiversity in Meghalaya	<u>375000.00</u>	1970546.00			
NBA EXPENSES :					
Salary of outsourced/contract personnel	934000.00				
Expenses on Translation of Material					
Printing & Dissemination	<u>32000.00</u>				
Balance C/F ₹	<u>7564048.00</u>		Balance C/F ₹	<u>9130994.86</u>	

Contd....P/2



[Signature]
 Secretary
 Meghalaya Biodiversity Board
 Shillong

Balance B/F ₹	7564048.00	Balance B/F ₹	9130994.86
Financial assistance for Celebration of IBD released to :			
a) DFO, Silviculture Division, East Khasi Hills	170000.00		
b) DFO, East Khasi Hills Wild Life Division	30000.00		
c) DFO, West Khasi Hills Social Forestry Division	30000.00		
d) DFO, East Khasi Hills Social Forestry Division	30000.00		
e) DFO, Jaintia Hills Social Forestry Division	30000.00		
f) DFO, Jaintia Hills Wildlife Division	30000.00		
g) DFO, Ri Bhoi Social Forestry Division	30000.00		
h) DFO, East & West Garo Hills Wildlife Division	60000.00		
i) DFO, East Garo Hills Social Forestry Division	30000.00		
j) DFO, Balpakram National Park Division	30000.00		
k) DFO, West Garo Hills Social Forestry Division	30000.00	500000.00	
	<u>30000.00</u>		
Depreciation	275237.00		
Excess of Income over Expenditure	791709.86		
	<u>₹ 9130994.86</u>		<u>₹ 9130994.86</u>

Place : Shillong
Date : 18.03.2019



In terms of our audit report of even date for KIRON JOSHI & ASSOCIATES Chartered Accountants

KIRON JOSHI
(Membership No. 051046)


Secretary
Meghalaya Biodiversity Board
Shillong



MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2016

RECEIPTS		PAYMENTS	
Opening Balances :		STATE PLAN EXPENSES:	
Cash in Hand	-	A) Salary Component:	
Cash at Bank :SB A/c with		Salary & Allowances	506300.00
SBI A/c No. 32375460838	<u>22507258.00</u>		
	22507258.00	B) Non Salary Component :	
Grant in Aid from:		1. Travelling Allowance	55500.00
a) Government of Meghalaya	4540000.00	2. Start Up Fund released to BMCs	1553000.00
b) National Biodiversity		3. Miscellaneous Expenses	290.00
Authority, Chennai	<u>3730000.00</u>	4. Office Expenses	
	8270000.00	a) Stationery	38520.00
Bank Interest	971054.86	b) Telephone	13218.00
Sale of books	95892.00	c) Posters/Banners for Exhibitions	
		and Seminar	53770.00
		d) POL & Vehicle Maintenance	136672.00
		e) Consumables for Computers	166648.00
		f) Office Furniture	271718.00
		g) Purchase of Laptop	94500.00
		h) Postal Stamps	9030.00
		i) Purchase of Biodiversity related	
		Books	26451.00
		j) Wages	62500.00
		k) Bank Charges	<u>1201.00</u>
			874228.00
		5. Materials & Supplies	
		Purchase of:	
		a) Digital Camera	246503.00
		b) Gramin GPS	106989.00
		c) Projector	<u>129048.00</u>
			482540.00
		6. Other Charges :	
		a) Formation of Expert group,	
		field visits, consultation &	
		Preparation of SBAP	720000.00
		b) Contingent Expenditure	<u>77768.00</u>
			797768.00
		7. Minor Works :	
		a) Publicity Materials	224585.00
		b) Organising Biodiversity	
		Awareness Programmes	610100.00
		c) Supply of Books, DVDs etc	
		on Biodiversity and local culture	
		to schools	330000.00
		d) Audit Fees	<u>68400.00</u>
			1233085.00
		8. Major Works :	
		a) Publish /republish books/	
		documents/compilations on	
		the topic of Biodiversity and	
		culture of Meghalaya	410546.00
		b) Organising Awareness	
		Programmes for BMCs	1185000.00
Balance C/F ₹	<u>31844204.86</u>	Balance C/F ₹	<u>1595546.00</u> <u>5502711.00</u>

Contd....P/2



(Signature)
 Secretary
 Meghalaya Biodiversity Board
 Shillong

:2:

Balance B/F ₹	<u>31844204.86</u>	Balance B/F ₹	<u>1595546.00</u>	<u>5502711.00</u>
		c) Sponsoring investigation/research on components of Biodiversity in Meghalaya	<u>375000.00</u>	1970546.00
		NBA EXPENSES :		
		Salary of outsourced/contract personnel		934000.00
		Expenses on Translation of Material Printing & Dissemination		32000.00
		Financial assistance for Celebration of IBD released to :		
		a) DFO, Silviculture Division, East Khasi Hills	170000.00	
		b) DFO, East Khasi Hills Wildlife Division	30000.00	
		c) DFO, West Khasi Hills Social Forestry Division	30000.00	
		d) DFO, East Khasi Hills Social Forestry Division	30000.00	
		e) DFO, Jaintia Hills Social Forestry Division	30000.00	
		f) DFO, Jaintia Hills Wildlife Division	30000.00	
		g) DFO, Ri Bhoi Social Forestry Division	30000.00	
		h) DFO, East & West Garo Hills Wildlife Division	60000.00	
		i) DFO, East Garo Hills Social Forestry Division	30000.00	
		j) DFO, Balpakram National Park Division	30000.00	
		k) DFO, West Garo Hills Social Forestry Division	<u>30000.00</u>	500000.00
		Closing Balances :		
		Cash in Hand		
		Cash at Bank :SB A/c with SBI A/c No. 32375460838	<u>22904947.86</u>	<u>22904947.86</u>
	<u>₹ 31844204.86</u>			<u>₹ 31844204.86</u>

Place : Shillong
Date : 18.03.2019



In terms of our audit report of even date for KIRON JOSHI & ASSOCIATES Chartered Accountants

KIRON JOSHI
(Membership No. 051046)

Secretary
Meghalaya Biodiversity Board
Shillong



MEGHALAYA BIODIVERSITY BOARD
 SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2016

SI No	PARTICULARS	OPENING BALANCE	GROSS BLOCK		DELETION	AS ON 31.03.2016	RATE	DEPRECIATION		TOTAL	NET BLOCK AS ON 31.03.2016
			BEFORE 30.09.2015	AFTER 30.09.2015				OPENING BALANCE	FOR THE YEAR		
1	Furniture & Fixtures	160814.00	-	271718.00	-	432532.00	10%	36887.00	25979.00	62866.00	369666.00
2	Computer & Peripherals	229310.00	94500.00	-	-	323810.00	40%	203627.00	48073.00	251700.00	72110.00
3	Office Equipments	108865.00	482540.00	-	-	591395.00	15%	36106.00	83293.00	119399.00	471996.00
4	Books	104151.00	26451.00	-	-	130602.00	20%	18863.00	22348.00	41211.00	89391.00
5	Vehicle	688605.00	-	-	-	688605.00	15%	51645.00	95544.00	147189.00	541416.00
	TOTAL	1291735.00	603491.00	271718.00	-	2166944.00		347128.00	275237.00	622365.00	1544579.00



Secretary
 Meghalaya Biodiversity Board
 Shillong

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS FOR THE YEAR
ENDED 31.03.2016

1. The financial statements have been prepared on the basis of historical cost convention and on the cash method of accounting.
2. Accounting policies not specifically referred to otherwise are consistent and in consonance with generally accepted accounting principles.
3. Grant received to the extent utilised for revenue expenditure during the year have been recognised as income in the Income and Expenditure Account. The unutilised balance is shown as liability under Grant Fund in the Balance Sheet.
4. a) Fixed Assets have been stated at cost with addition during the year, depreciation charged till 31.03.2015 and depreciation for the year as per details given in Schedule 'A'.

b) Depreciation on Fixed Assets have been charged as per WDV method and as per the rates and manner prescribed under the Income Tax Rules.
- 5 Retirement benefits to employees have not been provided for. It will be charged to revenue as and when paid.




Secretary
Meghalaya Biodiversity Board
Shillong



MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

BANK RECONCILIATION STATEMENT FOR THE YEAR ENDED 31.03.2016

Bank balance as per Pass Book ₹ 23535461.86

(-) Cheque issued but not presented for payment till 31.03.2016 :

<u>Date</u>	<u>Cheque No.</u>	<u>Amount</u>	
31.03.2016	390710	32000.00	
31.03.2016	390718	82000.00	
31.03.2016	390697	25000.00	
31.03.2016	390698	1414.00	
31.03.2016	390699	25000.00	
31.03.2016	390700	20000.00	
31.03.2016	390701	20000.00	
31.03.2016	390702	20000.00	
31.03.2016	390703	20000.00	
31.03.2016	390704	20000.00	
31.03.2016	390705	20000.00	
31.03.2016	390706	20000.00	
31.03.2016	390707	20000.00	
31.03.2016	390708	20000.00	
31.03.2016	390709	20000.00	
31.03.2016	390712	20000.00	
31.03.2016	390713	20000.00	
31.03.2016	390715	10000.00	
31.03.2016	390716	5000.00	
31.03.2016	390719	50100.00	
01.03.2016	390683	20000.00	
01.03.2016	390684	20000.00	
01.03.2016	390685	20000.00	
01.03.2016	390686	20000.00	
01.03.2016	390687	20000.00	
01.03.2016	390692	20000.00	
01.03.2016	390689	20000.00	
01.03.2016	390691	20000.00	
			630514.00

Bank balance as per Cash book

₹ 22904947.86




 Secretary
 Meghalaya Biodiversity Board
 Shillong



Kiron Joshi & Associates

Chartered Accountants

Regn. No. 313048 E

LDB Building : G. S. Road, Shillong - 793 001, Phone : 2223727, Fax : (0364) 2224647, Email : kironjoshiassociates@gmail.com

AUDITORS' REPORT

We have examined the annexed Balance Sheet as at 31.03.2016 and Income & Expenditure Account and Receipts and Payments Account for the year ended on that date of **MEGHALAYA BIODIVERSITY BOARD: SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG.**

These financial statements are the responsibility of the Board. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with the auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance whether the financial statements are free of material misstatement.

An audit includes examining on test basis, evidence supporting the amounts and disclosure in financial statement. An audit also includes assessing the accounting principles used and significant estimates read with the estimate related disclosures made in the notes on accounts by the centre as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We have obtained all the information we have required for those accounts which were placed before us. The said accounts are in agreement with the books and according to the explanations given to us and read with the annexed notes on accounts, said accounts give true and fair view in conformity with the accounting principles generally accepted in India of the state of affairs of the Board as on 31.3.2016 and of its Income & Expenditure for the year ended on that date.

Place: Shillong
Date: 18.03.2019



for KIRON JOSHI & ASSOCIATES
Chartered Accountants

KIRON JOSHI.
(Membership No.051046)

**MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG**

BALANCE SHEET AS AT 31.03.2016

<u>LIABILITIES</u>		<u>ASSETS</u>	
<u>CAPITAL FUND:</u>		<u>FIXED ASSETS:</u>	
Opening Balance:	126439.00	As per Schedule 'A'	1544579.00
(+) Excess of Income over Expenditure	<u>791709.86</u>		
	918148.86		
<u>GRANT FUND:</u>			
Opening balance	23325426.00		
(+) Received during the year from:			
a) National Biodiversity Authority, Chennai	3730000.00		
b) Government of Meghalaya	<u>4540000.00</u>		
	31595426.00		
(-) Utilised during the year for revenue expenses as per Income & Expenditure Account:		<u>CURRENT ASSETS:</u>	
a) National Biodiversity Authority, Chennai	1466000.00	Cash in Hand	
b) Government of Meghalaya	<u>6598048.00</u>	Cash at Bank : SB A/c with SBI A/c No. 32375460838	<u>22904947.86</u> 22904947.86
	23531378.00		
	<u>₹ 24449526.86</u>		<u>₹ 24449526.86</u>

Place : Shillong
Date : 18.03.2019



In terms of our audit report of even date
for KIRON JOSHI & ASSOCIATES
Chartered Accountants

Kiron Joshi
KIRON JOSHI
(Membership No. 051046)

[Signature]
Secretary
Meghalaya Biodiversity Board
Shillong

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2016

EXPENDITURE		INCOME	
STATE PLAN EXPENSES:		Grant in Aid from:	
A) Salary Component:		a) Government of Meghalaya	6598048.00
Salary & Allowances	506300.00	b) National Biodiversity Authority, Chennai	1466000.00
			8064048.00
B) Non Salary Component :			
1 Travelling Allowance	55500.00		
2. Start Up Fund released to BMCs	1553000.00		
3. Miscellaneous Expenses	290.00	Bank Interest	971054.86
4. Office Expenses		Sale of books	95892.00
a) Stationery	38520.00		
b) Telephone	13218.00		
c) Posters/Banners for Exhibitions and Seminar	53770.00		
d) POL & Vehicle Maintenance	136672.00		
e) Consumables for Computers	166648.00		
f) Postal Stamps	9030.00		
g) Wages	62500.00		
j) Bank Charges	1201.00	481559.00	
5. Other Charges :			
a) Formation of Expert group, field visits, consultation & Preparation of SBAP	720000.00		
b) Contingent Expenditure	77768.00	797768.00	
6 Minor Works :			
a) Publicity Materials	224585.00		
b) Organising Biodiversity Awareness Programmes	610100.00		
c) Supply of Books, DVDs etc on Biodiversity and local culture to schools	330000.00		
d) Audit Fees	68400.00	1233085.00	
7. Major Works :			
a) Publish /republish books/ documents/compilations on the topic of Biodiversity and culture of Meghalaya	410546.00		
b) Organising Awareness Programmes for BMCs	1185000.00		
c) Sponsoring investigation/research on components of Biodiversity in Meghalaya	375000.00	1970546.00	
NBA EXPENSES :			
Salary of outsourced/contract personnel	934000.00		
Expenses on Translation of Material Printing & Dissemination	32000.00		
Balance C/F ₹	7564048.00	Balance C/F ₹	9130994.86

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Secretary
Meghalaya Biodiversity Board
Shillong



Balance B/F ₹	7564048.00	Balance B/F ₹	9130994.86
Financial assistance for Celebration of IBD released to :			
a) DFO, Silviculture Division, East Khasi Hills	170000.00		
b) DFO, East Khasi Hills Wild Life Division	30000.00		
c) DFO, West Khasi Hills Social Forestry Division	30000.00		
d) DFO, East Khasi Hills Social Forestry Division	30000.00		
e) DFO, Jaintia Hills Social Forestry Division	30000.00		
f) DFO, Jaintia Hills Wildlife Division	30000.00		
g) DFO, Ri Bhoi Social Forestry Division	30000.00		
h) DFO, East & West Garo Hills Wildlife Division	60000.00		
i) DFO, East Garo Hills Social Forestry Division	30000.00		
j) DFO, Balpakram National Park Division	30000.00		
k) DFO, West Garo Hills Social Forestry Division	30000.00		
	<u>500000.00</u>		
Depreciation	275237.00		
Excess of Income over Expenditure	791709.86		
	<u>₹ 9130994.86</u>		<u>₹ 9130994.86</u>

Place : Shillong
Date : 18.03.2019



In terms of our audit report of even date
for KIRON JOSHI & ASSOCIATES
Chartered Accountants


KIRON JOSHI
(Membership No. 051046)


Secretary
Meghalaya Biodiversity Board
Shillong

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2016

RECEIPTS		PAYMENTS	
Opening Balances :		STATE PLAN EXPENSES:	
Cash in Hand	-	A) Salary Component:	
Cash at Bank :SB A/c with		Salary & Allowances	506300.00
SBI A/c No. 32375460838	<u>22507258.00</u>	22507258.00	
Grant in Aid from:		B) Non Salary Component :	
a) Government of Meghalaya	4540000.00	1. Travelling Allowance	55500.00
b) National Biodiversity		2. Start Up Fund released to BMCs	1553000.00
Authority, Chennai	<u>3730000.00</u>	3. Miscellaneous Expenses	290.00
	8270000.00	4. Office Expenses	
Bank Interest	971054.86	a) Stationery	38520.00
Sale of books	95892.00	b) Telephone	13218.00
		c) Posters/Banners for Exhibitions	
		and Seminar	53770.00
		d) POL & Vehicle Maintenance	136672.00
		e) Consumables for Computers	166648.00
		f) Office Furniture	271718.00
		g) Purchase of Laptop	94500.00
		h) Postal Stamps	9030.00
		i) Purchase of Biodiversity related	
		Books	26451.00
		j) Wages	62500.00
		k) Bank Charges	<u>1201.00</u>
			874228.00
		5. Materials & Supplies	
		Purchase of:	
		a) Digital Camera	246503.00
		b) Gramin GPS	106989.00
		c) Projector	<u>129048.00</u>
			482540.00
		6. Other Charges :	
		a) Formation of Expert group,	
		field visits, consultation &	
		Preparation of SBAP	720000.00
		b) Contingent Expenditure	<u>77768.00</u>
			797768.00
		7. Minor Works :	
		a) Publicity Materials	224585.00
		b) Organising Biodiversity	
		Awareness Programmes	610100.00
		c) Supply of Books, DVDs etc	
		on Biodiversity and local culture	
		to schools	330000.00
		d) Audit Fees	<u>68400.00</u>
			1233085.00
		8. Major Works :	
		a) Publish /republish books/	
		documents/compilations on	
		the topic of Biodiversity and	
		culture of Meghalaya	410546.00
		b) Organising Awareness	
		Programmes for BMCs	1185000.00
Balance C/F ₹	<u>31844204.86</u>	Balance C/F ₹	<u>1595546.00</u> <u>5502711.00</u>

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(Signature)
 Secretary
 Meghalaya Biodiversity Board
 Shillong

Balance B/F ₹	<u>31844204.86</u>	Balance B/F ₹	<u>1595546.00</u>	<u>5502711.00</u>
		c) Sponsoring investigation/research on components of Biodiversity in Meghalaya		
		<u>375000.00</u>	<u>1970546.00</u>	
		<u>NBA EXPENSES :</u>		
			934000.00	
			32000.00	
		Financial assistance for Celebration of IBD released to :		
		a) DFO, Silviculture Division, East Khasi Hills	170000.00	
		b) DFO, East Khasi Hills Wild Life Division	30000.00	
		c) DFO, West Khasi Hills Social Forestry Division	30000.00	
		d) DFO, East Khasi Hills Social Forestry Division	30000.00	
		e) DFO, Jaintia Hills Social Forestry Division	30000.00	
		f) DFO, Jaintia Hills Wildlife Division	30000.00	
		g) DFO, Ri Bhoi Social Forestry Division	30000.00	
		h) DFO, East & West Garo Hills Wildlife Division	60000.00	
		i) DFO, East Garo Hills Social Forestry Division	30000.00	
		j) DFO, Balpakram National Park Division	30000.00	
		k) DFO, West Garo Hills Social Forestry Division	<u>30000.00</u>	<u>500000.00</u>
		Closing Balances :		
		Cash in Hand		
		Cash at Bank :SB A/c with		
		SBI A/c No. 32375460838		
		<u>22904947.86</u>	<u>22904947.86</u>	
	<u>₹ 31844204.86</u>		<u>₹ 31844204.86</u>	

Place : Shillong
Date : 18.03.2019



In terms of our audit report of even date
for KIRON JOSHI & ASSOCIATES
Chartered Accountants

KIRON JOSHI
(Membership No. 051046)


Secretary
Meghalaya Biodiversity Board
Shillong

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2016

SCHEDULE A : FIXED ASSETS

Sl No	PARTICULARS	OPENING BALANCE	GROSS BLOCK		DELETION	AS ON 31.03.2016	RATE	DEPRECIATION		TOTAL	NET BLOCK AS ON 31.03.2016
			BEFORE 30.09.2015	ADDITION AFTER 30.09.2015				FOR THE YEAR	OPENING BALANCE		
1	Furniture & Fixtures	160814.00	-	271718.00	-	432532.00	10%	25979.00	36887.00	62866.00	369666.00
2	Computer & Peripherals	229310.00	94500.00	-	-	323810.00	40%	48073.00	203627.00	251700.00	72110.00
3	Office Equipments	108855.00	482540.00	-	-	591395.00	15%	83293.00	36106.00	119399.00	471996.00
4	Books	104151.00	26451.00	-	-	130602.00	20%	22348.00	18863.00	41211.00	89391.00
5	Vehicle	688605.00	-	-	-	688605.00	15%	95544.00	51645.00	147189.00	541416.00
	TOTAL	1291735.00	603491.00	271718.00	-	2166944.00		275237.00	347128.00	622365.00	1544579.00



[Handwritten Signature]
Secretary
Meghalaya Biodiversity Board
Shillong

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS FOR THE YEAR
ENDED 31.03.2016

1. The financial statements have been prepared on the basis of historical cost convention and on the cash method of accounting.
2. Accounting policies not specifically referred to otherwise are consistent and in consonance with generally accepted accounting principles.
3. Grant received to the extent utilised for revenue expenditure during the year have been recognised as income in the Income and Expenditure Account. The unutilised balance is shown as liability under Grant Fund in the Balance Sheet.
4. a) Fixed Assets have been stated at cost with addition during the year, depreciation charged till 31.03.2015 and depreciation for the year as per details given in Schedule 'A'.

b) Depreciation on Fixed Assets have been charged as per WDV method and as per the rates and manner prescribed under the Income Tax Rules.
- 5 Retirement benefits to employees have not been provided for. It will be charged to revenue as and when paid.




Secretary
Meghalaya Biodiversity Board
Shillong

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

BANK RECONCILIATION STATEMENT FOR THE YEAR ENDED 31.03.2016

Bank balance as per Pass Book ₹ 23535461.86

(-) Cheque issued but not presented for payment till 31.03.2016 :

<u>Date</u>	<u>Chque No.</u>	<u>Amount</u>	
31.03.2016	390710	32000.00	
31.03.2016	390718	82000.00	
31.03.2016	390697	25000.00	
31.03.2016	390698	1414.00	
31.03.2016	390699	25000.00	
31.03.2016	390700	20000.00	
31.03.2016	390701	20000.00	
31.03.2016	390702	20000.00	
31.03.2016	390703	20000.00	
31.03.2016	390704	20000.00	
31.03.2016	390705	20000.00	
31.03.2016	390706	20000.00	
31.03.2016	390707	20000.00	
31.03.2016	390708	20000.00	
31.03.2016	390709	20000.00	
31.03.2016	390712	20000.00	
31.03.2016	390713	20000.00	
31.03.2016	390715	10000.00	
31.03.2016	390716	5000.00	
31.03.2016	390719	50100.00	
01.03.2016	390683	20000.00	
01.03.2016	390684	20000.00	
01.03.2016	390685	20000.00	
01.03.2016	390686	20000.00	
01.03.2016	390687	20000.00	
01.03.2016	390692	20000.00	
01.03.2016	390689	20000.00	
01.03.2016	390691	20000.00	630514.00

Bank balance as per Cash book

₹ 22904947.86



Secretary
Meghalaya Biodiversity Board
Shillong



PART-II



Board Activities for the year 2016-2017

The main activities of the Board up to March, 2016 are encapsulated as follows:

1. Meetings of the Board for the year 2016-2017:

Three meetings were held during the year 2016-17 and are discussed as follows:

- a. The 9th meeting of the Meghalaya Biodiversity Board (MBB) was held on the 28th April, 2016 at the Conference Hall of the Sylvan House, Lower Lachumiere, Shillong. Shri. M. S. Rao, IAS, Principal Secretary to the Govt. of Meghalaya (Forests & Environment Department) cum Chairman of the Board chaired the meeting.

The following agenda points were discussed at the meeting:

- a. A unanimous confirmation of the minutes of the last meeting held on 27th November, 2015.
 - b. A follow up on the decisions rendered at the previous Board meeting were discussed.
 - c. Agendas regarding the recent activities undertaken by the Board were discussed.
 - d. Proposals related to the 'State Plan scheme for 2015-2016' were put forward before the Board and the same were approved.
 - e. Discussion regarding the IDB Celebration, 2016.
 - f. Discussion on the shortage of Ex-officio secretaries for BMCs.
 - g. Discussion regarding the 'Activities Plan to be undertaken by the Board' was made.
 - h. Information regarding the 'Species on the verge of extinction'.
- b. The 10th meeting of the Meghalaya Biodiversity Board (MBB) was held on the 19th September, 2016 at the Conference Hall of the Sylvan House, Lower Lachumiere, Shillong. Dr. Shreerajan, IAS, Additional Chief Secretary to the Govt. of Meghalaya (Forests & Environment) cum Chairman of the Board chaired the meeting.

The following agenda points were discussed:

- a. The minutes of the meeting of the Board held on 28th April 2016 were confirmed.
- b. A follow up on the decisions taken by the Board at the last meeting were discussed.
- c. Regarding the budget allotted to the State Plan proposal for 2016-2017, it was placed before the Board for approval and the same was approved.
- d. 'Documentation of the root bridges of Meghalaya' was proposed before the Board as a priority work.
- e. Discussions relating to preparation of PBRs were put forward before the Board.
- f. The Board reviewed the Project works done by Project Assistants.
- g. Proposal for declaration of the first BHS in Meghalaya
- h. Proposal to develop a Butterfly Park was put forward before the Board for approval.
- i. Proposal to use Digital Platform to create awareness on Biodiversity was put forward before the Board for approval.
- j. Discussing other related issues, the Chairman gave few advices relating to the Forest & Environment Department.

- c. The 11th meeting of the Meghalaya Biodiversity Board (MBB) was held on the 29th March, 2017 at the Conference Hall of the Sylvan House, Lower Lachumiere, Shillong. Dr Shreeranjana, IAS, Additional Chief Secretary to the Govt. of Meghalaya (Forests & Environment) cum Chairman of the Board chaired the meeting.

The following agenda points were discussed:

1. The minutes of the last meeting held on 19th September 2016 were confirmed.
2. The follow up on the actions taken by the Secretary at the previous meeting were unanimously approved by the Board.
3. Report of the Expert Committee on BMC was placed before the Board for approval.
4. In regard to the expansion of MBB Expert Committee, the latest order was placed before the Board for approval/ratification.
5. Allotment of funds under CAMPA
6. Discussion regarding the IBD Celebration, 2017.
7. Other issues related to MBB were placed before the Board for discussion.



2. International Biological Diversity Day Celebration:

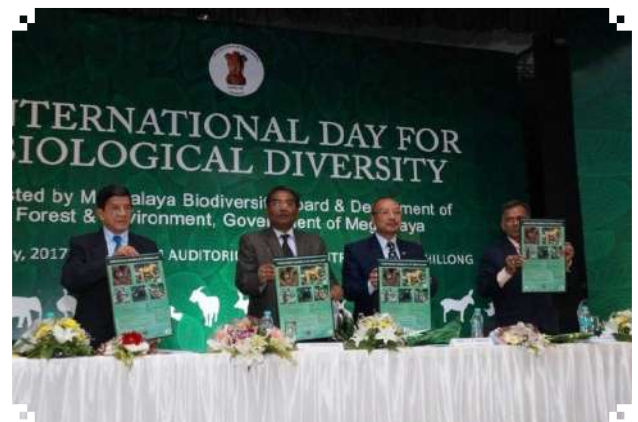
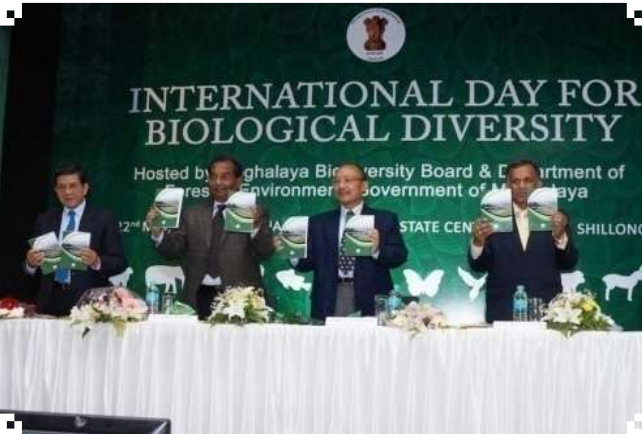
The following are the details of the IBD celebration for the year 2017:

International Day for Biological Diversity, 2017

Theme: Mainstreaming Biodiversity; Sustaining People and their Livelihoods

Photographs of IBD Celebration in the other towns of Meghalaya:

Shillong (East Khasi Hills District):



Moolamlyiang (East Jaintia Hills District):



Mawkyrwat (South West Khasi Hills District):



(Ri-Bhoi District):



Tura (South West Garo Hills District):



Moolamlyiang (East Jaintia Hills District):



Mawkyrwat (South West Khasi Hills District):



Photography Competition

Theme: Insects



Winner: Khraw Shylla



Consolation Prize: Billbirthstar Pathaw





Consolation Prize: Gerald Samuel Pinocchio Duia



Consolation Prize: Shngainlang Khongsti



Consolation Prize: Gregory Allya Warjri



Consolation Prize: Shettimai Syiem



3. Number of BMCs formed in the State in the year 2016-17:

Below is the list of BMCs formed in the year 2016-17:

SL No.	NAME	BLOCK	DISTRICT	CHAIRMAN	DATE OF-CONSTITUTION	REGISTRATION No.
1.	MUKHAP	LASKEIN	WEST JAIN-TIA HILLS	BITORIAN LYN-GDOH	02.04.2016	BMC/WJH/MUKHAP/123
2.	TYMPIAH KASU	SAIPUNG	EAST JAIN-TIA HILLS	SHRI DEI KANAI	04.04.2016	BMC/EJH/TYMPIAH KASU/106
3.	MIANGSHANG	NONGSTOIN	WEST KHA-SI HILLS	SHR CONSTANTIN RYNTHONG	08.04.2016	BMC/WKH/MIANGSHANG/115
4.	SUCHEN RIM	KHLIEHRIAT	EAST JAIN-TIA HILLS	SHRI BNIAH MAS-SAR	09.04.2016	BMC/EJH/SUCHEN RIM/128
5.	PYNDEN UMJARAIN	MAWKYRWAT	SOUTH WEST KHA-SI HILLS	SHRI ONDERSIS MARTHONG	11.04.2016	BMC/SWKH/PYNDEN UMJARAIN/107
6.	DIWIAN RANG-BLANG	MAWKYRWAT	SOUTH WEST KHA-SI HILLS	SHRI EDILBERT IAWPHNIAW	11.04.2016	BMC/SWKH/DIWIAN RANGBLANG/108
7.	RYMBAI	KHLIEHRIAT	EAST JAIN-TIA HILLS	SHRI BHALANG LAMMURONG	20.04.2016	BMC/EJH/RYMBAI/129
8.	DKHIAH EAST	KHLIEHRIAT	EAST JAIN-TIA HILLS	SHRI EMLANG NONGTUDU	21.04.2016	BMC/EJH/DKHIAH EAST/130
9.	NONGTHYMME	KHLIEHRIAT	EAST JAIN-TIA HILLS	SHRI PRESHIOUS SYMPLI	22.04.2016	BMC/EJH/NONGTHYMME/131
10.	MAWTNENG	UMSNING	RI-BHOI	SHRI AUGUSTINE STEN	23.04.2016	BMC/RBD/MAWTNENG/143
11.	LUMSHKEN	KHLIEHRIAT	EAST JAIN-TIA HILLS	SHRI KHAM BAREH	04.05.2016	BMC/EJH/LUMSHKEN/132
12.	RONGSKONG	UMLING	RI-BHOI	HERJUNE MAKRI	07.05.2016	BMC/RB/RONGSKONG/114
13.	UMLAPER	UMSNING	RI BHOI	SHRI RONALD ROSE TERANG	18.05.2016	BMC/RB/UMLAPER/120
14.	MAWTYRSHIAH -A	LASKEIN	WEST JAIN-TIA HILLS	SHRI ALAMMAME TANG	27.06.2016	BMC/WJH/MAWTYRSHIAH-A/125
15.	SONIDAN	UMSNING	RI BHOI	SHRI WONDERFUL KHYMDEIT	22.07.2016	BMC/RB/SONIDAN/119
16.	NONG KYA	UMSNING	RI BHOI	SHRI LUMLAMG BARIM	23.07.2016	BMC/RB/NONG KYA/117
17.	MAWHATI	UMSNING	RI BHOI	SHRI SHANLANG DIENGDOH	24.07.2016	BMC/RB/MAWHATI/118
18.	MAWSER	UMSNING	RI BHOI	SHRI SHN-GAINLANG KHONGJI	25.07.2016	BMC/RBD/MAWSER/190
19.	UMTUNG	UMSNING	RI BHOI	SHRI REVISTER KHARUMNUID	25.07.2016	BMC/RBD/UMTUNG/195
20.	KHWENG	UMSNING	RI BHOI	SHRI JEWING NONGPOH	26.07.2016	BMC/RBD/KHWENG/196
21.	UMSARANG	UMSNING	RI BHOI	SHRI KHILAN NONGKYNRIH	26.07.2016	BMC/RBD/UMSARANG/197
22.	MADAN NON-GLAKHIAT	UMSNING	RI-BHOI	SHRI CLEVERSON RYMBAI	28.07.2016	BMC/RBD/MADAN NONGLAKHIAT/184



23.	RAITONG	UMSNING	RI BHOI	SHRI DENEL WAH- PHLANG	30.07.2016	BMC/RB/RAI- TONG/116
24.	LUMSHYIAP	UMSNING	RIBHOI	SHRI HOLNING TERON	01.08.2016	BMC/RBD/LUMSHY- IAP/198
25.	LANGSAW	UMSNING	RI BHOI	SHRI T. SPALTON LALOO	22.08.2016	BMC/RBD/LANG- SAW/191
26.	PDENGNONGRIM	UMSNING	RI-BHOI	SHRI SAKHARIUS SUJAI	04.09.2016	BMC/RBD/PDENGN- NONGRIM/185
27.	NONGTHYMMAI	UMSNING	RI BHOI	SHRI HARTAL JANA	15.09.2016	BMC/RB/ NONGTHYMMAI/133
28.	MAWBSEIN	UMSNING	RI-BHOI	SHR PDIANGHOK NONGRUM	16.09.2016	BMC/RBD/MAWB- SEIN/186
29.	MYNTKUNG	LASKEIN	WEST JAIN- TIA HILLS	SHRI. RIHOKMI LAW	24.09.2016	BMC/WJH/MYNT- KUNG/247
30.	CHUTWAKHU SARHEN	LASKEIN	WEST JAIN- TIA HILLS	SHRI. BHALANG PAKEM	31.09.2016	BMC/WJH/CHUT- WAKHU SARHEN/246
31.	UMNONGKREM	UMSNING	RI BHOI	SHRI O.S MARN- GAR	14.10.2016	BMC/RBD/UM- NONGKREM/192
32.	KYNROH MOT	MAWPHLANG	EAST KHA- SI HILLS	SHRI MADROT NONGRUM	23.10.2016	BMC/EKH/KYNROH MOT/134
33.	KYNROH NONG- BRI	MAWPHLANG	EAST KHA- SI HILLS	SHRI BREKIN KYRSIAN	24.10.2016	BMC/EKH/KYNROH NONGBRI/135
34.	KYNROH SYN- RANG	MAWPHLANG	EAST KHA- SI HILLS	SHRI PHLIUS NON- GRUM	25.10.2016	BMC/EKH/KYNROH SYNRANG/136
35.	KYNROH NON- GLUM	MAWPHLANG	EAST KHA- SI HILLS	SHRI HORBIN PATHAW	25.10.2016	BMC/EKH/KYNROH NONGLUM/137
36.	KYNROH NONG- LYER	MAWPHLANG	EAST KHA- SI HILLS	SHRI KWIT KYR- SIAN	25.10.2016	BMC/EKH/KYNROH NONGLYER/138
37.	KYNROH NONG- LYER –A	MAWPHLANG	EAST KHA- SI HILLS	SHRI CHARLES KURBAH	25.10.2016	BMC/EKH/KYNROH NONGLYER-A/139
38.	SOHKSAR –A	MAWPHLANG	EAST KHA- SI HILLS	SHRI RIKOMEN NONGSIEJ	25.10.2016	BMC/EKH/SOHKSAR –A/142
39.	RIMSHYLLA	MAWPHLANG	EAST KHA- SI HILLS	SHRI THOMBOR THAPBAH	26.10.2016	BMC/EKH/RIMSHYL- LA/140
40.	DEWSAW –A	MAWPHLANG	EAST KHA- SI HILLS	SHRI JOTSON MAWLONG	26.10.2016	BMC/EKH/DEW- SAW-A/141
41.	SOHPHOH	MAWPHLANG	EAST KHA- SI HILLS	SHRI ROLAN WANNIANG	01.11.2016	BMC/EKH/ SOHPHOH/183
42.	SDER	12-SHNONG LAITKROH	EAST KHA- SI HILLS	SHRI. REL KHONGWIR	11.11.2016	BMC/EKH/SDER/215
43.	LAITMAWROH & RAMKHENG	12-SHNONG LAITKROH	EAST KHA- SI HILLS	SHRI. TELLING BUHPHANG	30.11.2016	BMC/EKH/LAITMAW- ROH & RAMKHEN/216
44.	THAINTHYNROH	MAWPHLANG	EAST KHA- SI HILLS	SHRI STINGBOR KHARRYNGKI	01.12.2016	BMC/EKH/ THAINTHYNROH/168
45.	LAITMAWPEN	MAWPHLANG	EAST KHA- SI HILLS	SHRI THRANSING KHARSHIING	01.12.2016	BMC/EKH/LAITMAW- PEN/178
46.	MAWKALUM	MAWPHLANG	EAST KHA- SI HILLS	SHRI KANSWELL KURKALANG	01.12.2016	BMC/EKH/ MAWKALUM/182
47.	DEWLIIEH	LAITKROH	EAST KHA- SI HILLS	SHRI SHAIIPHAR DOHLING	01.12.2016	BMC/EKH/ DEWLIIEH/189

48.	LAITMAWHING	MAWPHLANG	EAST KHASI HILLS	SHRI ARBAN RANI	02.12.2016	BMC/EKH/LAITMAWHING/177
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50.	JABAR NONGNENG	MAWPHLANG	EAST KHASI HILLS	SHRI WANSUK NONGSIEJ	03.12.2016	BMC/EKH/JABAR NONGNENG/169
51.	KHARNGOI	MAWPHLANG	EAST KHASI HILLS	SHRI WONIS DIENGDOH	03.12.2016	BMC/EKH/KHARNGOI/171
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65.	SIMSENG NAKAL	RONGJENG	EAST GARO HILLS	SHRI. HEDITSON MOMIN	17.01.2017	BMC/EGH/SIMSENG NAKAL/242
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70.	LUM MYNTRI	UMSNING	RI BHOI	SHRI ELIS MYNSING	08.02.2017	BMC/RBD/LUM MYNTRI/193
71.	PYNTHORSALE	KHLIEHRIAT	EAST JAIN-TIA HILLS	SHRI SMAIN-BHALANG PHAWA	10.02.2017	BMC/EJH/PYNTHORSALE/205
72.	KYNJOIN UMRAN	UMSNING	RI BHOI	SHRI RESWEL SUTING	11.02.2017	BMC/RBD/KYNJOINUMRAN/194
73.	DEINSHALALU	KHLIEHRIAT	EAST JAIN-TIA HILLS	SHRI JAMMEY RYMBAI	12.02.2017	BMC/EJH/DEINSHALALU/206
74.	UMKRA	UMSNING	RI BHOI	SHRI HEPHSHON SUJAI	17.02.2017	BMC/RBD/UMKRA/199
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76.	UMLATAR	UMSNING	RI-BHOI	SHRI.DANCING MAWLONG	22.02.2017	BMC/RB/UM-LATAR/213
77.	NONGMAWLONG	UMSNING	RI-BHOI	SHRI. EKOLES WAHLANG	22.02.2017	BMC/RB/NONGMAWLONG/248
78.	BANBUDAI	UMSNING	RI BHOI	SHRI B.PYN-BHALANG SYIEM	28.02.2017	BMC/RBD/BANBUDAI/201
79.	UMSAW	SOHIONG	EAST KHASI HILLS	SHRI. KRALLING KHARTHANGMAW	05.03.2017	BMC/EKH/UMSAW/228
80.	IMTRA APAL	RONGJENG	EAST GARO HILLS	SHRI SABIUSH MARAK	07.03.2017	BMC/EGH/IMTRA APAL/203
81.	CHERAN ALDA	RONGJENG	EAST GARO HILLS	SHRI.SENGJIM SANGMA	07.03.2017	BMC/EGH/CHERAN ALDA/243
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84.	DIENKYRTHONG	12 SHNONG LAITKHROH	EAST KHASI HILLS	SHRI BORDAR KHARKONGOR	11.03.2017	BMC/EKH/ DIENKYRTHONG/202
85.	CHUTMANG GONGGOROT	RONGARA	SOUTH GARO HILLS	SHRI. LEBITH K. SANGMA	11.03.2017	BMC/SGH/CHUTMANG GONGGOROT/210
86.	DOMSNOIN	SOHIONG	EAST KHASI HILLS	SHRI. KITBOR KHARJANA	16.03.2017	BMC/EKH/ DOMSNOIN/229
87.	LUMKYNTUNG	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. LIBARSON NONGBRI	18.03.2017	BMC/EKH/LUMKYNTUNG/220
88.	UMSAW DOMBHOI	SOHIONG	EAST KHASI HILLS	SHRI. PHAINBOR NONGRANG	18.03.2017	BMC/EKH/UMSAW DOMBHOI/230
89.	LEN MAWTAP	SOHIONG	EAST KHASI HILLS	SHRI. MODICALD DIENGDH	18.03.2017	BMC/EKH/LEN MAWTAP/231
90.	MARPNA	MAWPHLANG	EAST KHASI HILLS	SHRI. F. L. MAWLONG	22.03.2017	BMC/EKH/MARPNA/232
91.	MANAI	MAWPHLANG	EAST KHASI HILLS	SHRI. BISTAR KHARPHULI	27.03.2017	BMC/EKH/MANAI/233
92.	MADANRTIANG	UMSNING	RI-BHOI	SHRI. MORJINESS DKHAR	27.03.2017	BMC/RB/MADANRTIANG/249

4. Publications by the Board (2016-17)

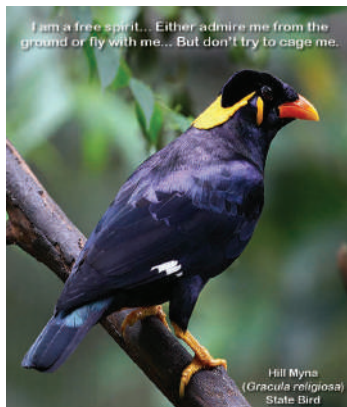
In the year 2016-17, the Board has published the following books, brochures and posters to generate awareness regarding the biodiversity of Meghalaya:

Books:



Checklist of Flora of Meghalaya

Brochures:



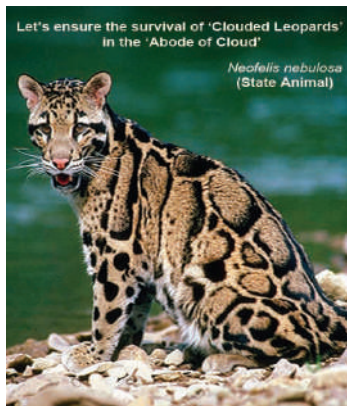
Meghalaya Biodiversity Board

The Biological Diversity Act (2002), Rules (2004) and the Meghalaya Biological Diversity Rules, 2010 all aim at achieving conservation of biodiversity, sustainable use of its resources and a fair and equitable sharing of benefits arising from such use.

Meghalaya Biodiversity Board, constituted in 2010, strives to achieve the above objectives by joining hands with the local communities, through various conservation measures and awareness programmes. So far 94 Biodiversity Management Committees (BMC) have been constituted in the state and 25 People's Biodiversity Registers (PBR) are under preparation.

Functions and Duties of the Board

- Advise the State Government on many matters concerning conservation of bio-diversity, sustainable use of its components and fair and equitable sharing of benefits arising out of the use of biological resource and knowledge.
- Regulate by granting of approvals or otherwise requests for commercial utilization or bio-survey and bio-utilization of any biological resource by Indian Nationals.
- Give directions to the local bodies/Bio-diversity Management Committees in writing and through appropriate oral means, for effective implementation of the Act, and to facilitate their meaningful participation in all measures relating to conservation, sustainable use, and equitable benefit-sharing.
- Facilitate updating and implementations of State Bio-diversity Strategy and Action Plan.
- Perform such other functions, as may be necessary to carry out the provisions of the Act or as may be prescribed by the State Government









MILESTONES OF ACHIEVEMENTS SINCE ESTABLISHMENT

- Constitution of 105 Biodiversity Management Committees (BMC) in Meghalaya.
- Capacity building in officers & staff of the Forest Department through training workshops.
- Notification of 'District Nodal Officers' and 'Technical Support Groups' for all the Districts.
- Distribution of Research Grants to 10 projects on Biodiversity Conservation.
- Publication of posters, pamphlets, etc. on Biodiversity.
- Release of a book 'Wild Orchids of Meghalaya: A Pictorial Guide'.
- Organising a statewide photography competition on nature to create awareness.
- Organising awareness campaigns in all districts.
- Preparation of 5-Year Plan on BMC, PBR and BHS.
- Participation in various biodiversity exhibitions.

Stickers











Bookmarks

 <p>Formation of BMC</p> <p><i>Section 41 of the Biological Diversity Act states as follows:-</i></p> <p>Every local body shall constitute a Biodiversity Management Committee within its area for the purpose of promoting conservation, sustainable use and documentation of biological diversity including preservation of habitats, conservation of land races, folk varieties and cultivars, domesticated stocks and breeds of animals and microorganisms and chronicling of knowledge relating to biological diversity.</p>	 <p>Office of the BMC</p> <p>The BMC will function from the office premises to be provided by the local body.</p> <p>Tenure of the BMC</p> <p>The tenure of the BMC will be five years / co-terminus with the tenure of the local body however, the existing BMC will continue to operate, until a new committee is constituted.</p>	<p>Meghalaya Biodiversity Board</p>    	<p>The Biological Diversity Act</p> <p><i>Enacted in 2002 and Rules notified in 2004</i></p> <p>Objectives:</p> <ul style="list-style-type: none"> Conservation of Biological Diversity. Sustainable use of its components. Equitable sharing of the benefits arising out of the use of biological resources, knowledge and for matters connected therewith or incidental thereto.
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Posters:

TRADITIONALLY USED SEEDS OF GARO HILLS

			
Phaseolus vulgaris	Phaseolus vulgaris	Cucurbita pepo	Luffa aegyptiaca
			
Zea mays	Abelmoschus esculentus	Solanum anguivi	Hibiscus cannabinus

<p>Scientific name: <i>Phaseolus vulgaris</i> Common name: Black beans Local name: Kark (Garo) Description: Plant is a pole type and grow approximately 2-3m tall. After reaching its maturity they generally produce all of their fruit in relatively short period of time and then ceased to produce. Traditional uses: It is used as a vegetable either boiled or fried and mixed with dry fish.</p>	<p>Scientific name: <i>Phaseolus vulgaris</i> Common name: French beans Local name: Bam (Garo) Description: Plant is a pole type and grow approximately 2-3m tall. After reaching its maturity they generally produce all of their fruit in relatively short period of time and then ceased to produce. Traditional uses: It is used as a vegetable either boiled or fried.</p>	<p>Scientific name: <i>Cucurbita pepo</i> Common name: Pumpkin Local name: Akku mangpi (Garo) Description: Pumpkins are short lived and has broad-lobed leaves with long petioles. The leaves are alternately arranged on the stem. The plant stem produces tendrils to help it climb adjacent plants and extend along the ground. Traditional uses: It is used in making chutneys by taking the seeds. It is also used as sticks after frying.</p>	<p>Scientific name: <i>Luffa aegyptiaca</i> Common name: Sponge gourd Local name: Sael (Garo) Description: Sponge gourd is about 30cm long fruit. It has striking yellow flowers. Traditional uses: The young fruit is eaten as a vegetable and the fully ripened fruit is strongly fibrous and inedible, and is used to make scrubbing bath sponges.</p>
<p>Scientific name: <i>Zea mays</i> Common name: Maize Local name: Nwaku (Garo) Description: Zea mays is an annual plant contains both male and female reproductive organs. It has a strong characteristic that is the female is completely enclosed by the outer layer known as the husk. Traditional uses: It is cooked an eaten as a snack and also dried and cooked as a cake.</p>	<p>Scientific name: <i>Abelmoschus esculentus</i> Common name: Ladyfinger Local name: Doro (Garo) Description: The plant is about 2m tall. The leaves are 10-20cm long and broad, palmately lobed with 5-7 lobes. The fruit is a capsule up to 10 cm long with perianth cross-section, containing numerous seeds. Traditional uses: It is cooked as a vegetable.</p>	<p>Scientific name: <i>Hibiscus cannabinus</i> Common name: Brown Indian hemp Local name: Sella (Garo) Description: The plant grows to a height of 6m. The fruit are capsules which are round and covered with perianth crown colored silky and contain brown seeds inside. Traditional uses: It is used as a vegetable either cooked with meat or dry fish.</p>	<p>Scientific name: <i>Solanum anguivi</i> Common name: Paa angguvi Local name: Kimo (Garo) Description: It is a shrub with spreading branches growing up to 3m tall. The stems are often prickly. Traditional uses: It is used to fry as a vegetable.</p>

MEGHALAYA BIODIVERSITY SERIES - 26

Department of Forests, Environment & Climate Change, Govt. of Meghalaya

Published by Meghalaya Biodiversity Board, Sylvan House, Lower Lachumiere, Shillong-793001.

(Photos & Illustrations: Parvitha Lujugand & Shreya; Photo-credit: Pixabay)

Tradable Bio-resources of Khasi and Jaintia Hills

	Gerbera sp.		Thysanotus maximus
	Cinnamomum tamala		Houttuynia cordata
	Sarcandra globosa		Bambusa pallida murro
	Phyllanthus capitatum		Passiflora edulis

<p>Scientific name: <i>Gerbera</i> Sp. Family: Asteraceae Common/Local Name: Gerbera Collection sites: Wenging, Pherzawl (East Jaintia Hills), etc. Description: The capitulum is 2-lipped ray floral with size of 10 cm in diameter. The leaves are dark green and leathery. The stem grows from the basal clump of leaves to about 40-60 cm. The colour of the flowers varies, from red, pink, yellow, orange, orange or white. Uses: It is used as an Ornamental flower.</p>	<p>Scientific name: <i>Thysanotus maximus</i> Family: Passiflorae Local name: Bym (Khasi) Collection sites: Nongstien village (East Khasi Hills), etc. Description: It is a large climber plant, growing up to 10 m tall. Its fruit black and globose to a fine point with margin of up to 30 cm long and 7 cm wide. Creeping tendrils are large ranging from 60-90 cm long or more. Uses: Used for Sweeping. It is reported outside the state and has demand throughout the country.</p>
<p>Scientific name: <i>Cinnamomum tamala</i> Family: Lauraceae Local name: Sa Jynai (Khasi) Collection sites: Sothai Market (East Khasi Hills), Dambai village (West Khasi Hills) and Mlang village (Pherzawl District), etc. Description: An evergreen tree, attaining the height of 7.5 m and girth of 14 cm. It is found in altitudes from 500 to 2500 m. Leaf length is 8-12 cm and width 6-9 cm. Uses: Used as spice in food and curry. Used for treatment of diabetes, cold and toothache.</p>	<p>Scientific name: <i>Houttuynia cordata</i> Family: Saururaceae Local name: Zu nyuh (Khasi) Collection sites: Sothai Market (East Khasi Hills), etc. Description: <i>H. cordata</i> is a creeping herb with spreading rhizomes. The stems are green or purplish red and either smooth or pubescent on the nodes. The leaves are usually heart shaped, 4-5 cm long and 2.5-4 cm wide and purple underneath. Uses: The whole plant part is eaten as salad. The leaves are eaten raw which acts as a blood purifier and is also used to treat skin and bone diseases.</p>
<p>Scientific name: <i>Sarcandra globosa</i> Family: Chloranthaceae Local name: Tee Khonon (Khasi) Collection sites: Sumbul market, Shillong, etc. Description: Leaf blade elliptical or ovate-lanceolate, leathery and margin sharply serrated. Leaves arranged in stem in opposite. Fruit globose, 3-5 mm in diameter and in cluster. Uses: Used as an ornamental plant during Christmas season. Its leaves and roots are also used for medicinal purposes.</p>	<p>Scientific name: <i>Bambusa pallida murro</i> Family: Poaceae Local name: U Shon (Khasi) Collection sites: With this village near Lakpyng (East Khasi Hills), etc. Description: The rhizomes are up to 10-10 cm apart, stem with 6-8 nodes at the base. It is a fast growing species, widespread, ornamental, medicinal and ornamental-landscaping resources. Uses: It is used in fencing, handcraft and souvenirs.</p>
<p>Scientific name: <i>Phyllanthus capitatum</i> Family: Euphorbiaceae Local name: Sa-rot (Khasi) Collection sites: Sothai Market village (East Khasi Hills), etc. Description: It is a rhizomatous evergreen plant, which bears flat pedicels with tiny flowers. It grows in well lit altitudes of 100-1000 m above sea level. The shrub 60 cm in height and 4-6 cm wide. Leaves are tough and length is 40-60 cm. Uses: Commonly used by locals for wrapping and packing of edible items.</p>	<p>Scientific name: <i>Passiflora edulis</i> Family: Passifloraceae Local name: Soth Brib (Khasi) Collection sites: Mlang market (West Khasi Hills), etc. Description: The passion fruit vine is a climber by means of tendrils. The nearly round to oval fruit is 4 - 7.5 cm wide, has a tough red, smooth, waxy ranging from green to dark purple. The pulp is filled with orange colored juicy juice and has many of 250 small and hard, dark brown or black pitted seeds. Uses: The fruit is eaten raw.</p>

MEGHALAYA BIODIVERSITY SERIES - 27

Department of Forests, Environment & Climate Change, Govt. of Meghalaya

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(Photos & Illustrations: Parvitha Lujugand & Shreya; Photo-credit: Pixabay)

THREATENED FISHES OF MEGHALAYA

	Scientific name: <i>Danio jaintianensis</i> (Sen, 2007) (Proc. Zool. Surv. India 2007 vol. 107 (Part 4): 28. Type locality: Tura, Garo hills, Meghalaya. Common name: Jaintia danio Distribution: Meghalaya IUCN Status: Vulnerable
	Scientific name: <i>Pethia shalyinus</i> (Yazdani and Talukdar, 1975) (J. Bombay Nat. Hist. Soc. 1975 vol. 72 (Part 1): 218. Type locality: Barapani lake, Khasi hills, Meghalaya. Common name: Shalyin barb Distribution: Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram and Nagaland. IUCN Status: Vulnerable
	Scientific name: <i>Aporichthys garoensis</i> Hora, 1925. (Proc. Indian Mus., 1925 vol. 27 (3): 223 figs. 1-4. Type locality: Tura, Garo hills, Meghalaya. Common name: Aporichthys loach Distribution: Arunachal Pradesh, Assam and Meghalaya. IUCN Status: Vulnerable
	Scientific name: <i>Schistura sjuwensis</i> (Menon, 1987) (Fauna of India, Pisces 1987 vol. 4: 174. Type locality: Sipi cave, Garo hills, Meghalaya. Common name: Meghalaya loach Distribution: Meghalaya IUCN Status: Endangered
	Scientific name: <i>Schistura reticulofasciata</i> (Singh and Banerjee, 1981) (Trav. Mus. Nat. Ind. Grigore Antipa, 1981 vol. 23: 206. Type locality: Barapani near Shillong, Meghalaya Common name: North eastern loach Distribution: Assam and Meghalaya IUCN Status: Vulnerable
	Scientific name: <i>Ptilais indica</i> Yazdani, 1972 (J. Bombay Nat. Hist. Soc. 1972 vol. 69 (Part 1): 134. Type locality: Sumar stream about 22 kms north of Shillong, Meghalaya Common name: Hillstream spinetail Distribution: Arunachal Pradesh, Assam and Meghalaya. IUCN Status: Endangered

MEGHALAYA BIODIVERSITY SERIES - 21

Department of Forests, Environment & Climate Change, Govt. of Meghalaya

Published by Meghalaya Biodiversity Board, Sylvan House, Lower Lachumiere, Shillong-793001.

(Photos and illustrations: NE Himalayan Centre of IIS & Dr. D. Day, Shillong; Design: Photo credit: Pixabay)

MEDICINAL PLANTS USED BY THE PEOPLE OF KHASI AND JAINTIA HILLS

	Scientific name: <i>Drynaria cordata</i> Local name: Dit roogon Family: Dryopteridaceae Description: A slender, diffuse aerial root. Leaves broad with a sharp pointed tip, stalked, with several lobes at the base. Flowers 4-6 mm across. Medicinal uses: The decortication of whole plant is used for treating scurvy and diabetes. Leaf paste is applied as an antiseptic in insect bite.		Scientific name: <i>Spilanthes acmella</i> Local name: Koning Family: Asteraceae Description: An annual herb up to 1m tall, stems opposite, only 2nd node. Flower heads solid, pale yellow, solitary or terminal panicles. Medicinal uses: Crushed inflorescence is put into boiling water to get oral tincture.
	Scientific name: <i>Phlogacanthus thyralliflorus</i> Local name: Oepghang yipi Family: Acanthaceae Description: Shrub 3-4 high, glaucous branched, bark grey or greyish-brown. Leaves rhombic-obovate, base glaucous beneath. Flowers deep red, slightly curved, about 4 cm. Medicinal uses: Leaves and bolls are soaked in rice, mashed and given in liver.		Scientific name: <i>Mahonia acuminifolia</i> Local name: Dapngang Family: Berberidaceae Description: An erect shrub or sparsely branched tree with soft bark. Leaves shining above and pale beneath. Spines teeth on either side, anthers very large. Flowers yellow. Medicinal uses: The green part of bark is extracted and the juice is diluted with water. Then the solution is used in eye drops by various eye diseases.
	Scientific name: <i>Lantana camara</i> Local name: Ding eih panghuh Family: Verbenaceae Description: It is a prostrate shrub and considered as a weed. Flowers orange, white or pinkish. Fruits purple-blue berries. Medicinal uses: Used as remedy for whooping cough, asthma, chronic bronchitis.		Scientific name: <i>Mimosa pudica</i> Local name: Sar nanth Family: Fabaceae Description: Often leafless, stems and branches prickly and hairy. Lateral very sensitive, twigs hairy on the margins and beneath. Flower pink, medicinal uses: Medicinal uses: Decoction of leaf is used for treating diabetes and skin diseases. The leaf paste is applied for boils.
	Scientific name: <i>Solanum nigrum</i> Local name: Soh ngang thaw Family: Solanaceae Description: An erect, glaucous bush branched herb up to 1 m tall. Leaves ovate-oblong with entire or serrate margins, narrow at both ends. Flowers white, berries orange or black and round. Medicinal uses: The juice of the plant is used for treating skin, cancer and other skin diseases. The fruits are also used for treating asthma.		Scientific name: <i>Costus speciosus</i> Local name: So pangur Family: Zingiberaceae Description: An erect plant, up to 2.7 m high, root stock tuberosus, stem 4-6 cm in diameter at the base. Leaves strongly spirally arranged. Flowers in very dense spikes and light red. Medicinal uses: Rhizome is dried and ground into powder and is used for treating inflammation and rheumatism.

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Department of Forests, Environment & Climate Change, Govt. of Meghalaya

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MEDICINAL PLANTS USED BY TRADITIONAL MEDICINE PRACTITIONERS IN GARO HILLS

 <p>Terminalia chebula</p> <p>Scientific name: Terminalia chebula Common name: Myrobalan Local name: Antik bol Family: Combretaceae Habit: Tree Medicinal use/Treatment: Against Gastritis Formulation: Bark and fruits of this plant are ground along with seeds of Phyllanthus amboinensis, leaves of Solanum affinis, leaves of Citrus sanctum, seeds of Spondias pinnata and young leaves of Aegle marmelos. This mixture is mixed with water and taken as a juice. Dose: Normally according to age, half a cup, two times a day before meal. Caution: Overuse may harm liver.</p>	 <p>Pistia stratiotes</p> <p>Scientific name: Pistia stratiotes Common name: Water lettuce Local name: Kap'ul/ Babo pul Family: Araceae Habit: Hydrophytic Medicinal use/Treatment: Against Diabetes Formulation: The whole plant is mixed with flowers of Adiantum species, seeds of Syzygium cumini, bulb of Allium cepa, bark of Anacardium occidentale, fruit/ bark of Syzygium jambos, young leaves of Curcuma xanthorrhiza, rhizomes of Xanthorrhiza species and Curcuma species, tubers of Dioscorea (Garo) and Allium species are warmed on fire and then dipped in cold water and stirred for 15-20 minutes. The stirred water is given as a drink. Dose: According to age, half cup, 2 times a day Caution: Over use may harm stomach.</p>	 <p>Datura metel</p> <p>Scientific name: Datura metel Common name: Devil's trumpet Local name: Baring koro Family: Solanaceae Habit: Shrub Medicinal use/Treatment: Against mental retardation Formulation: The whole plant is combined with the leaves of Elettaria (Garo), leaves of Acorus calamus, rhizomes of Curcuma species, top of Cassia toria, bones of Citrus aurantium and bones of Aspidium mesochloa and then ground. The mixture is used by the following two methods: 1. Mixed with water and given as a drink. 2. The mixture is inserted in a Tree and given to wear. Dose: Normally according to age and condition.</p>
 <p>Rauvolfia serpentina</p> <p>Scientific name: Rauvolfia serpentina Common name: Rauwolfia Local name: Dogrhina Family: Apocynaceae Habit: Herb Medicinal use/Treatment: Fight against malaria Formulation: Roots and young leaves of this plant are mixed with leaves of Scaevola taccada, leaves of Solanum elaeagnifolium, leaves of Aegle marmelos, stem of Solanum elaeagnifolium, young leaves of Phyllanthus amboinensis and Curcuma species. The mixture is then boiled in water and given as a drink. Dose: Normally used according to age, 2-3 table spoonful, 3 times a day after meal. Caution: Over use may harm liver/stomach.</p>	 <p>Citrus indica</p> <p>Scientific name: Citrus indica Common name: Indian wild orange Local name: Memeng namang Family: Rutaceae Habit: Tree Medicinal use/Treatment: Against ascaria Formulation: Fruits of this plant are mixed with young leaves of Corchorus torosus, leaves of Solanum affinis, Aloe vera pulp and rhizomes of Curcuma species and made a juice to drink. Dose: Normally according to age, 2-3 table spoon 3 times a day. Caution: Over use may harm stomach.</p>	 <p>Typhonium trilobatum</p> <p>Scientific name: Typhonium trilobatum Common name: Typhonium Local name: Duhangng/Bakulu Family: Araceae Habit: Waterland herb Medicinal use/Treatment: Against rheumatism Formulation: The leaves and stems of this plant are combined with flower juice of Cassia fistula, latex of Opuntia dilata, leaves of Euphorbia pulcherrima, berries of Piper nigrum, seeds and latex berries of Artocarpus corchoris and seeds of Calamus rotundus ground together, and then applied to the infected area. Dose: Normally according to age, 2 times a day once in the morning and evening Caution: Over use may harm skin.</p>

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MEDICINAL PLANTS USED BY TRADITIONAL MEDICINE PRACTITIONERS IN GARO HILLS

 <p>Ipomoea aquatica</p> <p>Scientific name: Ipomoea aquatica (Swamp cabbage) Local Name: Taweh chi Family: Convolvulaceae Habit: Hydrophytes Medicinal use: Against arsenic poison Formulation: The leaves of this plant are ground along with Curcuma xanthorrhiza rhizome, Calamus rotundus pods, Allamanda cathartica bark, Acorus calamus stem and Fermented bamboo shoots. Dose: Normally according to age, 2-3 times a day Caution: Over use may harm stomach.</p>	 <p>Argemone mexicana</p> <p>Scientific name: Argemone mexicana (Mexican poppy) Local Name: Naik wagan Family: Papaveraceae Habit: Waste land herb Medicinal use: Antivenereal for snake/ animals/insects bites Parts used: The roots, seeds and latex. Formulation: The selected parts of this plant is ground along with Euphorbia hirta leaves/roots, Terminalia indica seeds, Corchorus xanthorrhiza seeds, Allamanda cathartica bark, Penicillium notatum head and normal rice; the paste is applied on a infected area. Dose: Normally 2 times a day once in the morning and evening. Caution: Excessive use may cause painful infected part.</p>
 <p>Euphorbia pulcherrima</p> <p>Scientific name: Euphorbia pulcherrima (Christmas star) Local Name: Christmas pul Family: Euphorbiaceae Habit: Shrub Medicinal use: Cure cracking heels and scapel worms. Parts used: Leaves and latex Formulation: The leaves and latex of this plant along with Opuntia dilata latex, Jatropha curcas seeds, Jatropha gossypifolia seeds, Aloe vera pulp are ground and mixed; the paste is applied on the infected area. Dose: Normally according to age and skin type, 2 times a day once in the morning and evening. Caution: Over use may lead to skin problem.</p>	 <p>Curcuma amada</p> <p>Scientific name: Curcuma amada (Mango ginger) Local Name: Diko tegachhu Family: Zingiberaceae Habit - herb Medicinal use: Fight against Tuberculosis Parts used: The rhizome Formulation: The rhizome of this plant along with Agave americana sap, Aloe vera pulp, Bauhinia variegata bark, Curcuma xanthorrhiza seeds, Solanum elaeagnifolium, Acyrtosiphon globosus young leaves, Marlini zingiber berries, Opuntia species (red) stalk, Calamus rotundus leaves, The alkali tuber (Garo), Dike chi rhizome (Garo), etc., are ground together, rolled into a small marble size and swallowed. Dose: Normally according to age, 2 times a day after meal. Caution: Over use may harm liver.</p>
 <p>Oroxylum indicum</p> <p>Scientific name: Oroxylum indicum (Thumped tree) Local Name: Karing bol Family: Bignoniaceae Habit: Tree Medicinal use: Fight against jaundice Parts used: The young leaves and bark Formulation: The young leaves and bark of this plant along with Agave americana juice/latex, Curcuma domestica rhizomes, Leucosiphon sparganii leaves/pods, Allamanda cathartica bark (Garo), Curcuma species, rhizome, Solanum tuberosum (Garo) are ground, boiled together and then provided to drink. Dose: According to age, 2-3 table spoonful 3 times a day. Caution: Excessive use may harm stomach/tenes.</p>	 <p>Clerodendron colebrookianum</p> <p>Scientific name: Clerodendron colebrookianum (Glory bower) Local Name: Dongang bol Family: Lamiaceae Habit: Shrub Medicinal use: Against hypertension (high blood) Parts used: The leaves Formulation: The leaves of this plant along with Androsace acutum leaves, Bauhinia variegata bark, Aegle marmelos, Heterosiphon pods, Rauvolfia serpentina leaves, Allium sativum bulb are boiled together and then taken as a soup. Dose: Normally according to age, 2 times a day. Caution: Over use may harm stomach.</p>

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INDIGENOUS FRUITS OF GARO HILLS

 <p>Averrhoa carambola</p> <p>Scientific name: Averrhoa carambola Local name: Gata (Garo) Description: The fruit is about 5-15 cm in length and is of oval shape. It usually has five prominent longitudinal ridges, but in rare instances it can have as few as four or as many as eight. In cross section, it resembles a star. The skin is thin, smooth, waxy and turns a light to dark yellow when ripe.</p>	 <p>Delonix regia</p> <p>Scientific name: Delonix regia Local name: April (Garo) Description: Pods are dark brown and can be up to 80 cm long and 5 cm wide, the individual seeds are small. The compound leaves have a leafhairy appearance.</p>	 <p>Tamarindus indica</p> <p>Scientific name: Tamarindus indica Local name: Chang (Garo) Description: The "tamarind" is a long fruit, medium sized, bumpy tree, which attains a maximum height of 12-18 m. The fruit has a fleshy juicy pulp.</p>	 <p>Arca catechu</p> <p>Scientific name: Arca catechu Local name: Qata (Garo) Description: This tree has a fruit categorized as a drupe. It is commercially available in dried, cured and fresh forms. When the husk of the fresh fruit is green, the nut inside is not enough to be cut with a typical knife. In the ripe fruit, the husk becomes yellow or orange and, as it dries, the fruit inside hardens.</p>
 <p>Cassia fistula</p> <p>Scientific name: Cassia fistula Local name: Sena (Garo) Description: It is a medium-sized tree, growing to 10-20 m tall. The leaves are 15-40 cm long, each leaflet 7-11 cm long and 4-5 cm broad. The fruit is a legume, 30-60 cm long with a pungent odour and containing several seeds. Flowers are brightly yellow in colour.</p>	 <p>Calamus erectus</p> <p>Scientific name: Calamus erectus Local name: Solni (Garo) Description: Calamus erectus is an elegant palm. It does not climb and grows only to about 3m tall, with short, weakly climbing stems to 1m. The leaves are long, slightly curved and bear many long, wide leaflets.</p>	 <p>Ziziphus sp.</p> <p>Scientific name: Ziziphus sp. Local name: Karaji (Garo) Description: It is a small tree reaching a height of 5-12m. The leaves are shiny-green, ovate-acute. The fruit is an edible oval drupe, when immature it is streak-green.</p>	 <p>Crescentia cujete</p> <p>Scientific name: Crescentia cujete Local name: Puzil (Garo) Description: It is a dicotyledonous plant with single leaves, which are alternate or in clusters or short shoots.</p>

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WILD EDIBLE PLANTS USED BY THE PEOPLE OF KHASI HILLS AND JAINTIA HILLS

 <p>Agapetes variegata</p> <p>Scientific name: Agapetes variegata Local name: Solnamit Family: Viscaceae Description: Terminalia is epiphytic shrub, upto 5m high, bark greyish brown or reddish-brown, leaves broadly elliptic, glaucous-above, lower lobes, glabrous, greenish-red, pedicels red. Medicinal uses: Fruits having leaves are used as vegetable. Flowers are also cooked with fish.</p>	 <p>Rhynchosctechum ellipticum</p> <p>Scientific name: Rhynchosctechum ellipticum Local name: Jaltia Family: Gesneriaceae Description: An erect under shrub with thickening stem, young parts tenderest. Leaves opposite, broad elliptic, strongly acute, lateral nerves 14-15, are either half spread parallel. Flowers white. Medicinal uses: Tender shoots and leaves of the under shrub are eaten raw or boiled as vegetable.</p>
 <p>Adhatoda vesica</p> <p>Scientific name: Adhatoda vesica Local name: Lathad Family: Acanthaceae Description: Erect, stout perennial shrub. Leaves elliptic-lanceolate or ovate-lanceolate, dark green above, leathery. Flowers white, with tube. Fruit arranged in spikes with large bracts. Medicinal uses: Fruits having leaves are also cooked as vegetable. Flowers are also cooked as vegetable.</p>	 <p>Clerodendron colebrookianum</p> <p>Scientific name: Clerodendron colebrookianum Local name: Dimp Jamn Family: Viscaceae Description: A shrub about 5 m high with glaucous green and disagreeable smell. Bark aromatic. Leaves broad, ovate acute entire. Flowers in broad terminal compact corymbose compound cymes, leaves succulent. Uses: Tender leaves are eaten boiled or fried.</p>
 <p>Ficus hispida</p> <p>Scientific name: Ficus hispida Local name: Ding loon Family: Moraceae Description: Small tree with sparse branches. Leaves glaucous, venate, obtuse to acuminate, scabrid above. Habitat: Submontane forests. Uses: Ficus hispida leaves 2, stems 1. Bark: Ficus hispida (submontane) ripe long hairy. Uses: Young leaves are used as vegetable and ripe fruits are also edible.</p>	 <p>Eryngium foetidum</p> <p>Scientific name: Eryngium foetidum Local name: Diansi Itaw Family: Apiaceae Description: An erect, aromatic, glabrous, diffuse perennial herb with upright, cyperus marginal leaves. Flowers in heads. Color: Both light, near. Petals white. Uses: Leaves are eaten raw as salad or used in curry to flavor them or ground to make chutney.</p>
 <p>Houttuynia cordata</p> <p>Scientific name: Houttuynia cordata Local name: Jamarich Family: Sauraceae Description: A perennial herb with creeping root stock and upright stem. Flowers white in dense spikes, white. Uses: Tender shoots or leaves are eaten raw, usually ground with onion, chili and salt to make chutney or eaten with taro as a main salad.</p>	 <p>Physalis peruviana</p> <p>Scientific name: Physalis peruviana Local name: Saljida Family: Solanaceae Description: Herbs with soft, white leaves, small, yellow flowers with purple (or red) buds and mature (occasional) yellow, rounded from its bladder like body, it is about the size of a marble. Its bright yellow to orange in color. Uses: Fruit is eaten raw, related in salads.</p>

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BIRDS OF SHILLONG

Chocoma-collared Starling (<i>Chondestes malabaricus</i>)	Spotted-necked Dove (<i>Columbigallia chinensis</i>)	Female Common Rosefinch (<i>Eurostocheus arbutus</i>)
Brown Shrike (<i>Lanius cristatus</i>)	Fairren-breasted Woodpecker (<i>Dryocopus meruli</i>)	Green-back it (<i>Parus asiaticus</i>)
Scaly-breasted Minnie (<i>Loriculus pectoratus</i>)	Female Grey Shank & Bat (<i>Nesodipus chinensis</i>)	Yellow-rumped Tit (<i>Machalaphus chinensis</i>)

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Photos: Anand & Anoop by A. Anand

BIRDS OF MEGHALAYA

Black hooded Oriole (<i>Oriolus chinensis</i>)	Orange-headed Thrush (<i>Copsychus saularis</i>)	Long tailed Minivet (<i>Peripocetes alvayus</i>)	Large Niltava (<i>Niltava grandis</i>)
Green-backed Tit (<i>Parus monticola</i>)	Oriental Magpie Robin (<i>Copsychus saularis</i>)	Russet Sparrow (<i>Passer crassirostris</i>)	Chestnut-tailed Starling (<i>Sternia malabarica</i>)
Chestnut-crowned Laughing-thrush (<i>Trochilopteron erythrocephalum</i>)	Oriental Cuckoo (<i>Cuculus saturatus</i>)	Grey-backed Shrike (<i>Lanius lepyrolophus</i>)	Common Green Magpie (<i>Cissa chinensis</i>)

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Photos: 2001-2010 U.S. Design: PhotoLibrary.com

BIRDS OF MEGHALAYA

Whiskered Yuhina (<i>Yuhina brevirostris</i>)	Asian Emerald Cuckoo (<i>Chamaea jamaicensis</i>)	Ashy Bulbul (<i>Icthyophaga asiatica</i>)	Blue-throated Barbet (<i>Micropodops swinhonis</i>)
Blue-winged Minia (<i>Minia cyanoptera</i>)	Long-tailed Broadbill (<i>Ptilinopus delaisii</i>)	Moustached Hawk Eagle (<i>Hierosylus nipalensis</i>)	Talauard (<i>Orientalus chinensis</i>)
Black-crowned Bulbul (<i>Pycnonotus melanochrous</i>)	Vindicty Flycatcher (<i>Empidonax traillii</i>)	White-rumped Shama (<i>Myiophobus malabaricus</i>)	Asian Openbill (<i>Anasimus asiaticus</i>)

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Department of Forests, Environment & Climate Change
State of Meghalaya
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Photos: 2001-2010 U.S. Design: PhotoLibrary.com

Conserve the rare biodiversity in the caves of Meghalaya

SCIENTIFIC NAME: *Stroggys wrightsoni* (Thomas, 1913)
ORDER: Chiroptera; **FAMILY:** Molossidae
COMMON/LOCAL NAME: Wrightson's free-tailed bat / Labit tymit
DISTRIBUTION: The Wrightson's free-tailed bat was originally known in India by a single roosting colony located in a cave system in the Western Ghats, and Cambodia (Watson and Bates, 2001) suggested that its distribution range might be larger. With the latest finding in Jaintia Hills during an international caving expedition 2014 organized by the Meghalaya Adventurers' Association current international data indicate that there are approximately 200 individuals of this rare bat species in the whole world!

STATUS: Initially considered as Critically Endangered (up to 2000), but at present it is considered as Data Deficient (IUCN). Hunting and habitat destruction are the serious threats in Meghalaya. Study of its biology and conservation measures are immediately needed.

HABITAT: Apparently, this bat needs deep, natural caves for roosting. Its foraging behaviour and extent of territory are completely unknown.

SIGNIFICANCE: This urgency of conservation in the Jaintia Hills is due to the ongoing destruction of natural habitats due to unscientific limestone and coal mining (Bhattacharjee et al. 2012; Arbanaz 2013) or logging activities that can alter the vegetation quickly (Sarma 2005).

SCIENTIFIC NAME: *Sulistiana papulifera* (Kottelat, Harris & Freudenlohe, 2009) (Order: Cypriniformes; Family: Balitoridae)
COMMON/LOCAL NAME: Pamiang's blind cave fish / Lapatang Krem
DISTRIBUTION: The Pamiang's blind cave fish is currently known with certainty only from the Krem Synrang Pamiang cave system in the Jaintia Hills, (ICUN records). With the vertical depth of 377 m, Krem Synrang Pamiang happens to be the deepest cave in India.
STATUS: It is considered as "critically endangered" (IUCN).
HABITAT: This blind fish needs deep, natural caves for living and an annual monsoon replenishment of their external source of nutrients. Many months after the monsoon, the fish lives in scarcity of food and dissolved oxygen.
SIGNIFICANCE: This urgency of conservation in the Jaintia Hills is due to the ongoing severe destruction of native habitats due to unscientific limestone and coal mining (Bhattacharjee et al. 2012; Arbanaz 2013). Proper study of this fish might also throw some insight into evolutionary aspects and the aquatic physiological adaptation under very low dissolved oxygen and of long spell of food shortage.

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State of Meghalaya
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Concept by D. Khur & Mithun

5. Activities of the Board (2016-17)

The following are the activities which have either been organized or participated by the Board during the year 2016-2017:

1. State Level Workshop (NEHU):

The Board in collaboration with the Forests & Environment Department, Government of Meghalaya organized a State Level Workshop for all Stakeholders on “Biodiversity Conservation and Provisions of the Biological Diversity Act, 2002” on the 16th December, 2016 at Multi Use Convention Centre, North Eastern Hill University, Shillong.

Few pictures from the workshop:





2. The board organised peer to peer learning visits for the benefit of the BMC members to West Bengal (June 2016) & Kerala (November 2016).
3. In the year 2016-17, Wildlife Institute of India, Dehradun is engaged by the Board to prepare the Meghalaya Biodiversity Strategy & Action Plan (MBSAP). Stakeholders' consultation meeting was held in the Conference Hall of Sylvan House, Lower Lachumiere, Shillong on the 13th and 14th of December, 2016.
4. MBB's nominee, a Self Help Group from Mawkyrnot, won the prestigious India Biodiversity Award, 2016 under the category **"Sustainable use of Bio-resources"** for promoting and protecting root bridges of Meghalaya.

Few pictures from the Award Ceremony which showcase the award recipients:



6. Awareness Campaigns: The list of various awareness programmes conducted throughout Meghalaya (2016-2017) are as follows:

Date & Year	Place/Venue	Programme
30 th July, 2016	Nongsangu, Umsning Block	Awareness Programme on BMC
26 th August, 2016	Namdong, Thadlaskein block	Awareness Programme on BMC
22 nd September, 2016	Amlarem, West Jaintia Hills	Awareness Programme on BMC and Community Reserve
27 th September, 2016	Bataw, Khliehriat Block	Awareness Programme on BMC
1 st November, 2016	Laitkroh BDO Office	Awareness meeting with the VEC members and Headmen from different villages under Laitkroh block about BMC
9 th November, 2016	Betasing, Tura	Awareness Programme on BMC at Betasing for all the Gram Sevaks of both Betasing and Zik-Zak Block
6 th December, 2016	Williamnagar	Awareness Programme on BMC at Social Forestry, DFO office for all the Gram Sevaks and villages under Williamnagar
11 th January, 2017	Lad Mukhla (West Jaintia Hills)	Awareness Programme organised by the DFO Wildlife Division, Jowai
13 th January, 2017	Mynsngat (West Jaintia Hills)	Awareness Programme organised by the DFO Wildlife Division, Jowai
16 th January, 2017	Moodop (West Jaintia Hills)	Awareness Programme organised by the DFO Wildlife Division, Jowai
18 th January, 2017	Kutmadan, Sohra, Shella-Bholaganj Block	Awareness Programme organised by the DFO Wildlife Division, East Khasi Hills
20 th January, 2017	Namdong, West Jaintia Hills	Awareness Programme organised by the DFO Wildlife Division, Jowai
11 th January, 2017	Lad Mukhla, West Jaintia Hills	Awareness Programme organised by the DFO Wildlife Division, Jowai
13 th January, 2017	Mynsngat, West Jaintia Hills	Awareness Programme organised by the DFO Wildlife Division, Jowai.
31 st January, 2017	Mawngap, Mawphlang, Rangskhen	Introductory meeting with the people regarding BMC and also PBR preparation. Went for survey to Rangskhen with the experts from Kolkatta and meeting Bah Tambor in Mawphlang
31 st January, 2017	Mawngap, Mawphlang, Rangskhen	Introductory meeting with the people regarding BMC and also PBR preparation. Went for survey to Rangskhen with the experts from Kolkatta and meeting Bah Tambor in Mawphlang



15 th February, 2017	Umsning	Introductory meeting with the BMC members about BMC and PBR preparation.
14 th March, 2017	Rangskhen	Introductory meeting with the people regarding BMC and also PBR preparation and survey at Rangskhen village.
15 th March, 2017	Sohiong	Introductory meeting with the people regarding BMC and also PBR preparation and survey at Law Sohiong.

Few pictures from Awareness Campaigns.

Rangskhen



Umsning



Sohiong



7. Research Projects undertaken and completed by the Board (2016-2017):

1. Raja Nongkhlaw:

Livestock Biodiversity in Khasi and Jaintia Hills of Meghalaya: This project is carried out to assess the current status of the variety of farm animals reared by public and privatized enterprises within the Khasi and Jaintia Hills of the State of Meghalaya.



Holstein Friesian Cross Breed



Jersey Cross Breed

(Regional Crossbred Cattle Breeding Project Kyrdemkulai, Ri-Bhoi)

Aquatic Biodiversity in Khasi and jaintia Hills of Meghalaya: The objective of the study is to assess and document all available species of aquatic flora and fauna present in the water bodies within Khasi and Jaintia Hills of the State.



Scientific Name: *Costus speciosus*



Scientific Name: *Odorrana* sp.



2. Welfareson Khongriah

Survey and Documentation on Tradable Bio-Resources in Khasi and Jaintia Hills of Meghalaya: The objective of the study is to explore the plants and animals of Khasi, Jaintia and Ri-Bhoi districts of Meghalaya which are traded within the State, to other states of the country and also to the neighboring Country Bangladesh.



Scientific Name: *Thysanolaena maxima*



Scientific Name: *Cinnamomum tamala*

Survey and Documentation on Wild Edible Mushrooms in Khasi and Jaintia Hills of Meghalaya: The objective of the study is to survey and document the wild edible mushroom species consumed by the people of Khasi and Jaintia Hills of the State. Identification of Mushrooms which are edible or poisonous has also been done.



Tit dud
Lactarius volemus

Scientific Name: *Albatrellus* sp.

Local Name: Tit Thylliej Masi



Tit Thylliej Masi
Albatrellus sp.

Scientific Name: *Lactarius volemus*

Local Name: Tit dud



3. Sanggra Ch. Momin

Survey and Documentation of tradable Bio-Resources of Garo Hills, Meghalaya: The objective of the study is to survey and document the tradable bio-resources of Garo Hills, categorize the uses of different tradable species and evaluate and analyze the primary information based on market visits.



Scientific Name: *Carissa Carandas* (Fruit)



Scientific Name: *Phaseolus species* (Vegetable)

Survey and Documentation on Ethno-Botanically Important Species (Wild Species) and their miscellaneous uses in Garo Hills, Meghalaya: The objective of the study is to survey and document the ethno-botanically important wild species and to categorize the traditional knowledge and their uses.

4. Auphelia. B. Syiem

Survey and Documentation of Climbers and Creepers of Khasi and Jaintia Hills, Meghalaya: The objective of the study is to survey and document the climbers and creepers of Khasi and Jaintia Hills of Meghalaya. The study also enlists the plant species with their habitats, common/local names and uses as far as possible.



Scientific Name: *Ficus pumila*
Common Name: Climbing Fig



Scientific Name: *Passiflora edulis*
Local Name: Sohbrap

5. Baaijingkmen Nongkynrih

Survey and Documentation of Beetles in Khasi and Jaintia Hills: The objective of the study is to document the order Coleoptera of the class Insecta in Khasi and Jaintia Hills. The study also provides information on the diversity and abundance of Beetles in Khasi and Jaintia Hills, Meghalaya.



Scientific Name: *Rhynchophorus ferrugineus*
Common Name: Weevil Beetle



Scientific Name: *Coccinella transversalis*
Common Name: Ladybird Beetle

6. Pyndaplin Lyngdoh

Survey and Documentation of Wildflowers of Khasi and Jaintia Hills: The objective of the study is to survey and document all the available wild flowers found in Khasi and Jaintia Hills. The study also provides information on the importance and uses of the Wildflowers.



Scientific Name: *Potentilla fulgen*



Scientific Name: *Oxalis articulata*



8. Release of Start-up funds to the BMCs:

In 2016-17, the Board has released Start-up Funds which are detailed below:

Date & Year	Place	Amount
28/04/16	Local Biodiversity Fund of Durabanda BMC	20,000
28/04/16	Local Biodiversity Fund of Satilogre BMC	20,000
28/04/16	Local Biodiversity Fund of Dap-Rongadiggre BMC	20,000
28/04/16	Local Biodiversity Fund of Dangkipara BMC	20,000
28/04/16	Local Biodiversity Fund of Dana Adugre BMC	20,000
28/04/16	Local Biodiversity Fund of Amponggre BMC	20,000
28/04/16	Local Biodiversity Fund of Daljagre BMC	20,000
28/04/16	Local Biodiversity Fund of Mongalgre BMC	20,000
28/04/16	Local Biodiversity Fund of Dechingre BMC	20,000
28/04/16	Local Biodiversity Fund of Chibongre BMC	20,000
28/04/16	Local Biodiversity Fund of Magalpara BMC	20,000
28/04/16	Local Biodiversity Fund of Aruakgre BMC	20,000
28/04/16	Local Biodiversity Fund of Nonglwai II BMC	20,000
28/04/16	Local Biodiversity Fund of Pyndeng Umjarain BMC	20,000
28/04/16	Local Biodiversity Fund of Diwon Rangblang BMC	20,000
28/04/16	Local Biodiversity Fund of Por Mawlai BMC	20,000
28/04/16	Local Biodiversity Fund of Khulia Village BMC	20,000
28/04/16	Local Biodiversity Fund of Myrdon Nongbah BMC	20,000
28/04/16	Local Biodiversity Fund of Khlieh Mushut BMC	20,000
24/06/16	Local Biodiversity Fund of Khlieh Rangnah BMC	20,000
24/06/16	Local Biodiversity Fund of Umsalang BMC	20,000
24/06/16	Local Biodiversity Fund of Musiaw BMC	20,000
24/06/16	Local Biodiversity Fund of Thadialong BMC	20,000
24/06/16	Local Biodiversity Fund of Mawlangwir BMC	20,000
24/06/16	Local Biodiversity Fund of Wahlyngdoh BMC	20,000
16/09/16	Local Biodiversity Fund of Kur Syiem BMC	20,000
16/09/16	Local Biodiversity Fund of Sohkhhar BMC	20,000
16/09/16	Local Biodiversity Fund of Rongskong BMC	20,000
16/09/16	Local Biodiversity Fund of Nongthymmai BMC	20,000
16/09/16	Local Biodiversity Fund of Mawtneng BMC	20,000
16/09/16	Local Biodiversity Fund of Bhain BMC	20,000
16/09/16	Local Biodiversity Fund of Thadsning BMC	20,000
16/09/16	Local Biodiversity Fund of Mukhap BMC	20,000
16/09/16	Local Biodiversity Fund of Latymphu BMC	20,000
16/09/16	Local Biodiversity Fund of Mootyrshiah A BMC	20,000
16/09/16	Local Biodiversity Fund of Shangpung Pohshnong BMC	20,000
28/09/16	Local Biodiversity Fund of Rymbai BMC	20,000



28/09/16	Local Biodiversity Fund of Dkhiah BMC	20,000
28/09/16	Local Biodiversity Fund of Moolamyliang BMC	20,000
28/09/16	Local Biodiversity Fund of Nongthymme BMC	20,000
28/09/16	Local Biodiversity Fund of Suchen Rim BMC	20,000
28/09/16	Local Biodiversity Fund of Lumshken BMC	20,000
27/10/16	Local Biodiversity Fund of Miangshiang BMC	20,000
02/12/16	Local Biodiversity Fund of Sohbar BMC	20,000
02/12/16	Local Biodiversity Fund of Kutmadan BMC	20,000
02/12/16	Local Biodiversity Fund of Tymphiah Kasu BMC	20,000
02/12/16	Local Biodiversity Fund of Cham Cham BMC	20,000
02/12/16	Local Biodiversity Fund of Byndihati BMC	20,000
02/12/16	Local Biodiversity Fund of Moolang BMC	20,000





**Audited Financial Statements
for the year 2016-2017**



Kiron Joshi & Associates

Chartered Accountants

Regn. No. 313048 E

LDB Building : G. S. Road, Shillong - 793 001, Phone : 2223727, Fax : (0364) 2224647, Email : kironjoshiassociates@gmail.com

AUDITORS' REPORT

We have examined the annexed Balance Sheet as at 31.03.2017 and Income & Expenditure Account and Receipts and Payments Account for the year ended on that date of **MEGHALAYA BIODIVERSITY BOARD: SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG.**

These financial statements are the responsibility of the Board. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with the auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance whether the financial statements are free of material misstatement.

An audit includes examining on test basis, evidence supporting the amounts and disclosure in financial statement. An audit also includes assessing the accounting principles used and significant estimates read with the estimate related disclosures made in the notes on accounts by the centre as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We have obtained all the information we have required for those accounts which were placed before us. The said accounts are in agreement with the books and according to the explanations given to us and read with the annexed notes on accounts, said accounts give true and fair view in conformity with the accounting principles generally accepted in India of the state of affairs of the Board as on 31.3.2017 and of its Income & Expenditure for the year ended on that date.

Place: Shillong
Date: 18.03.2019



for KIRON JOSHI & ASSOCIATES
Chartered Accountants.


KIRON JOSHI.
(Membership No.051046)

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

BALANCE SHEET AS AT 31.03.2017

LIABILITIES		ASSETS	
CAPITAL FUND:		FIXED ASSETS:	
Opening Balance:	918148.86	As per Schedule 'A'	1310362.00
(+) Excess of Income over Expenditure	<u>915209.00</u>		
	1833357.86		
GRANT FUND:		CURRENT ASSETS:	
Opening balance	23531378.00	Cash in Hand	
(+) Received during the year from:		Cash at Bank :SB A/c with	
a) National Biodiversity Authority, Chennai	1234035.00	SBI A/c No. 32375460838	<u>20036125.86</u>
b) Government of Meghalaya	<u>4432000.00</u>		20036125.86
	29197413.00		
(-) Utilised during the year for revenue expenses as per Income & Expenditure Account:			
a) National Biodiversity Authority, Chennai	4607576.00		
b) Government of Meghalaya	<u>5076707.00</u>		
	19513130.00		
	<u>₹ 21346487.86</u>		<u>₹ 21346487.86</u>

Place : Shillong
Date : 18.03.2019

In terms of our audit report of even date for KIRON JOSHI & ASSOCIATES Chartered Accountants



(Signature)
KIRON JOSHI
(Membership No. 051046)

(Signature)
Secretary
Meghalaya Biodiversity Board
Shillong



MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2017

EXPENDITURE	INCOME	
STATE PLAN EXPENSES:	Grant in Aid from:	
A) Salary Component:	a) Government of Meghalaya	5076707.00
Salary & Allowances	b) National Biodiversity Authority, Chennai	4607576.00
		9684283.00
B) Non Salary Component :		
1. Travelling/Sitting Allowance	222188.00	
2. Office Expenses		
a) Stationery	41671.00	Bank Interest
b) Telephone	18351.00	Sale of books
c) POL & Vehicle Maintenance	172389.00	
d) Consumables for Computers	17631.00	
e) Postal Stamps	9657.00	
f) Bank Charges	230.00	
g) Wages	1600.00	
	261529.00	
3. Other Charges :		
a) Formation of Expert group, field visits, consultation & Preparation of SBAP	200000.00	
b) Contingent Expenditure	13060.00	
	213060.00	
4. Minor Works		
a) Publicity Materials	115315.00	
b) Sponsoring State Level Workshop	327963.00	
c) Organising Biodiversity related Workshops	250000.00	
d) Supply of books/DVDS ets	330000.00	
	1023278.00	
5. Major Works :		
a) Publish /republish books/ documents/compilations on the topic of Biodiversity and culture of Meghalaya	370000.00	
b) Organising Awareness Programmes for BMCs	550000.00	
c) Sponsoring investigation/ research on components of Biodiversity in Meghalaya	100000.00	
	1020000.00	
6. Miscellaneous Expenditure	5055.00	
7. Advertisement	28000.00	
8. Start Up Fund for BMCs	980000.00	
NBA EXPENSES:		
Salary of outsourced/contract personnel	1019000.00	
Infrastructure Development of State Biodiversity Board	358218.00	
Thematic Expert Committees meeting	57558.00	
Preparation of People's Biodiversity Register	1663200.00	
Peer to Peer Learning Programme	574199.00	
Balance C/F	₹ 8748882.00	Balance C/F
		₹ 10982230.00



Contd....P/2

Secretary
 Meghalaya Biodiversity Board
 Shillong

:2:

Balance B/F	₹ 8748882.00	Balance B/F	₹ 10982230.00
Expenses on Translation of Material Printing & Dissemination	40000.00		
Amount refund to NBA, Chennai	215401.00		
Financial assistance for Celebration of IBD released to:			
a) DFO, Silviculture Division, East Khasi Hills	20000.00		
b) DFO, East Khasi Hills Wildlife Division	30000.00		
c) DFO, East Garo Hills Wild Life Division	30000.00		
d) DFO, East Garo Hills Social Forestry Division	60000.00		
e) DFO, West Garo Hills Wild Life Division	30000.00		
f) DFO, West Garo Hills Social Forestry Division	60000.00		
g) DFO, South Garo Hills Wild Life Division	60000.00		
h) DFO, West Khasi Hills Social Forestry Division	60000.00		
i) DFO, East Khasi Hills Social Forestry Division	30000.00		
j) DFO, East Khasi Hills Wildlife Division	30000.00		
k) DFO, Jaintia Hills Wildlife Division	60000.00		
l) DFO, East Jaintia Hills Social Forestry Division	60000.00		
m) DFO, Ri Bhoi Social Forestry Division	60000.00		
n) DFO, North Garo Hills Wildlife Division	30000.00		
o) DFO, South West Garo Hills Social Forestry Division	30000.00		
p) DFO, South West Khasi Hills Social Forestry Division	30000.00	680000.00	
EXPENSES OUT OF INTEREST			
Printing of Annual Report for 2012 -15	146667.00		
Depreciation	236071.00		
Excess of Income over Expenditure	915209.00		
	<u>₹ 10982230.00</u>		<u>₹ 10982230.00</u>

Place : Shillong
Date : 18.03.2019

In terms of our audit report of even date for KIRON JOSHI & ASSOCIATES Chartered Accountants



KIRON JOSHI
(Membership No. 051046)

(Signature)
Secretary
Meghalaya Biodiversity Board
Shillong



**MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG**

RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2017

<u>RECEIPTS</u>		<u>PAYMENTS</u>	
Opening Balances :		STATE PLAN EXPENSES:	
Cash in Hand	-	A) Salary Component:	
Cash at Bank :SB A/c with SBI A/c No. 32375460838	22904947.86	Salary & Allowances	1323597.00
	22904947.86	B) Non Salary Component :	
Grant in Aid from:		1. Travelling/Sitting Allowance	222188.00
a) Government of Meghalaya	4432000.00	2. Office Expenses :	
b) National Biodiversity Authority, Chennai	1234035.00	a) Stationery	41671.00
	5666035.00	b) Telephone	18351.00
Bank Interest	1204885.00	c) POL & Vehicle Maintenance	172389.00
Sale of books	93062.00	d) Consumables for Computers	17631.00
		e) Postal Stamps	9657.00
		f) Purchase of Biodiversity related Books	1854.00
		g) Bank Charges	230.00
		h) Wages	1600.00
			263383.00
		3. Other Charges :	
		a) Formation of Expert group, field visits, consultation & Preparation of SBAP	200000.00
		b) Contingent Expenditure	13060.00
			213060.00
		4. Minor Works	
		a) Publicity Materials	115315.00
		b) Sponsoring State Level Workshop	327963.00
		c) Organising Biodiversity related Workshops	250000.00
		d) Supply of books/DVDS ets	330000.00
			1023278.00
		5. Major Works :	
		a) Publish /republish books/ documents/compilations on the topic of Biodiversity and culture of Meghalaya	370000.00
		b) Organising Awareness Programmes for BMCs	550000.00
		c) Sponsoring investigation/ research on components of Biodiversity in Meghalaya	100000.00
			1020000.00
		6. Miscellaneous Expenditure	5055.00
		7. Advertisement	28000.00
		8. Start Up Fund for BMCs	980000.00
		NBA EXPENSES:	
		Salary of outsourced/contract personnel	1019000.00
		Infrastructure Development of State Biodiversity Board	358218.00
		Thematic Expert Committees meeting	57558.00
		Preparation of People's Biodiversity Register	1663200.00
Balance C/F	₹ 29868929.86	Balance C/F	₹ 8176537.00

Contd....P/2



[Signature]
Secretary
Meghalaya Biodiversity Board
Shillong

Balance B/F	₹ 29868929.86	Balance B/F	₹ 8176537.00
		Peer to Peer Learning Programme	574199.00
		Expenses on Translation of Material	
		Printing & Dissemination	40000.00
		Amount refund to NBA, Chennai	215401.00
		Financial assistance for Celebration of IBD released to:	
		a) DFO, Silviculture Division, East Khasi Hills	20000.00
		b) DFO, East Khasi Hills Wildlife Division	30000.00
		c) DFO, East Garo Hills Wild Life Division	30000.00
		d) DFO, East Garo Hills Social Forestry Division	60000.00
		e) DFO, West Garo Hills Wild Life Division	30000.00
		f) DFO, West Garo Hills Social Forestry Division	60000.00
		g) DFO, South Garo Hills Wild Life Division	60000.00
		h) DFO, West Khasi Hills Social Forestry Division	60000.00
		i) DFO, East Khasi Hills Social Forestry Division	30000.00
		j) DFO, East Khasi Hills Wildlife Division	30000.00
		k) DFO, Jaintia Hills Wildlife Division	60000.00
		l) DFO, East Jaintia Hills Social Forestry Division	60000.00
		m) DFO, Ri Bhoi Social Forestry Division	60000.00
		n) DFO, North Garo Hills Wildlife Division	30000.00
		o) DFO, South West Garo Hills Social Forestry Division	30000.00
		p) DFO, South West Khasi Hills Social Forestry Division	30000.00
			<u>680000.00</u>
		EXPENSES OUT OF INTEREST	
		Printing of Annual Report for 2012 -15	146667.00
		Closing Balances :	
		Cash in Hand	-
		Cash at Bank :SB A/c with SBI A/c No. 32375460838	20036125.86
			<u>20036125.86</u>
			₹ <u>29868929.86</u>
			₹ <u>29868929.86</u>

Place : Shillong
Date : 18.03.2019



In terms of our audit report of even date for KIRON JOSHI & ASSOCIATES Chartered Accountants

KIRON JOSHI
(Membership No. 051046)

[Signature]
Secretary
Meghalaya Biodiversity Board,
Shillong



MEGHALAYA BIODIVERSITY BOARD
 SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2017

SI No	PARTICULARS	OPENING BALANCE	GROSS BLOCK		DELETION	AS ON 31.03.2017	RATE	DEPRECIATION			NET BLOCK AS ON 31.03.2017
			BEFORE 30.09.2016	AFTER 30.09.2016				OPENING BALANCE	FOR THE YEAR	TOTAL	
1	Furniture & Fixtures	432532.00	-	-	-	432532.00	10%	62866.00	36967.00	99833.00	332699.00
2	Computer & Peripherals	323810.00	-	-	-	323810.00	40%	251700.00	28844.00	280544.00	43266.00
3	Office Equipments	591395.00	-	-	-	591395.00	15%	119399.00	70799.00	190198.00	401197.00
4	Books	130602.00	1854.00	-	-	132456.00	20%	41211.00	18249.00	59460.00	72996.00
5	Vehicle	688605.00	-	-	-	688605.00	15%	147189.00	81212.00	228401.00	460204.00
	TOTAL	2166944.00	1854.00	-	-	2168798.00		622365.00	236071.00	858436.00	1310362.00



[Handwritten Signature]
 Secretary
 Meghalaya Biodiversity
 Shillong



MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS FOR THE YEAR
ENDED 31.03.2017

1. The financial statements have been prepared on the basis of historical cost convention and on the cash method of accounting.
2. Accounting policies not specifically referred to otherwise are consistent and in consonance with generally accepted accounting principles.
3. Grant received to the extent utilised for revenue expenditure during the year have been recognised as income in the Income and Expenditure Account. The unutilised balance is shown as liability under Grant Fund in the Balance Sheet.
4. a) Fixed Assets have been stated at cost with addition during the year, depreciation charged till 31.03.2016 and depreciation for the year as per details given in Schedule 'A'.

b) Depreciation on Fixed Assets have been charged as per WDV method and as per the rates and manner prescribed under the Income Tax Rules.
5. Retirement benefits to employees have not been provided for. It will be charged to revenue as and when paid.




Secretary
Meghalaya Biodiversity Board
Shillong

**MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG**

BANK RECONCILIATION STATEMENT FOR THE YEAR ENDED 31.03.2017

Bank balance as per Pass Book ₹ 20603611.86

(-) Cheque issued but not presented for payment till 31.03.2017:

<u>Date</u>	<u>Chque No.</u>	<u>Amount</u>	
14.03.2017	199828	30000.00	
31.03.2017	199836	16569.00	
31.03.2017	199837	148782.00	
31.03.2017	199838	97991.00	
31.03.2017	199839	28876.00	
31.03.2017	199844	87000.00	
31.03.2017	199840	7419.00	
31.03.2017	199841	22329.00	
31.03.2017	199842	5000.00	
31.03.2017	199843	3420.00	
31.03.2017	199845	110100.00	
12.01.2017	199806	<u>10000.00</u>	567486.00

Bank balance as per Cash book ₹ 20036125.86




 Secretary
 Meghalaya Biodiversity Board
 Shillong

PART-III

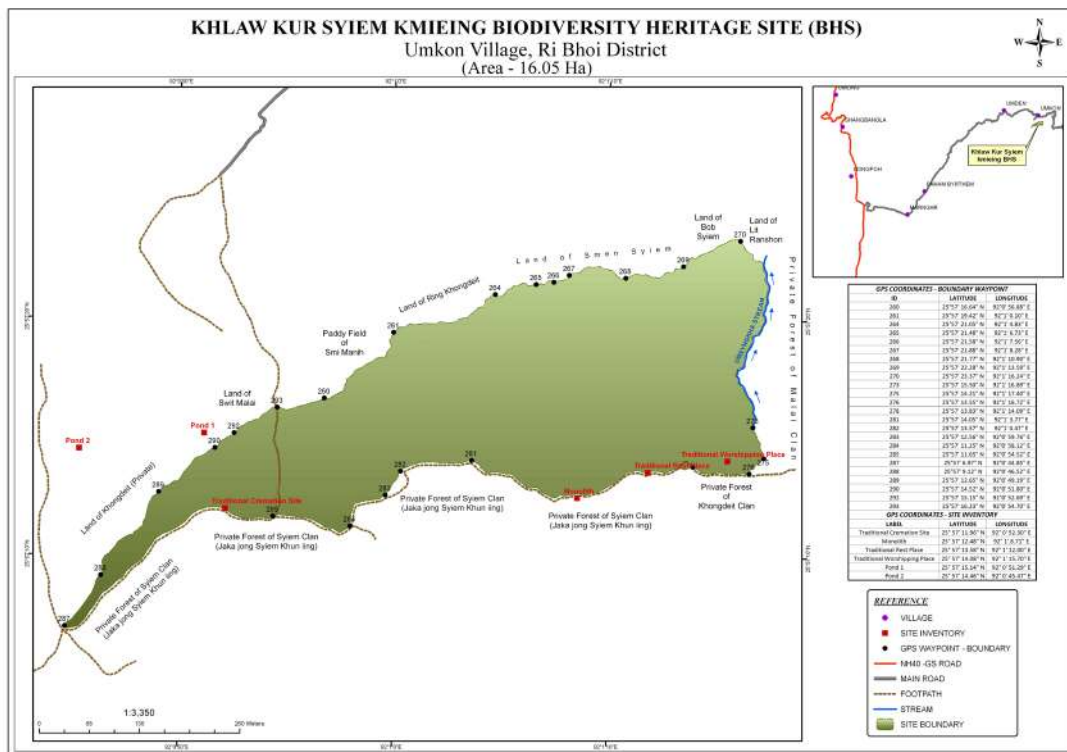


Board Activities for the year 2017-2018

The main activities of the Board up to March, 2018 are encapsulated as follows:

1. Notifications pertaining to the Board (2017-18)

On 13th December, 2018 the Government of Meghalaya in consultation with the Meghalaya Biodiversity Board issued the notification regarding the declaration of the designated area under Umkon Village, Umling Block of Ri-bhoi District as the **Khlaw Kur Syiem Kmielang Biodiversity Heritage Site**.



Notification No.: FOR.53/2018/59 Shillong, Dt.:13.12.2018

**GOVERNMENT OF MEGHALAYA
FORESTS & ENVIRONMENT DEPARTMENT

ORDERS BY THE GOVERNOR

NOTIFICATION

Dated: Shillong, the 13th December, 2018.

NO.FOR.53/2018/59 – In exercise of the powers conferred by sub section (1) of section 37 of the Biological Diversity Act, 2002 (No.18 of 2003) and rule 22 of the Meghalaya Biological Diversity Rules, 2010, the State Government in consultation with the Meghalaya Biodiversity Board (MBB), hereby notifies the designated area under Umkon Village, Umling Block as described below as **Khlaw Kur Syiem KmieIng Biodiversity Heritage Site:-**

1. **Short Title:** This notification may be called as the ‘**Final Notification of Khlaw Kur Syiem KmieIng Biodiversity Heritage Site (BHS)**’. It will come into force on the date of its publication in the official Gazette.
2. **Extent of Application:** This notification shall apply to the designated area of **Khlaw Kur Syiem KmieIng** under Umkon Village, Umling Block, Ri-Bhoi District. The details of the area and boundary of the Khlaw Kur Syiem KmieIng BHS are given in the land schedule below:
3. **Land Schedule:**
 - a. **Khlaw Kur Syiem KmieIng BHS**

i. **The Area covered**

Name of BHS	Area (Ha)
Khlaw Kur Syiem KmieIng BHS	16.05

ii. **GPS-Co-ordinates:**

The boundaries of the **Khlaw Kur Syiem KmieIng BHS** are subtended by below mentioned GPS co-ordinates:

GPS CO-ORDINATES – BOUNDARY WAY POINTS		
ID	LATITUDE	LONGITUDE
260	25° 57' 16.64" N	92° 0' 56.88" E
261	25° 57' 19.42" N	92° 1' 0.10" E
264	25° 57' 21.05" N	92° 1' 4.83" E
265	25° 57' 21.48" N	92° 1' 6.73" E
266	25° 57' 21.58" N	92° 1' 7.56" E
269	25° 57' 22.28" N	92° 1' 13.59" E
270	25° 57' 23.37" N	92° 1' 16.24" E
273	25° 57' 15.50" N	92° 1' 16.89" E
275	25° 57' 14.21" N	92° 1' 17.40" E
276	25° 57' 13.55" N	92° 1' 16.72" E
278	25° 57' 13.83" N	92° 1' 14.09" E
281	25° 57' 14.05" N	92° 1' 3.77" E
282	25° 57' 13.57" N	92° 1' 0.47" E
283	25° 57' 12.56" N	92° 0' 59.76" E
284	25° 57' 11.25" N	92° 0' 58.12" E
285	25° 57' 11.65" N	92° 0' 54.52" E
287	25° 57' 6.97" N	92° 0' 44.85" E
288	25° 57' 9.12" N	92° 0' 46.52" E
289	25° 57' 12.65" N	92° 0' 49.19" E
290	25° 57' 14.52" N	92° 0' 51.80" E
292	25° 57' 15.15" N	92° 0' 52.69" E
293	25° 57' 16.23" N	92° 0' 54.70" E



GPS CO-ORDINATES – SITE INVENTORY

LABEL	LATITUDE	LONGITUDE
Traditional Cremation Site	25° 57' 11.96" N	92° 0' 52.30" E
Monolith	25° 57' 12.48" N	92° 1' 8.71" E
Traditional Rest Place	25° 57' 13.58" N	92° 1' 12.00" E
Traditional Worshipping Place	25° 57' 14.08" N	92° 1' 15.70" E
Pond 1	25° 57' 15.14" N	92° 0' 51.29" E
Pond 2	25° 57' 14.46" N	92° 0' 45.47" E

iii. Natural Boundaries of Khlaw Kur Syiem KmieIng BHS

East - Private Land of Khongdeit and Syiemkhuning Clan

West - Private Land of Lit Ranshonand Malai Clan

North - Private Land of Swit Malai, paddy field of SmiManih, private land of Ring Khongdeit, Private Land of Smen Syiem and Bob Syiem

South – Private Land of Syiemkhuning and Khongdeit Clan

4. Management of the BHS

The Durbar of Kur Syiem Raid Nongtluh Biodiversity Management Committee (BMC) in whose jurisdiction the BHS is located shall be responsible for the management of the BHS under the guidance of Meghalaya Biodiversity Board. The BHS shall be managed in accordance with the guidelines for identification, notification and management of BHS, issued by the National Biodiversity Authority (NBA).

Sd/- (P. W. Ingty)

Additional Chief Secretary to the Govt. of Meghalaya,
Forests & Environment Department

Memo. NO.FOR. 53/2018/59 -A,

Dated: Shillong, the 13th December, 2018.

Copy forwarded to:-

1. The P.S. to the Hon'ble Chief Minister, Meghalaya, Shillong, for kind information of the Hon'ble Chief Minister.
2. The P.S. to the Minister, I/c. Forests & Environment Department, Meghalaya, Shillong, for kind information of the Minister.
3. The P.S. to the Chief Secretary to the Govt. of Meghalaya, for information of the Chief Secretary.
4. The P.S. to the Additional Chief Secretary to the Govt. of Meghalaya, I/c. Forests & Environment Department, Meghalaya, Shillong, for information of the Additional Chief Secretary.
5. The Deputy Commissioner, Ri-Bhoi District, Nongpoh.
6. The Principal Chief Conservator of Forests & HoFF, Meghalaya, Shillong.
7. The Chairman, Meghalaya Biodiversity Board, Shillong.
8. The Secretary, National Biodiversity Authority, 5th Floor, TICEL Bio Park, CSIR, Road, Taramani, Chennai, Tamil Nadu 600113.
9. The Divisional Forest Officer (SF), Ri-Bhoi District, Nongpoh cum District Nodal Officer (Biodiversity).
10. The Director of Printing & Stationery, Meghalaya, for favour of publication in the Gazette.
11. Office copy
12. Guard File.

By order etc.

Deputy Secretary to the Government of Meghalaya,
Forests & Environment Department

2. Meetings of the Board for the year 2017-2018:

Only one meeting was held during the year 2017-18 which is the 12th meeting of the Meghalaya Biodiversity Board (MBB) on the 22nd February, 2018 in the Officer Chamber of the Principal Secretary (Forests & Environment) Department, Additional Secretariat Building, Shillong. Smt. R.V. Suchiang, IAS, Principal Secretary to the Govt. of Meghalaya (Forests & Environment) chaired the meeting.

The following agenda points were discussed:

1. Confirmation of the minutes of the last meeting of MBB held on 29th March, 2017.
2. The Secretary of MBB briefed the Board regarding the implementation of the provisions of the Act.
3. The Board members deliberated over the Operation of MBB State Fund.
4. Discussion on the issue of release of final instalment to the Research Grantees sponsored by MBB.
5. Discussion on the inadequacies on the Draft of State Biodiversity Action Plan for 2015-2016 prepared by Wildlife Institute of India, Dehradun.
6. Other issues raised by the Board Members were put forward for discussion with the permission of the Chair.



3. International Biological Diversity Day Celebration:

The following are the details of the IBD celebration for the year 2018:

International Day for Biological Diversity, 2018

Theme: Biodiversity and Sustainable Tourism

Photographs of IBD Celebration in the other towns of Meghalaya:

Shillong (East Khasi Hills District):



East Jaintia Hills



East Garo Hills



South West Khasi Hills



Jowai



Photography Competition
Theme: Wild Animals



Winner: Khraw Shylla



Consolation Prize: Teibor Lyngdoh





Consolation: Gerald Samuel pinocchio Duia



Consolation: Khraw Shylla



Consolation: Khraw Shylla



Consolation: Ialamphang Lyngdoh



4. Below is the list of BMCs formed in the year 2017-18:

SL No.	NAME	BLOCK	DISTRICT	CHAIRMAN	DATE OF CONSTITUTION	REGISTRATION No.
1.	KYNTONSYRWA	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. C. CARMEL NONGKYNRH	02.04.2017	BMC/EKH/KYNTONSYRWA/211
2.	LEN MAWTAP A	SOHIONG	EAST KHASI HILLS	SHRI. KMEL NONGBRI	03.04.2017	BMC/EKH/LEN MAWTAP A/235
3.	WAPUNG SKUR	KHLIEHRIAT	EAST JAIN-TIA HILLS	SHRI SATLY RUNGKHEM	04.04.2017	BMC/EJH/WAPUNGSKUR/207
4.	MAWJRONG	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. LAMPHRANG DIENGDH	21.04.2017	BMC/EKH/MAWJRONG/227
5.	LAITSOHMA	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. BONIFAST MAWLONG	22.04.2017	BMC/EKH/LAITSOHMA/217
6.	MAWKDOK	12-SHNONG LAITKROH	EAST KHASI HILLS	SJRI. WANLAMBOR NONGRUM	22.04.2017	BMC/EKH/MAWKDOK/222
7.	SWER	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. SORDRON NONGRUM	24.04.2017	BMC/EKH/SWER/225
8.	MAWTHWAN B	SOHIONG	EAST KHASI HILLS	SHRI. SBOL MALNGIANG	24.04.2017	BMC/EKH/MAWTHWAN B/234
9.	WAHSHOHA	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. SILIUS RIAHTAM	25.04.2017	BMC/EKH/WAHSHOHA/236
10.	DIENGSONG	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. TEILANG DIENGDH	26.04.2017	BMC/EKH/DIENGSONG/218
11.	RIKYRSHANG	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. RAMDAR NONGRUM	26.04.2017	BMC/EKH/RIKYRSHANG/223
12.	BIRSIEK	UMSNING	RI-BHOI	SHRI. ALOS NONGPOH	26.04.2017	BMC/RB/BIRSIEK/250
13.	MADAN PHUTBOL	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. KRESWON RYNJAH	27.04.2017	BMC/EKH/MADANPHUTBOL/224
14.	LAIT-THEMLANGSAH	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. TAISING MYRTHONG	27.04.2017	BMC/EKH/LAIT-THEMLANGSAH/244
15.	SYNGRANG SHOHNOH	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. SKORSING MAWLONG	28.04.2017	BMC/EKH/SYNGRANG SHOHNOH/219
16.	MAWMIHTHIED	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. KHRAWBOK DKHAR	28.04.2017	BMC/EKH/MAWMIHTHIED/221
17.	UMROI MADAN	UMSNING	RI-BHOI	SHRI. ASHER MAKRI	28.04.2017	BMC/RB/UMROI MADAN/251
18.	MAWTNEN	UMSNING	RI-BHOI	SHRI. DOMINIC KHARTHANGMAW	28.04.2017	BMC/RB/MAWTNEN/252
19.	NONGTHYMAI LUMTHANGDING	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. TARCISIUS DKHAR	01.05.2017	BMC/EKH/NONGTHYMAI LUMTHANGDING/226
20.	SYNGKU	UMSNING	RI-BHOI	SHRI. BAHUNLANG SHADAP	01.05.2017	BMC/RB/SYNGKU/254
21.	INGSAW	UMSNING	RI-BHOI	SHRI. JEBEST SUPHAI	01.05.2017	BMC/RB/INGSAW/259



22.	TYRSO PDENG	UMSNING	RI-BHOI	SHRI. ESTANDING LAMARE	02.05.2017	BMC/RB/TYRSO PDENG/255
23.	TYRSO NONGKYLLEP	UMSNING	RI-BHOI	SHRI. SHANDRA MASYNTLING	02.05.2017	BMC/RB/TYRSO NONGKYLLEP/256
24.	LUMSOHPIENG	UMSNING	RI-BHOI	SHRI. SUNDA-MORN SHADAP	02.05.2017	BMC/RB/LUMSOHPIENG/257
25.	JUKIANG	UMSNING	RI-BHOI	SHRI. JANUARY LYRNAH	02.05.2017	BMC/RB/JUKIANG/258
26.	LIARKHLA	UMSNING	RI-BHOI	SHRI. STELIN RYNGKHANG	03.05.2017	BMC/RB/LIARKHLA/253
27.	DYMPEP	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. REBINGSTAR NONGRUM	06.05.2017	BMC/EKH/DYMPEP/263
28.	NONGTRAW	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. HORNO DOHLING	08.05.2017	BMC/EKH/NONGTRAW/237
29.	LAITMAW-SIANG	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. BALLISTAR KHONGRYMMAI	09.05.2017	BMC/EKH/LAITMAWSIANG/238
30.	NONGTHYMAI PDENG	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. MARIBOK KURKALANG	05.06.2017	BMC/EKH/NONGTHYMAI PDENG/245
31.	KEN MYNSAW	MAWSYN-RAM	EAST KHASI HILLS	SHRI. MATHEUS KYNTER	09.06.2017	BMC/EKH/KEN MYNSAW/264
32.	JALYNTENG	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. RARBESTAR NONGKYNRH	27.06.2017	BMC/EKH/JALYNTENG/261
33.	LAITMAWROH	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. TELLING BUHPHANG	15.07.2017	BMC/EKH/LAITMAWROH/260
34.	LAITMAWLONG WAHPEIN	12-SHNONG LAITKROH	EAST KHASI HILLS	SHRI. KHRAWBOR RYNJAH	15.07.2017	BMC/EKH/LAITMAWLONG WAHPEIN/262
35.	NAMDONG-A	THAD-LASKEIN	WEST JAIN-TIA HILLS	SHRI. DAWAN LYNGDOH	08.09.2017	BMC/WJH/NAMDONG-A/265
36.	NARTIANG	THAD-LASKEIN	WEST JAIN-TIA HILLS	SHRI RIMIO SYMBLAI	07.10.2017	BMC/WJH/NARTIANG/266
37.	KYNROH MAWPAT	MAWPHLANG	EAST KHASI HILLS	HINTAR KURBAH	28.10.2017	BMC/EKH/KYNROH MAWPAT/146
38.	MAWNGAP MAWSMAI	MAWPHLANG	EAST KHASI HILLS	DANISH STARWELL MARBANIAN	29.10.2017	BMC/EKH/MAWNGAP MAWSMAI/144
39.	KRANG NON-GLUM	MAWPHLANG	EAST KHASI HILLS	LEMBARKUT STEPWAR	29.10.2017	BMC/EKH/KRANG NONGLUM/145
40.	WAHLYNGKIEN RAMKLANG	MAWPHLANG	EAST KHASI HILLS	PHLASSING KHARHUNAI	02.11.2017	BMC/EKH/WAHLYNGKIEN RAMKLANG/147
41.	LAITNONGREM	MAWPHLANG	EAST KHASI HILLS	BROLIN SHABONG	02.11.2017	BMC/EKH/LAITNONGREM/148
42.	NONGRUM	MAWPHLANG	EAST KHASI HILLS	SHRI K. MARCHAND LYNGDOH	05.11.2017	BMC/EKH/NONGRUM/149
43.	MISSION	MAWPHLANG	EAST KHASI HILLS	WELFARE KHARHUJON	05.11.2017	BMC/EKH/MISSION/150
44.	PEPJYNRONG	MAWPHLANG	EAST KHASI HILLS	PLISKIT KURBAH	05.11.2017	BMC/EKH/PEPJYNRONG/151
45.	SHILLIANG KTIEH	MAWPHLANG	EAST KHASI HILLS	MESTRARNING MARBANIAN	05.11.2017	BMC/EKH/SHILLIANG KTIEH/152

46.	DIENGSHYN-RUM	KHLIEHRIAT	EAST JAIN-TIA HILLS	SHRI. PHUN LYN-GDOH	05.11.2017	BMC/EJH/DIENGSHYNRUM/239
47.	LAIIDIKER	MAWPHLANG	EAST KHASI HILLS	DILIKKOMAR RANI	06.11.2017	BMC/EKH/LAIIDIKER/153
48.	LAITSDAD	MAWPHLANG	EAST KHASI HILLS	SHROTSTALLING MARBANIANG	07.11.2017	BMC/EKH/LAITS-DAD/154
49.	WEILYNGKUT	MAWPHLANG	EAST KHASI HILLS	PHLIMSING JYRWA	07.11.2017	BMC/EKH/WEILYNGKUT/155
50.	DEMTHRING	MAWPHLANG	EAST KHASI HILLS	MERUT LAWRIN-IANG	08.11.2017	BMC/EKH/DEMTHRING/156
51.	MAWTAP PYLLUN	MAWPHLANG	EAST KHASI HILLS	ALONE WARJRI	08.11.2017	BMC/EKH/MAWTAP PYLLUN/157
52.	SOHPHOHPYRTON	MAWPHLANG	EAST KHASI HILLS	DMEN S MAW-LONG	11.11.2017	BMC/EKH/SOHPHOHPYRTON/158



5. Publications of the Board:

In the year 2017-18, the Board has published the following books and posters to create awareness regarding the biodiversity of Meghalaya:

1. Books:

Two translated versions of the Book entitled “The Biological Diversity Act-2002, Rules 2010” were published.



Khasi Language



Garo Language



Posters

WILD EDIBLE MUSHROOMS OF KHASI AND JAINTIA HILLS

Tit Thylleij Masi
Albatrellus sp.

Tit doh
Lactarius sp.

Tit Shatri / Tyngab
Laccaria sp.

Tit Khangai pylleng
Cantharellus cibarius

Tit dud
Lactarius volemus

Tit Lbong hati
Ramaria sp.

Tit sohpaileen
Russula virescens

Tit tyndong
Turbinellus floccosus (*Gomphus floccosus*)

Tit lieh
Termitomyces sp.

Tit Kjat sylar
Clavulina sp.

Tit tung
Lentinus edodes

MEGHALAYA BIODIVERSITY SERIES - 31

Department of Forests, Environment & Climate Change
Govt. of Meghalaya
Published by Meghalaya Biodiversity Board, Sylvan House, Lower Lachumiere, Shillong-793001.
(Photos and Information: Wildflower Photograph, Design: Phirodinika Papang)

Butterflies of Meghalaya

Jewett's Palefy
Elymnias vesudera

Commodore
Bassaris danava

Indian Purple Emperor
Apatura amica

Common Jester
Symbesia hippoclis

Jungle Glory
Taenidia diorea

Popinjay
Stibochiron ricei

Constable
Dichorhiza nestimbanes

Mixed Patch
Dedona awda

Courtesan
Eurypis nectus

Blue Parley
Luzoniopsis critiata

Common Magnet
Chersonesia ricei

Himalayan Five-ring
Ypthima sakra

White Patch
Dedona langricaudata

Tabby
Pseudergatis aedon

Grey Count
Tanaisia lepidus

Orange Patch
Dedona aeger

MEGHALAYA BIODIVERSITY SERIES - 41

Department of Forests, Environment & Climate Change
Govt. of Meghalaya
Published by Meghalaya Biodiversity Board, Sylvan House, Lower Lachumiere, Shillong-793001.
(Photos: Copyright: Ananta Bora, Design: Phirodinika Papang)

THREATENED MAMMALS OF MEGHALAYA

Otomops wrightoni

Macaca leonina

Macaca arctoides

Hoolock hoolock (Male)

Hoolock hoolock (Female)

Scientific name: *Hoolock hoolock* (Harter, 1834)
Common name: Western Hoolock Gibbon
Distribution in Meghalaya: Suitable habitat in Garo Hills Districts, West Khasi Hills, Jaintia Hills Districts and Ri-Bhoi District
Conservation status: Endangered

Scientific name: *Macaca leonina* (Bluth, 1863)
Common name: Northern pig-tailed Macaque
Distribution in Meghalaya: Suitable habitat in East Garo Hills District, Jaintia Hills Districts
Conservation status: Vulnerable

Scientific name: *Otomops wrightoni* (Thomas, 1913)
Common name: Wrighton's free-tailed Bat
Distribution in Meghalaya: Known only from a cave in East Khasi Hills district and three caves in East Jaintia Hills District
Conservation status: Earlier listed as Critically Endangered but now been listed under Data Deficient category
Remarks: Included under schedule I of Indian Wildlife Protection Act, 1972. Less than 100 known individuals in Meghalaya restricted to three caves. Therefore, urgent and stringent protection to the cave habitats is necessary for their conservation.

Scientific name: *Macaca arctoides* (J. Geoffroy, 1831)
Common name: Stump-tailed Macaque
Distribution in Meghalaya: Suitable habitat in Garo Hills Districts and Jaintia Hills Districts
Conservation status: Vulnerable

MEGHALAYA BIODIVERSITY SERIES - 32

Department of Forests, Environment & Climate Change
Govt. of Meghalaya
Published by Meghalaya Biodiversity Board, Sylvan House, Lower Lachumiere, Shillong-793001.
(Photos and Information: 231 North Eastern Regional Centre, Shillong, Design: Phirodinika Papang)

ODONATA OF RI-BHOI

Drury Scarlet Stammer
Crocethemis servilla (Muls)

River Holoder
Lidalgia inaeata (Fernald)

Crimson-tailed Marsh Hawk
Orthetrum prasinum (Muls)

Blue-Tailed Forest Hawk
Orthetrum triangulare (Muls)

Blue-tailed Yellow Stammer
Polyphlebia exornatula (Fernald)

Black Emperor
Rhinocypha quadrimaculata (Muls)

Crimson Marsh Glider
Tribemisia aurora (Muls)

Black Stream Glider
Tribemisia festiva (Muls)

MEGHALAYA BIODIVERSITY SERIES - 33

Department of Forests, Environment & Climate Change
Govt. of Meghalaya
Published by Meghalaya Biodiversity Board, Sylvan House, Lower Lachumiere, Shillong-793001.
(Photos & Copyright: Raju Bhattacharya, Design: Phirodinika Papang)

PTERIDOPHYTES OF KHASI HILLS



Scientific name: *Arthropteris wallichiana*
Family: Polypodiaceae



Scientific name: *Lycopodium scolopendrium*
Family: Polypodiaceae



Scientific name: *Selaginella ceylana*
Family: Polypodiaceae



Scientific name: *Dipteris pinnatum*
Family: Cheilanthesaceae



Scientific name: *Neochlopteryx evansii*
Family: Polypodiaceae



Scientific name: *Selaginella monopersa*
Family: Polypodiaceae



Scientific name: *Thelypteris outlimum*
Family: Thelypteridaceae



Scientific name: *Pterisandra cuspidata*
Family: Polypodiaceae

MEGHALAYA BIODIVERSITY SERIES - 31



Department of Forests, Environment & Science Change
Unit of Meghalaya
Published by Meghalaya Biodiversity Board, Sylhet House, Lower Lachumiere, Shillong-793001.



Photos & Content: Anupam & Syim, Design: Pradipkumar Phiangal

Sacred Groves of Meghalaya



Mairikiang



Seng



Jais



Laitum Niam

Sacred groves are tracts of virgin forests that have cultural or spiritual significance for the people who live around them. They have been protected by communities around the world for a variety of reasons, including religious practices, burial grounds, and water shed value. As a result of this the rich biodiversity of these forests are protected.

In Meghalaya sacred groves represent a long tradition of environmental conservation based on indigenous knowledge by the tribal communities. They are among the few least disturbed forest patches which are serving as the natural treasure house of biodiversity and a refuge for a large number of endemic, endangered and rare taxa. The general term for sacred groves in the Khasi Hills is 'Khlaw Kyniang' or 'Law Kyniang' or 'Law Lyngdoh' while in the Jaintia Hills it is called 'Khlou Bla'. The sacred groves in the Khasi Hills and Jaintia Hills District are fundamentally based on the traditional religious belief of the tribals i.e., Khasis and Pnars, which is called Seng Khasi and Niam Tre respectively. They believed that a forest deity called 'Ryangkew', 'Basi' or 'Labasi' in the local language, resides in these sacred groves which protects and provide for the well being of the village community. Cutting of trees, plucking of flowers, fruits, twigs are not allowed in these forests and it is believed that if done so, the deity would get offended and cause bad things. Various rites and rituals are performed periodically in these forests. Meghalaya has the maximum number of sacred groves in India. The Forest Department, Meghalaya has surveyed and mapped 125 sacred groves in the state recently. Many more are to be covered.

MEGHALAYA BIODIVERSITY SERIES - 20



Forest & Environment Department
Unit of Meghalaya
Published by Meghalaya Biodiversity Board, Sylhet House, Lower Lachumiere, Shillong-793001

Photos & Design: K. Khatun



BEETLES OF KHASI & JAINZIA HILLS



Chrysomelidae



Cerambycidae



Cicindelidae



Meloidae



Curculionidae



Cerambycidae



Carabidae



Scarabaeidae

MEGHALAYA BIODIVERSITY SERIES - 18



Published by Meghalaya Biodiversity Board, Sylhet House, Lower Lachumiere, Shillong - 793001



Photos & Information: Basu, Bhowmik & Nigam, Design: Pradipkumar Phiangal

2017-2018:

6. Awareness Campaigns: List of awareness programmes conducted throughout Meghalaya (2016-2017):

Date & Year	Place/Venue	Programme
16 th June, 2017	Mawphlang Block office	Awareness meeting on PBR with Prof. B.K.Tiwari team.
7 th July, 2017	Mawkohtep	Assisting the experts for PBR meeting at the village along with the members of the BMC
8 th July, 2017	JaniMawiong	Assisting the experts for PBR meeting at the village along with the members of the BMC
24 th July, 2017	Laitkroh Block	Awareness programme on BMC and PBR
15 th March, 2018	Laskein Block	Awareness programme on BMC and PBR
11 th April, 2018	Laskein Block	Awareness programme on BMC and PBR
14 th April, 2018	Balat	Awareness programme on BMC and PBR

Few Pictures from Awareness Campaigns.

Laskein



7. Research Projects undertaken and completed by the Board (2017-2018):

1. Sankhadipta Dey:

Survey and Documentation of Amphibians in Khasi Hills, Jaintia Hills and Ri-Bhoi District of Meghalaya: The objective of the study is to record and identify the different amphibian species found in the above mentioned areas. The study also documents the amphibian species which stay and visit the BMCs and the adjoining Sacred Groves in the above mentioned area.



Scientific Name: *Odorrana livida*



Scientific Name: *Limnonectes khasianus*

Survey and Documentation of Birds in Khasi Hills, Jaintia Hills and Ri-Bhoi District, in Meghalaya which stay and visit the BMCs and adjoining Sacred Groves falling therein: The objective of the study is to record and identify the different bird species found in the above mentioned areas. The study also documents the bird species which stay and visit the BMCs and the adjoining Sacred Groves in the above mentioned area.



Scientific Name: *Eumyias thalassinus*

Common Name: Verditer Flycatcher



Scientific Name: *Vanellus indicus*

Common Name: Red-wattled Lapwing



2. Baaijingkmen Nongkynrih

Survey and Documentation of Hydrophytes of Khasi and Jaintia Hills, Meghalaya: The objective of the study is to document the Hydrophytic plants found in Khasi and Jaintia Hills along with their economic and medicinal uses. It also provides information on the diversity and abundance of aquatic plants found in the area.



Scientific Name: *Monochoria vaginalis*



Scientific Name: *Nymphaea rubra*

4. Auphelia. B. Syiem

Documentation and Distribution of Rhododendrons and Insectivorous Plants of Meghalaya; and Hedychium species in Khasi and Jaintia Hills of Meghalaya: The objective of the study is to document on the identification, classification and distribution of Rhododendrons, insectivorous and Hedychium species of plants in Khasi and Jaintia Hills of Meghalaya.



Scientific Name: *Rhododendron arboreum*



Scientific Name: *Hedychium angustifolium*



3. Pyndaplin Lyngdoh

Survey and Documentation of Threatened Tree Species and Bryophytes of Khasi and Jaintia Hills: The objective of the study is to survey and document all the available bryophytes found in Khasi and Jaintia Hills. The study also provides information on these bryophytes and their importance to the ecosystem.



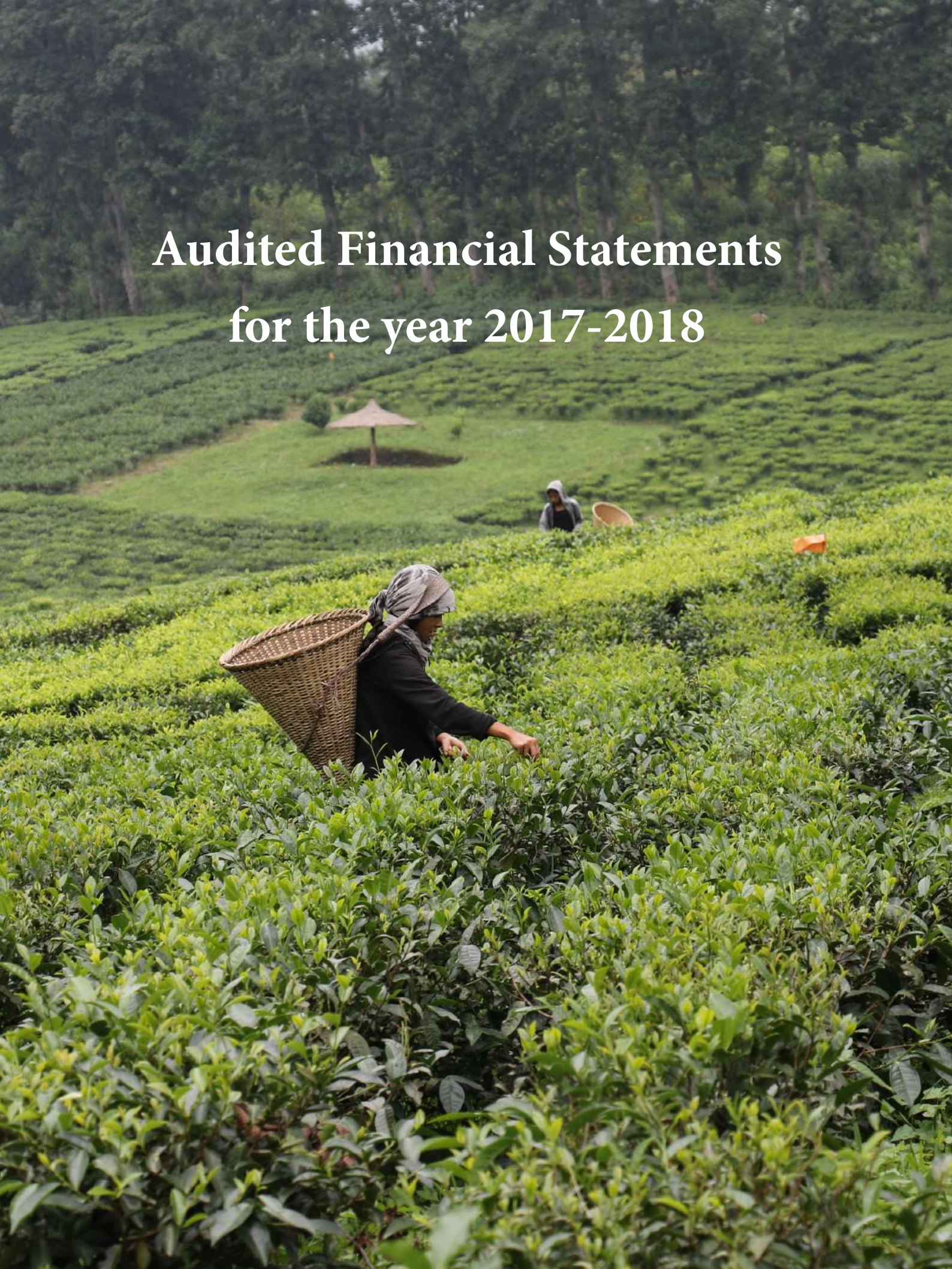
Scientific Name: *Gymnocladus assamica*



Scientific Name: *Anthoceros* sp.



Audited Financial Statements for the year 2017-2018





Kiron Joshi & Associates

Chartered Accountants

Regn. No. 313048 E

LDB Building : G. S. Road, Shillong - 793 001, Phone : 2223727, Fax : (0364) 2224647, Email : kironjoshiassociates@gmail.com

AUDITORS' REPORT

We have examined the annexed Balance Sheet as at 31.03.2018 and Income & Expenditure Account and Receipts and Payments Account for the year ended on that date of **MEGHALAYA BIODIVERSITY BOARD: SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG.**

These financial statements are the responsibility of the Board. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with the auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance whether the financial statements are free of material misstatement.

An audit includes examining on test basis, evidence supporting the amounts and disclosure in financial statement. An audit also includes assessing the accounting principles used and significant estimates read with the estimate related disclosures made in the notes on accounts by the centre as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We have obtained all the information we have required for those accounts which were placed before us. The said accounts are in agreement with the books and according to the explanations given to us and read with the annexed notes on accounts, said accounts give true and fair view in conformity with the accounting principles generally accepted in India of the state of affairs of the Board as on 31.3.2018 and of its Income & Expenditure for the year ended on that date.

Place: Shillong
Date: 18.03.2019



for KIRON JOSHI & ASSOCIATES
Chartered Accountants


KIRON JOSHI,
(Membership No.051046)

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

BALANCE SHEET AS AT 31.03.2018

LIABILITIES		ASSETS	
CAPITAL FUND:		FIXED ASSETS:	
Opening Balance:	1833357.86	As per Schedule 'A'	1115977.00
(+) Excess of Income over expenditure	<u>771795.00</u>		
	2605152.86		
GRANT FUND:		CURRENT ASSETS:	
Opening balance	19513130.00	Cash in Hand	-
(+) Received during the year from:		Cash at Bank :SB A/c with	
a) National Biodiversity Authority, Chennai	1450000.00	SBI A/c No. 32375460838	<u>23636198.86</u>
b) Government of Meghalaya	<u>4432000.00</u>		23636198.86
	25395130.00		
(-) Utilised during the year for revenue expenses as per Income & Expenditure Account:			
a) National Biodiversity Authority, Chennai	1920600.00		
b) Government of Meghalaya	<u>1327507.00</u>		
	22147023.00		
	<u>₹ 24752175.86</u>		<u>₹ 24752175.86</u>

Place : Shillong
Date : 18.03.2019

In terms of our audit report of even date
for KIRON JOSHI & ASSOCIATES
Chartered Accountants



Kiron Joshi
KIRON JOSHI
(Membership No. 051046)

[Signature]
Secretary
Meghalaya Biodiversity Board
Shillong



MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2018

EXPENDITURE	INCOME	
STATE PLAN EXPENSES:		
A) Salary Component:		Grant in Aid from:
Salary & Allowances	890206.00	a) Government of Meghalaya
		b) National Biodiversity Authority, Chennai
		1327507.00
		<u>1920600.00</u>
		3248107.00
B) Non Salary Component :		
1. Travelling Allowance	47440.00	
2. Office Expenses		
a) Stationery	21700.00	Bank Interest
b) Telephone	15734.00	Sale of books
c) Posters /Banners for Exhibitions and Seminar	10000.00	Old cheques written back
d) POL & Vehicle Maintenance	136658.00	
e) Consumables for Computers	26560.00	
f) Postal Stamps	<u>3843.00</u>	
	261935.00	
3. Other Charges :		
Contingent Expenditure	455.00	
4. Minor Works		
Publicity Materials	62624.00	
5. Major Works :		
Sponsoring investigation / research on components of Biodiversity in Meghalaya	25000.00	
6. Miscellaneous Expenditure	12110.00	
7. Celebrating International Day for Biological Diversity in the State	75177.00	
NBA EXPENSES:		
Salary of outsourced/contract personnel	737000.00	
Preparation of People's Biodiversity Register	831600.00	
Expenses on Translation of Material Printing & Dissemination	82000.00	
Financial assistance for Celebration of IBD released to DFO, Silviculture Division, East Khasi Hills	270000.00	
Depreciation	194385.00	
Excess of Income over Expenditure	771795.00	
	<u>₹ 4214287.00</u>	<u>₹ 4214287.00</u>

Place : Shillong
Date : 18.03.2019



In terms of our audit report of even date for KIRON JOSHI & ASSOCIATES Chartered Accountants

KIRON JOSHI
(Membership No. 051046)

Secretary
Meghalaya Biodiversity Board
Shillong

**MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG**

RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2018

RECEIPTS			PAYMENTS	
Opening Balances :			STATE PLAN EXPENSES:	
Cash in Hand	-		A) Salary Component:	
Cash at Bank :SB A/c with SBI A/c No. 32375460838	20036125.86	20036125.86	Salary & Allowances	890206.00
Grant in Aid from:			B) Non Salary Component :	
a) Government of Meghalaya	4432000.00		1. Travelling Allowance	47440.00
b) National Biodiversity Authority, Chennai	1450000.00	5882000.00	2. Office Expenses	
			a) Stationery	21700.00
			b) Telephone	15734.00
Bank Interest	901186.00		c) Posters /Banners for Exhibitions and Seminar	10000.00
Sale of books	54994.00		d) POL & Vehicle Maintenance	136658.00
Old cheques written back	10000.00		e) Consumables for Computers	26560.00
			f) Postal Stamps	3843.00
			3. Other Charges :	
			Contingent Expenditure	455.00
			4. Minor Works	
			Publicity Materials	62624.00
			5. Major Works :	
			Sponsoring investigation / research on components of Biodiversity in Meghalaya	25000.00
			6. Miscellaneous Expenditure	12110.00
			7. Celebrating International Day for Biological Diversity in the State	75177.00
			NBA EXPENSES:	
			Salary of outsourced/contract personnel	737000.00
			Preparation of People's Biodiversity Register	831600.00
			Expenses on Translation of Material Printing & Dissemination	82000.00
			Financial assistance for Celebration of IBD released to DFO, Silviculture Division, East Khasi Hills	270000.00
			Closing Balances :	
			Cash in Hand	-
			Cash at Bank :SB A/c with SBI A/c No. 32375460838	23636198.86
				23636198.86
				₹ 26884305.86
				₹ 26884305.86

Place : Shillong
Date : 18.03.2019



In terms of our audit report of even date
for KIRON JOSHI & ASSOCIATES
Chartered Accountants

KIRON JOSHI
(Membership No. 051046)

(Signature)
Secretary
Meghalaya Biodiversity Board
Shillong

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

SCHEDULE FORMING PART OF BALANCE SHEET AS AT 31.03.2018

SI No	PARTICULARS	OPENING BALANCE	GROSS BLOCK		DELETION	AS ON 31.03.2018	RATE	DEPRECIATION			NET BLOCK AS ON 31.03.2018
			BEFORE 30.09.2017	AFTER 30.09.2017				OPENING BALANCE	FOR THE YEAR	TOTAL	
1	Furniture & Fixtures	432532.00	-	-	-	432532.00	10%	99833.00	33270.00	133103.00	299429.00
2	Computer & Peripherals	323810.00	-	-	-	323810.00	40%	280544.00	17306.00	297850.00	25960.00
3	Office Equipments	591395.00	-	-	-	591395.00	15%	190198.00	60179.00	250377.00	341018.00
4	Books	132456.00	-	-	-	132456.00	20%	59460.00	14599.00	74059.00	58397.00
5	Vehicle	688605.00	-	-	-	688605.00	15%	228401.00	69031.00	297432.00	391173.00
	TOTAL	2168798.00	-	-	-	2168798.00		858436.00	194365.00	1052821.00	1115977.00



Secretary
Meghalaya Biodiversity Board
Shillong

[Handwritten Signature]

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS FOR THE YEAR
ENDED 31.03.2018

1. The financial statements have been prepared on the basis of historical cost convention and on the cash method of accounting.
2. Accounting policies not specifically referred to otherwise are consistent and in consonance with generally accepted accounting principles.
3. Grant received to the extent utilised for revenue expenditure during the year have been recognised as income in the Income and Expenditure Account. The unutilised balance is shown as liability under Grant Fund in the Balance Sheet.
4. a) Fixed Assets have been stated at cost with addition during the year, depreciation charged till 31.03.2017 and depreciation for the year as per details given in Schedule 'A'.

b) Depreciation on Fixed Assets have been charged as per WDV method and as per the rates and manner prescribed under the Income Tax Rules.
- 5 Retirement benefits to employees have not been provided for. It will be charged to revenue as and when paid.




Secretary
Meghalaya Biodiversity Board
Shillong



MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

BANK RECONCILIATION STATEMENT FOR THE YEAR ENDED 31.03.2018

Bank balance as per Pass Book ₹ 23851588.86

(-) Cheque issued but not presented for payment till 31.03.2018 :

<u>Date</u>	<u>Cheque No.</u>	<u>Amount</u>	
31.03.2018	118137	82000.00	
29.03.2018	118131	5256.00	
29.03.2018	118132	25000.00	
29.03.2018	118133	15000.00	
31.03.2018	118135	32414.00	
31.03.2018	118136	30720.00	
29.03.2018	118134	<u>25000.00</u>	215390.00

Bank balance as per Cash book ₹ 23636198.86




Secretary
Meghalaya Biodiversity Board
Shillong



Kiron Joshi & Associates

Chartered Accountants

Regn. No. 313048 E

LDB Building : G. S. Road, Shillong - 793 001, Phone : 2223727, Fax : (0364) 2224647, Email : kironjoshiassociates@gmail.com

AUDITORS' REPORT

We have examined the annexed Balance Sheet as at 31.03.2018 and Income & Expenditure Account and Receipts and Payments Account for the year ended on that date of **MEGHALAYA BIODIVERSITY BOARD: SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG.**

These financial statements are the responsibility of the Board. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with the auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance whether the financial statements are free of material misstatement.

An audit includes examining on test basis, evidence supporting the amounts and disclosure in financial statement. An audit also includes assessing the accounting principles used and significant estimates read with the estimate related disclosures made in the notes on accounts by the centre as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We have obtained all the information we have required for those accounts which were placed before us. The said accounts are in agreement with the books and according to the explanations given to us and read with the annexed notes on accounts, said accounts give true and fair view in conformity with the accounting principles generally accepted in India of the state of affairs of the Board as on 31.3.2018 and of its Income & Expenditure for the year ended on that date.

Place Shillong
Date: 18.03.2019



for KIRON JOSHI & ASSOCIATES
Chartered Accountants


KIRON JOSHI.
(Membership No.051046)

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

BALANCE SHEET AS AT 31.03.2018

<u>LIABILITIES</u>		<u>ASSETS</u>	
<u>CAPITAL FUND:</u>		<u>FIXED ASSETS:</u>	
Opening Balance:	1833357.86	As per Schedule 'A'	1115977.00
(+) Excess of Income over expenditure	<u>771795.00</u>		
	2605152.86		
<u>GRANT FUND:</u>		<u>CURRENT ASSETS:</u>	
Opening balance	19513130.00	Cash in Hand	-
(+) Received during the year from:		Cash at Bank :SB A/c with	
a) National Biodiversity Authority, Chennai	1450000.00	SBI A/c No. 32375460838	<u>23636198.86</u>
b) Government of Meghalaya	<u>4432000.00</u>		23636198.86
	25395130.00		
(-) Utilised during the year for revenue expenses as per Income & Expenditure Account:			
a) National Biodiversity Authority, Chennai	1920600.00		
b) Government of Meghalaya	<u>1327507.00</u>		
	22147023.00		
	<u>₹ 24752175.86</u>		<u>₹ 24752175.86</u>

Place : Shillong
Date : 18.03.2019



In terms of our audit report of even date
for KIRON JOSHI & ASSOCIATES
Chartered Accountants

KIRON JOSHI
(Membership No. 051046)

Kiron Joshi
Secretary
Meghalaya Biodiversity Board
Shillong

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2018

EXPENDITURE		INCOME	
STATE PLAN EXPENSES:		Grant in Aid from:	
A) Salary Component:		a) Government of Meghalaya	1327507.00
Salary & Allowances	890206.00	b) National Biodiversity Authority, Chennai	<u>1920600.00</u>
			3248107.00
B) Non Salary Component :			
1. Travelling Allowance	47440.00		
2. Office Expenses			
a) Stationery	21700.00	Bank Interest	901186.00
b) Telephone	15734.00	Sale of books	54994.00
c) Posters /Banners for Exhibitions and Seminar	10000.00	Old cheques written back	10000.00
d) POL & Vehicle Maintenance	136658.00		
e) Consumables for Computers	26560.00		
f) Postal Stamps	<u>3843.00</u>		
	261935.00		
3. Other Charges :			
Contingent Expenditure	455.00		
4. Minor Works			
Publicity Materials	62624.00		
5. Major Works :			
Sponsoring investigation / research on components of Biodiversity in Meghalaya	25000.00		
6. Miscellaneous Expenditure	12110.00		
7. Celebrating International Day for Biological Diversity in the State	75177.00		
NBA EXPENSES:			
Salary of outsourced/contract personnel	737000.00		
Preparation of People's Biodiversity Register	831600.00		
Expenses on Translation of Material			
Printing & Dissemination	82000.00		
Financial assistance for Celebration of IBD released to DFO, Silviculture Division, East Khasi Hills	270000.00		
Depreciation	194385.00		
Excess of Income over Expenditure	771795.00		
	<u>₹ 4214287.00</u>		<u>₹ 4214287.00</u>

Place : Shillong
Date : 18.03.2019



In terms of our audit report of even date for KIRON JOSHI & ASSOCIATES Chartered Accountants

(Signature)
KIRON JOSHI
(Membership No. 051046)

(Signature)
Secretary
Meghalaya Biodiversity Board
Shillong



MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED 31.03.2018

RECEIPTS		PAYMENTS	
Opening Balances :		STATE PLAN EXPENSES:	
Cash in Hand	-	A) Salary Component:	
Cash at Bank :SB A/c with SBI A/c No. 32375460838	<u>20036125.86</u>	Salary & Allowances	890206.00
	20036125.86	B) Non Salary Component :	
Grant in Aid from:		1. Travelling Allowance	47440.00
a) Government of Meghalaya	4432000.00	2. Office Expenses	
b) National Biodiversity Authority, Chennai	<u>1450000.00</u>	a) Stationery	21700.00
	5882000.00	b) Telephone	15734.00
Bank Interest	901186.00	c) Posters /Banners for Exhibitions and Seminar	10000.00
Sale of books	54994.00	d) POL & Vehicle Maintenance	136658.00
Old cheques written back	10000.00	e) Consumables for Computers	26560.00
		f) Postal Stamps	<u>3843.00</u>
		3. Other Charges :	261935.00
		Contingent Expenditure	455.00
		4. Minor Works	
		Publicity Materials	62624.00
		5. Major Works :	
		Sponsoring investigation / research on components of Biodiversity in Meghalaya	25000.00
		6. Miscellaneous Expenditure	12110.00
		7. Celebrating International Day for Biological Diversity in the State	75177.00
		NBA EXPENSES:	
		Salary of outsourced/contract personnel	737000.00
		Preparation of People's Biodiversity Register	831600.00
		Expenses on Translation of Material Printing & Dissemination	82000.00
		Financial assistance for Celebration of IBD released to DFO, Silviculture Division, East Khasi Hills	270000.00
		Closing Balances :	
		Cash in Hand	-
		Cash at Bank :SB A/c with SBI A/c No. 32375460838	<u>23636198.86</u>
			23636198.86
	<u>₹ 26884305.86</u>		<u>₹ 26884305.86</u>

Place : Shillong
Date : 18.03.2019

In terms of our audit report of even date for KIRON JOSHI & ASSOCIATES Chartered Accountants



KIRON JOSHI
(Membership No. 051046)

(Signature)
Secretary
Meghalaya Biodiversity Board
Shillong

MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS FOR THE YEAR
ENDED 31.03.2018

1. The financial statements have been prepared on the basis of historical cost convention and on the cash method of accounting.
2. Accounting policies not specifically referred to otherwise are consistent and in consonance with generally accepted accounting principles.
3. Grant received to the extent utilised for revenue expenditure during the year have been recognised as income in the Income and Expenditure Account. The unutilised balance is shown as liability under Grant Fund in the Balance Sheet.
4. a) Fixed Assets have been stated at cost with addition during the year, depreciation charged till 31.03.2017 and depreciation for the year as per details given in Schedule 'A'.

b) Depreciation on Fixed Assets have been charged as per WDV method and as per the rates and manner prescribed under the Income Tax Rules.
- 5 Retirement benefits to employees have not been provided for. It will be charged to revenue as and when paid.




Secretary
Meghalaya Biodiversity Board
Shillong



MEGHALAYA BIODIVERSITY BOARD
SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG

BANK RECONCILIATION STATEMENT FOR THE YEAR ENDED 31.03.2018

Bank balance as per Pass Book			₹	23851588.86
(-) Cheque issued but not presented for payment till 31.03.2018 :				
	<u>Date</u>	<u>Cheque No.</u>	<u>Amount</u>	
	31.03.2018	118137	82000.00	
	29.03.2018	118131	5256.00	
	29.03.2018	118132	25000.00	
	29.03.2018	118133	15000.00	
	31.03.2018	118135	32414.00	
	31.03.2018	118136	30720.00	
	29.03.2018	118134	25000.00	
				215390.00
Bank balance as per Cash book			₹	<u>23636198.86</u>



Nitron Joshi
Secretary
Meghalaya Biodiversity Board
Shillong



Kiron Joshi & Associates

Chartered Accountants

Regn. No. 313048 E

LDB Building : G. S. Road, Shillong - 793 001, Phone : 2223727, Fax : (0364) 2224647, Email : kironjoshiassociates@gmail.com

AUDITORS' REPORT

We have examined the annexed Balance Sheet as at 31.03.2017 and Income & Expenditure Account and Receipts and Payments Account for the year ended on that date of **MEGHALAYA BIODIVERSITY BOARD: SYLVAN HOUSE : LOWER LACHUMIERE : SHILLONG.**

These financial statements are the responsibility of the Board. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with the auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance whether the financial statements are free of material misstatement.

An audit includes examining on test basis, evidence supporting the amounts and disclosure in financial statement. An audit also includes assessing the accounting principles used and significant estimates read with the estimate related disclosures made in the notes on accounts by the centre as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

We have obtained all the information we have required for those accounts which were placed before us. The said accounts are in agreement with the books and according to the explanations given to us and read with the annexed notes on accounts, said accounts give true and fair view in conformity with the accounting principles generally accepted in India of the state of affairs of the Board as on 31.3.2017 and of its Income & Expenditure for the year ended on that date.

for KIRON JOSHI & ASSOCIATES

Chartered Accountants.



KIRON JOSHI

(Membership No.051046)

Place: Shillong

Date: 18.03.2019

