

# 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 13<sup>th</sup> 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.

Sl 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, Mawkyrat	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 7<sup>th</sup> National convention and training program held from 19<sup>th</sup> to 21<sup>st</sup> 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	Mawjriong-Mawkdok
2.	Mawkdok	Mawjriong-Mawkdok
3.	Mawjriong	Mawjriong-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	Mawjriong-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



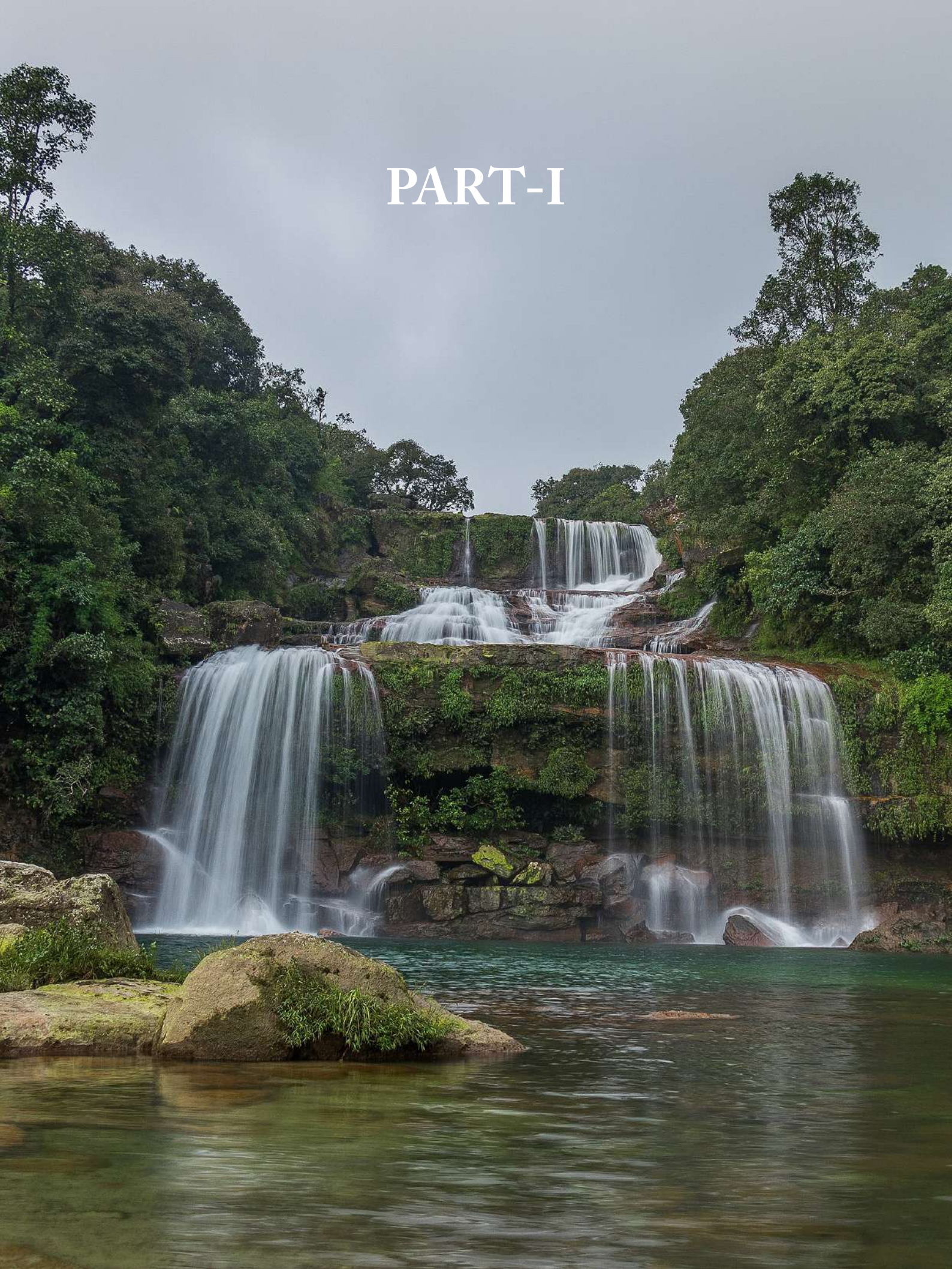
Table: 6 List of PBRs under preparation in Umsning Block (Documented by ENDEV).

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 20<sup>th</sup> 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 8<sup>th</sup> meeting of the Board was held on the 27<sup>th</sup> 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 1<sup>st</sup> 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

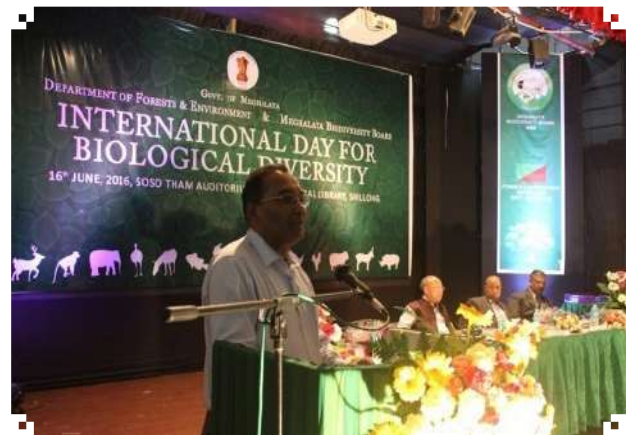
Since the Board's inception, every year on 22<sup>nd</sup> of May 'International Day for Biological Diversity' is celebrated by the members and staff of the Board throughout Meghalaya and the main event is celebrated at U Soso Tham Auditorium, State Central Library, Shillong. Each year the theme of the 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):







GOVT. OF MEGHALAYA  
DEPARTMENT OF FORESTS & ENVIRONMENT & MEGHALAYA BIODIVERSITY BOARD  
**INTERNATIONAL DAY FOR BIOLOGICAL DIVERSITY**  
16<sup>th</sup> JUNE, 2016, SOSO THAM AUDITORIUM, STATE CENTRAL LIBRARY, SHILLONG

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

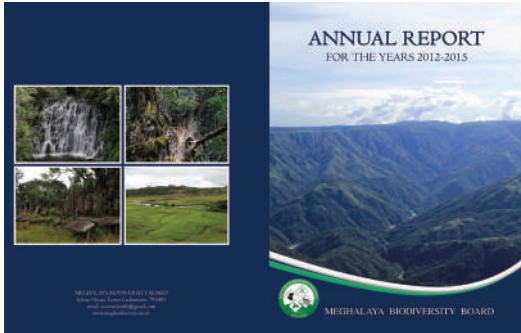




## 4. Publications by the Board (2015-2016)

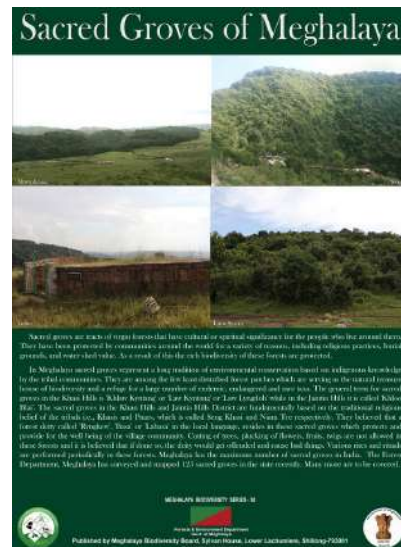
In the year 2015-16, the Board has published the following books and posters to generate awareness regarding the biodiversity of Meghalaya:

### 1. Books:



Annual Report for the year 2012-2015

### Posters



## 5. Activities of the Board (2015-16)

### Meghalaya Biodiversity Board Research Grants:

On 22<sup>nd</sup> 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:**

<b>Date &amp; Year</b>	<b>Place</b>	<b>Amount</b>
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 <sup>th</sup> November, 2015	District Library Auditoriam at Jowai	Awareness Programme on BMC and PBR
16 <sup>th</sup> February, 2016	Bishop Hall, Nongstoin	Awareness Programme on BMC and PBR
24 <sup>th</sup> February, 2016	Khliehriat, West Jaintia Hills	Awareness Programme on BMC and PBR
29 <sup>th</sup> 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	
<b>CAPITAL FUND:</b>		<b>FIXED ASSETS:</b>	
Opening Balance:	126439.00	As per Schedule 'A'	1544579.00
(+) Excess of Income over Expenditure	<u>791709.86</u>		
	918148.86		
<b>GRANT FUND:</b>		<b>CURRENT ASSETS:</b>	
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>
b) Government of Meghalaya	<u>4540000.00</u>		22904947.86
	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)

*Josny*  
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	
<b>STATE PLAN EXPENSES:</b>		
A) Salary Component:	Grant in Aid from:	
Salary & Allowances	506300.00	a) Government of Meghalaya 6598048.00
		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
<b>NBA EXPENSES :</b>		
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

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 :		<b>STATE PLAN EXPENSES:</b>	
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
		<b>NBA EXPENSES :</b>		
		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				FOR THE YEAR	OPENING BALANCE		
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
	<b>TOTAL</b>	<b>1291735.00</b>	<b>603491.00</b>	<b>271718.00</b>	<b>-</b>	<b>2166944.00</b>		<b>347128.00</b>	<b>275237.00</b>	<b>622365.00</b>	<b>1544579.00</b>



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:			
a) National Biodiversity Authority, Chennai	1466000.00		
b) Government of Meghalaya	<u>6598048.00</u>		
	23531378.00		
	<u>₹ 24449526.86</u>		
		<u>CURRENT ASSETS:</u>	
		Cash in Hand	
		Cash at Bank : SB A/c with SBI A/c No. 32375460838	<u>22904947.86</u>
			22904947.86
			<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



*(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 31.03.2016

EXPENDITURE		INCOME	
<b>STATE PLAN EXPENSES:</b>		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
<b>NBA EXPENSES :</b>			
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

Contd ...P/2



*[Signature]*  
Secretary  
Meghalaya Biodiversity Board  
Shillong



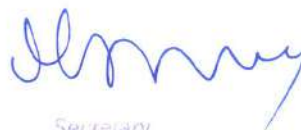
Balance B/F ₹	7564048.00	Balance B/F ₹	9130994.86
Financial assistance for Celebration of IBD released to :			
a) DFO, Silviculture Division, East Khasi Hills	170000.00		
b) DFO, East Khasi Hills Wild Life Division	30000.00		
c) DFO, West Khasi Hills Social Forestry Division	30000.00		
d) DFO, East Khasi 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		
	<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 :		<b>STATE PLAN EXPENSES:</b>	
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>

Contd.... P/2



*(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>	
		<b><u>NBA EXPENSES :</u></b>		
		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 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>	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

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
	<b>TOTAL</b>	<b>1291735.00</b>	<b>603491.00</b>	<b>271718.00</b>	<b>-</b>	<b>2166944.00</b>		<b>275237.00</b>	<b>347128.00</b>	<b>622365.00</b>	<b>1544579.00</b>



*[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 9<sup>th</sup> meeting of the Meghalaya Biodiversity Board (MBB) was held on the 28<sup>th</sup> 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 27<sup>th</sup> 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 10<sup>th</sup> meeting of the Meghalaya Biodiversity Board (MBB) was held on the 19<sup>th</sup> 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 28<sup>th</sup> 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 11<sup>th</sup> meeting of the Meghalaya Biodiversity Board (MBB) was held on the 29<sup>th</sup> 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 19<sup>th</sup> 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:

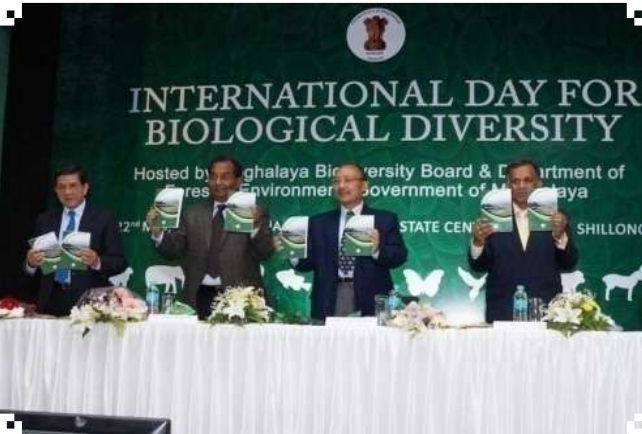
The following are the details of the IBD celebration for the year 2017:

**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
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6.	DIWIAN RANG-BLANG	MAWKYRWAT	SOUTH WEST KHA-SI HILLS	SHRI EDILBERT IAWPHNIAW	11.04.2016	BMC/SWKH/DIWIAN RANGBLANG/108
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8.	DKHIAH EAST	KHLIEHRIAT	EAST JAIN-TIA HILLS	SHRI EMLANG NONGTUDU	21.04.2016	BMC/EJH/DKHIAH EAST/130
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15.	SONIDAN	UMSNING	RI BHOI	SHRI WONDERFUL KHYMDEIT	22.07.2016	BMC/RB/SONIDAN/119
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17.	MAWHATI	UMSNING	RI BHOI	SHRI SHANLANG DIENGDH	24.07.2016	BMC/RB/MAWHATI/118
18.	MAWSER	UMSNING	RI BHOI	SHRI SHN-GAINLANG KHONGJI	25.07.2016	BMC/RBD/MAWSER/190
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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
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29.	MYNTKUNG	LASKEIN	WEST JAIN- TIA HILLS	SHRI. RIHOKMI LAW	24.09.2016	BMC/WJH/MYNT- KUNG/247
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31.	UMNONGKREM	UMSNING	RI BHOI	SHRI O.S MARN- GAR	14.10.2016	BMC/RBD/UM- NONGKREM/192
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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
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43.	LAITMAWROH & RAMKHENG	12-SHNONG LAITKROH	EAST KHA- SI HILLS	SHRI. TELLING BUHPHANG	30.11.2016	BMC/EKH/LAITMAW- ROH & RAMKHEN/216
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47.	DEWLIH	LAITKROH	EAST KHA- SI HILLS	SHRI SHAI PHAR DOHLING	01.12.2016	BMC/EKH/ DEWLIH/189



48.	LAITMAWHING	MAWPHLANG	EAST KHASI HILLS	SHRI ARBAN RANI	02.12.2016	BMC/EKH/LAITMAWHING/177
49.	LYNGDOH PHANBLANG	MAWPHLANG	EAST KHASI HILLS	SHRI SRIM NONGBET	02.12.2016	BMC/EKH/LYNGDOH PHANBLANG/181
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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53.	NONGBSAP	MAWPHLANG	EAST KHASI HILLS	SHRI PYNHUNLANG KURBAH	03.12.2016	BMC/EKH/NONGBSAP/176
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64.	UMJAPHOT	UMSNING	RI-BHOI	SHRI DRET KHARKRANG	14.01.2017	BMC/RBD/UMJAPHOT/187
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70.	LUM MYNTRI	UMSNING	RI BHOI	SHRI ELIS MYNS-ING	08.02.2017	BMC/RBD/LUM MYN-RI/193
71.	PYNTHORSALE	KHLIEHRIAT	EAST JAIN-TIA HILLS	SHRI SMAIN-BHALANG PHAWA	10.02.2017	BMC/EJH/PYNTHOR-SALE/205
72.	KYNJOIN UM-RAN	UMSNING	RI BHOI	SHRI RESWEL SUTING	11.02.2017	BMC/RBD/KYNJOI-NUMRAN/194
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77.	NONGMAWLONG	UMSNING	RI-BHOI	SHRI. EKOLES WAHLANG	22.02.2017	BMC/RB/NONGMAW-LONG/248
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79.	UMSAW	SOHIONG	EAST KHA-SI HILLS	SHRI. KRALLING KHARTHANGMAW	05.03.2017	BMC/EKH/UM-SAW/228
80.	IMTRA APAL	RONGJENG	EAST GARO HILLS	SHRI SABIUSH MARAK	07.03.2017	BMC/EGH/IMTRA APAL/203
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82.	RONGBING BOL-DAK	SAMANDA	EAST GARO HILLS	SHRI. RONELSON R. MARAK	09.03.2017	BMC/EGH/RONGBING BOLDAK/241
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85.	CHUTMANG GONGGOROT	RONGARA	SOUTH GARO HILLS	SHRI. LEBITH K. SANGMA	11.03.2017	BMC/SGH/CHUT-MANG GONGGOROT/210
86.	DOMSNOIN	SOHIONG	EAST KHA-SI HILLS	SHRI. KITBOR KHARJANA	16.03.2017	BMC/EKH/ DOMSNOIN/229
87.	LUMKYNTUNG	12-SHNONG LAITKROH	EAST KHA-SI HILLS	SHRI. LIBARSON NONGBRI	18.03.2017	BMC/EKH/LUMKYN-TUNG/220
88.	UMSAW DOMBHOI	SOHIONG	EAST KHA-SI HILLS	SHRI. PHAINBOR NONGRANG	18.03.2017	BMC/EKH/UMSAW DOMBHOI/230
89.	LEN MAWTAP	SOHIONG	EAST KHA-SI HILLS	SHRI. MODICALD DIENGDH	18.03.2017	BMC/EKH/LEN MAW-TAP/231
90.	MARPNA	MAWPHLANG	EAST KHA-SI HILLS	SHRI. F. L. MAW-LONG	22.03.2017	BMC/EKH/MARP-NA/232
91.	MANAI	MAWPHLANG	EAST KHA-SI HILLS	SHRI. BISTAR KHARPHULI	27.03.2017	BMC/EKH/MANAI/233
92.	MADANRTIANG	UMSNING	RI-BHOI	SHRI. MORJINESS DKHAR	27.03.2017	BMC/RB/MADANR-TIANG/249

## 4. Publications by the Board (2016-17)

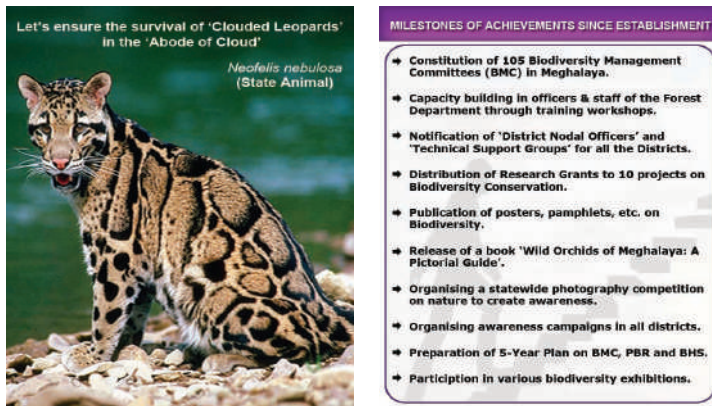
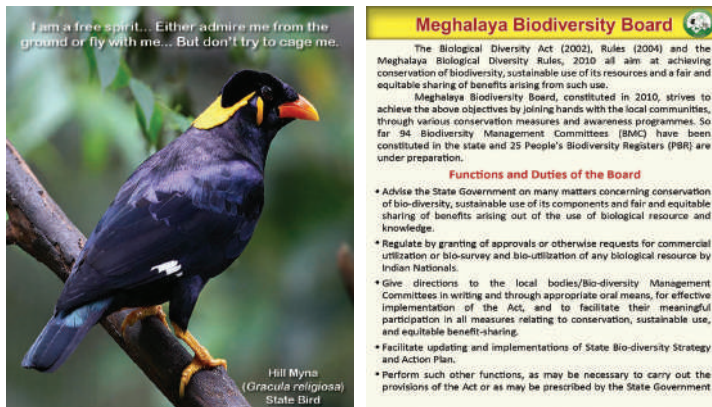
In the year 2016-17, the Board has published the following books, brochures and posters to generate awareness regarding the biodiversity of Meghalaya:

### Books:



### Checklist of Flora of Meghalaya

### Brochures:










## Stickers



## Bookmarks









 <p><b>Formation of BMC</b></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><b>Office of the BMC</b></p> <p>The BMC will function from the office premises to be provided by the local body.</p> <p><b>Tenure of the BMC</b></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><b>The Biological Diversity Act</b></p> <p><i>Enacted in 2002 and Rules notified in 2004</i></p> <p><b>Objectives:</b></p> <ul style="list-style-type: none"> <li>Conservation of Biological Diversity.</li> <li>Sustainable use of its components.</li> <li>Equitable sharing of the benefits arising out of the use of biological resources, knowledge and for matters connected therewith or incidental thereto.</li> </ul>
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# Posters:

## TRADITIONALLY USED SEEDS OF GARO HILLS

			
<b>Phaseolus vulgaris</b>	<b>Phaseolus vulgaris</b>	<b>Cucurbita pepo</b>	<b>Luffa aegyptiaca</b>
<b>Scientific name:</b> <i>Phaseolus vulgaris</i> <b>Common name:</b> Black beans <b>Local name:</b> Kark (Garo) <b>Description:</b> Plant is a pole type and grow approximately 2.3m tall. After reaching its maturity they generally produced all of their fruit in relatively short period of time and then ceased to produce. <b>Traditional uses:</b> It is used as a vegetable either boiled or fried and mixed with dry fish.	<b>Scientific name:</b> <i>Phaseolus vulgaris</i> <b>Common name:</b> French beans <b>Local name:</b> Bam (Garo) <b>Description:</b> Plant is a pole type and grow approximately 2.3m tall. After reaching its maturity they generally produced all of their fruit in relatively short period of time and then ceased to produce. <b>Traditional uses:</b> It is used as a vegetable either boiled or fried.	<b>Scientific name:</b> <i>Cucurbita pepo</i> <b>Common name:</b> Pumpkin <b>Local name:</b> Akkaru mangpi (Garo) <b>Description:</b> Pumpkins are short lived and has five-lobed leaves with long petioles. The leaves alternately arranged all of their fruit in relatively short period of time and then ceased to produce. <b>Traditional uses:</b> It is used in making chutneys by boiling the seeds. It is also used as snacks after frying.	<b>Scientific name:</b> <i>Hibiscus cannabinus</i> <b>Common name:</b> Moring <b>Local name:</b> Doro (Garo) <b>Description:</b> 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. <b>Traditional uses:</b> It is used as a vegetable.
			
<b>Zea mays</b>	<b>Abelmoschus esculentus</b>	<b>Solanum anguivi</b>	<b>Hibiscus cannabinus</b>
<b>Scientific name:</b> <i>Phaseolus vulgaris</i> <b>Common name:</b> Black beans <b>Local name:</b> Kark (Garo) <b>Description:</b> Plant is a pole type and grow approximately 2.3m tall. After reaching its maturity they generally produced all of their fruit in relatively short period of time and then ceased to produce. <b>Traditional uses:</b> It is used as a vegetable either boiled or fried and mixed with dry fish.	<b>Scientific name:</b> <i>Phaseolus vulgaris</i> <b>Common name:</b> French beans <b>Local name:</b> Bam (Garo) <b>Description:</b> Plant is a pole type and grow approximately 2.3m tall. After reaching its maturity they generally produced all of their fruit in relatively short period of time and then ceased to produce. <b>Traditional uses:</b> It is used as a vegetable either boiled or fried.	<b>Scientific name:</b> <i>Cucurbita pepo</i> <b>Common name:</b> Pumpkin <b>Local name:</b> Akkaru mangpi (Garo) <b>Description:</b> Pumpkins are short lived and has five-lobed leaves with long petioles. The leaves alternately arranged all of their fruit in relatively short period of time and then ceased to produce. <b>Traditional uses:</b> It is used in making chutneys by boiling the seeds. It is also used as snacks after frying.	<b>Scientific name:</b> <i>Hibiscus cannabinus</i> <b>Common name:</b> Moring <b>Local name:</b> Doro (Garo) <b>Description:</b> 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. <b>Traditional uses:</b> It is used as a vegetable.
<b>Scientific name:</b> <i>Luffa aegyptiaca</i> <b>Common name:</b> Sponge gourd <b>Local name:</b> Sait (Garo) <b>Description:</b> Sponge gourd is about 30cm long fruit. It has striking yellow flowers. <b>Traditional uses:</b> The young fruit is eaten as a vegetable and the fully ripened fruit is strongly fibrous and inedible, and is used to make scrubbing both sponges.	<b>Scientific name:</b> <i>Zea mays</i> <b>Common name:</b> Mize <b>Local name:</b> Nwaku (Garo) <b>Description:</b> 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. <b>Traditional uses:</b> It is cooked an eaten as a snack and also dried and cooked as a cake.	<b>Scientific name:</b> <i>Abelmoschus esculentus</i> <b>Common name:</b> Ladyfinger <b>Local name:</b> Doro (Garo) <b>Description:</b> 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. <b>Traditional uses:</b> It is used as a vegetable.	<b>Scientific name:</b> <i>Hibiscus cannabinus</i> <b>Common name:</b> Moring <b>Local name:</b> Doro (Garo) <b>Description:</b> 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. <b>Traditional uses:</b> It is used as a vegetable.

**MEGHALAYA BIODIVERSITY SERIES - 26**

Department of Forests, Environment & Climate Change  
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## Tradable Bio-resources of Khasi and Jaintia Hills

	<b>Gerbera sp.</b>		<b>Thysanotus maximus</b>
<b>Scientific name:</b> <i>Gerbera</i> sp. <b>Family:</b> Asteraceae <b>Common/Local Name:</b> Gerbera <b>Collection sites:</b> Wenging, Pherokar (East Jaintia Hills), etc. <b>Description:</b> The capitulum is 2-3 cm in diameter. The leaves are dark green and leathery. The stem grows from the basal clump of leaves to about 40-50 cm. The colour of the flowers varies from red, pink, yellow, orange or white. <b>Uses:</b> It is used as an ornamental flower.	<b>Scientific name:</b> <i>Thysanotus maximus</i> <b>Family:</b> Phoraceae <b>Local name:</b> Bym (Khasi) <b>Collection sites:</b> Nongstien village (East Khasi Hills), etc. <b>Description:</b> It is a large tufted grass, growing up to 1 m tall. Its leaf blades acuminate to a fine point with margin of up to 30 cm long and 7 cm wide. Sheathing glumes are large ranging from 60-80 cm long or more. <b>Uses:</b> Used for weaving. It is exported outside the state and then marketed throughout the country.		
	<b>Cinnamomum tamala</b>		<b>Houttuynia cordata</b>
<b>Scientific name:</b> <i>Cinnamomum tamala</i> <b>Family:</b> Lauraceae <b>Local name:</b> Sa-lyng (Khasi) <b>Collection sites:</b> Sakhym village (East Khasi Hills), Damb village (West Khasi Hills) and Mlang village (Pherokar district), etc. <b>Description:</b> An evergreen tree, attaining the height of 7.5 m and girth of 14 cm; usually found in altitudes from 500 to 2500 m. Leaf length is 8-12 cm and width 6-9 cm. <b>Uses:</b> Used as spice in food and curry. Used for treatment of diabetes, cold and toothache.	<b>Scientific name:</b> <i>Houttuynia cordata</i> <b>Family:</b> Saururaceae <b>Local name:</b> Zu-mphuk (Khasi) <b>Collection sites:</b> Baha Market (East Khasi Hills), etc. <b>Description:</b> Houttuynia 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, 4-6 cm long and 2.5-4 cm wide and purple underneath. <b>Uses:</b> 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.		
	<b>Sarcandra globosa</b>		<b>Bambusa pallida munnii</b>
<b>Scientific name:</b> <i>Sarcandra globosa</i> <b>Family:</b> Chloranthaceae <b>Local name:</b> Tse Khonon (Khasi) <b>Collection sites:</b> Sakhym market, Shillong, etc. <b>Description:</b> Leaf blade elliptical or ovate-lanceolate, leathery and margin sharply serrated. Leaves arranged on stem in opposite. Fruit globose, 3-5 mm in diameter and in cluster. <b>Uses:</b> Used as an ornamental plant during Christmas season. Its leaves and roots are also used for medicinal purposes.	<b>Scientific name:</b> <i>Bambusa pallida munnii</i> <b>Family:</b> Poaceae <b>Local name:</b> U-Shin (Khasi) <b>Collection sites:</b> With the village near Lakpying (East Khasi Hills), etc. <b>Description:</b> The rhizomes are up to 10-15 cm apart, stem with 10-15 nodes at the base. It is a fast growing species, widespread, robust, hardy and unimpaired by frost and insects. <b>Uses:</b> It is used in fencing, handcraft and ornaments.		
	<b>Phyllanthus capitatum</b>		<b>Passiflora foetida</b>
<b>Scientific name:</b> <i>Phyllanthus capitatum</i> <b>Family:</b> Euphorbiaceae <b>Local name:</b> Sa-rot (Khasi) <b>Collection sites:</b> Sakhym village (East Khasi Hills), etc. <b>Description:</b> It is a rhizomatous evergreen plant, which bears flat pedicels with three lobes. It grows in wet or an altitude of 100-1000 m above sea level. The stem 6-8 cm in diameter and 4-5 m tall. Leaves are tough and length is 4-6 cm. <b>Uses:</b> Commonly used by locals for wrapping and packing of edible items.	<b>Scientific name:</b> <i>Passiflora foetida</i> <b>Family:</b> Passifloraceae <b>Local name:</b> Son Brib (Khasi) <b>Collection sites:</b> Mlang market (West Khasi Hills), etc. <b>Description:</b> 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 covering. The pulp is green to dark purple. The seeds are orange colored, juicy and has many air sacs and hard, dark brown or black seed coats. <b>Uses:</b> The fruit is eaten raw.		

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## THREATENED FISHES OF MEGHALAYA

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

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## MEDICINAL PLANTS USED BY THE PEOPLE OF KHASI AND JAINTIA HILLS

	<b>Scientific name:</b> <i>Drynaria cordata</i> <b>Family:</b> Polypodiaceae <b>Local name:</b> Bit roogon <b>Description:</b> A slender, effuse annual herb. Leaves broad with a sharp pointed tip, striated, with several lobes at the base. Flowers 4-6 mm across. <b>Medicinal uses:</b> The decolour of whole plant is used for treating scurvy and diabetes. Leaf paste is applied as an antiseptic in insect bite.		<b>Scientific name:</b> <i>Spilanthes acmella</i> <b>Family:</b> Asteraceae <b>Local name:</b> Koning <b>Description:</b> An annual herb up to 1 m tall, stems opposite, erect, branched. Flower heads small, pale yellow, solitary or terminal panicles. <b>Medicinal uses:</b> Crushed inflorescence is put into boiling water and the solution is used to get relief from rheumatism.
	<b>Scientific name:</b> <i>Phlogacanthus thyralliflorus</i> <b>Local name:</b> Oengpiang veta <b>Family:</b> Acanthaceae <b>Description:</b> Shrub 3-4 high, glabrous, branched, bark grey or greyish-brown. Leaves rhombic-ovate, base glabrous beneath. Flowers deep red, slightly curved, about 4 cm. <b>Medicinal uses:</b> Leaves and barks are used as a tonic, roasted and eaten in liver.		<b>Scientific name:</b> <i>Mahonia acuminatula</i> <b>Family:</b> Berberidaceae <b>Local name:</b> Dampiang <b>Description:</b> An erect shrub or woody climber with soft, corky bark. Leaves shining above and pale beneath. Spines thick on either side and very large. Flowers yellow. <b>Medicinal uses:</b> 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.
	<b>Scientific name:</b> <i>Lantana camara</i> <b>Local name:</b> Ding epi pangkash <b>Family:</b> Verbenaceae <b>Description:</b> It is a prostrate shrub and considered as a weed. Flowers orange, white or pinkish. Fruits purple-blue berries. <b>Medicinal uses:</b> Used as remedy for whooping cough, asthma, chronic bronchitis, malaria, dengue, fever and jaundice.		<b>Scientific name:</b> <i>Mimosa pudica</i> <b>Local name:</b> Bar bar <b>Family:</b> Fabaceae <b>Description:</b> Offshoots have stems and branches prostrate and hairy. Leaves very sensitive, with leaflets very large. Flowers yellow. <b>Medicinal uses:</b> Decoction of leaf is used for treating diabetes and skin diseases. The leaf paste is applied for boils.
	<b>Scientific name:</b> <i>Solanum nigrum</i> <b>Local name:</b> Sui-pangpi <b>Family:</b> Solanaceae <b>Description:</b> An erect, glabrous 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 waxy. <b>Medicinal uses:</b> The juice of the plant is used for treating skin, cancer and other skin diseases. The fruits are also used for treating asthma.		<b>Scientific name:</b> <i>Coccoloba speciosa</i> <b>Local name:</b> Sui-pangpi <b>Family:</b> Zingiberaceae <b>Description:</b> 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. <b>Medicinal uses:</b> Rhizome is dried and ground into powder and is used for treating rheumatism and rheumatoid.

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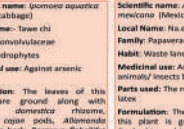
## MEDICINAL PLANTS USED BY TRADITIONAL MEDICINE PRACTITIONERS IN GARO HILLS

 <p><b>Terminalia chebula</b> 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 elaeagnifolium, leaves of Commersonia bartramia, seeds of Spondias pinnata and young leaves of Aegle marmelos. This mixture is mixed with water and taken as a soup. Dose: Normally according to age, half a cup, two times a day before meal. Caution: Overuse may harm liver.</p>	 <p><b>Pistia stratiotes</b> Scientific name: Pistia stratiotes Common name: Water lettuce Local name: Kap ul/ Balbo pul Family: Araceae Habit: Hydrophytes Medicinal use/Treatment: Against Diabetes Formulation: The whole plant is mixed with flowers of Adiantum species, seeds of Symplocos caroliniana, bulb of Allium cepa, bark of Anacardium occidentale, fruit/bark of Syzygium jambos, young leaves of Curatella racemosa, rhizomes of Kaempferia species and Curatella 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><b>Datura metel</b> Scientific name: Datura metel Common name: Devil's trumpet Local name: Biring kyon Family: Solanaceae Habit: Shrub Medicinal use/Treatment: Against mental retardation Formulation: The whole plant is combined with the leaves of Eleusine indica, leaves of Acorus calamus, rhizomes of Curatella species, top of Eleusine indica, bones of Dioscorea and bones of Aegle marmelos 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 inhaled in a Tee and given to wear. Dose: Normally according to age and condition.</p>
 <p><b>Rauvolfia serpentina</b> 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 Swertia chinensis, leaves of Solanum elaeagnifolium, leaves of Curatella racemosa, stem of Solanum elaeagnifolium, young leaves of Phyllanthus amboinensis and Curatella 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><b>Citrus indica</b> Scientific name: Citrus indica Common name: Indian wild orange Local name: Moring namang Family: Rutaceae Habit: Tree Medicinal use/Treatment: Against ascaria Formulation: Fruits of this plant are mixed with young leaves of Corchorus capsularis, leaves of Solanum elaeagnifolium, also very pulp and rhizomes of Curatella species and made a juice to drink. Dose: Normally according to age, 2-3 table spoonful, 3 times a day after meal. Caution: Over use may harm stomach.</p>	 <p><b>Typhonium trilobatum</b> Scientific name: Typhonium trilobatum Common name: Typhonium Local name: Tukang/Bakulu Family: Araceae Habit: Wasteland 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 Aegle marmelos 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><b>Ipomoea aquatica</b> Scientific name: Ipomoea aquatica (Swamp cabbage) Local Name: Taw chi Family: Convolvulaceae Habit: Hydrophytes Medicinal use: Against arsenic poison Formulation: The leaves of this plant are ground along with Curatella racemosa, Phyllanthus, Calamus rotundus pods, Allomonia 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><b>Argemone mexicana</b> Scientific name: Argemone mexicana (Mexican poppy) Local Name: Na ek wagan Family: Papaveraceae Habit: Waste land herb Medicinal use: Antidote for snake/ animals/ insects bite 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 capsularis leaves/roots, Allomonia cathartica bark, Thevetia peruviana seeds, Penicillium monodon head and normal flies, 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><b>Euphorbia pulcherrima</b> 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, also very 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><b>Curcuma amada</b> Scientific name: Curcuma amada (Mango ginger) Local Name: Diko tegachiu 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, Curatella species, Solanum elaeagnifolium, Aegle marmelos, young leaves of Phyllanthus amboinensis, Madia rotundifolia berries, Opuntia species (red) stalk, Calamus rotundus leaves, The allium tuber (Garo), Dike che 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><b>Oroxylum indicum</b> 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, Curatella racemosa rhizomes, Leucosyria argentea leaves/pods, Allomonia cathartica bark, Curatella 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/ intestine.</p>	 <p><b>Cherodendron colebrookianum</b> Scientific name: Cherodendron colebrookianum (Glory bower) Local Name: Dongam bol Family: Lamiales 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, Allomonia cathartica rhizomes, Solanum elaeagnifolium 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><b>Averrhoa carambola</b> Scientific name: Averrhoa carambola Local name: Gasta (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><b>Delonix regia</b> 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 leafy appearance.</p>	 <p><b>Tamarindus indica</b> Scientific name: Tamarindus indica Local name: Chang (Garo) Description: The 'tamrind' is a long fruit, medium sized, fleshy fruit, which attains a maximum height of 12-18 m. The fruit has a fleshy juicy pulp.</p>	 <p><b>Aroca catechu</b> Scientific name: Aroca catechu Local name: Gasa (Garo) Description: This species 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 soft 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><b>Cassia fistula</b> Scientific name: Cassia fistula Local name: Sana (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><b>Calamus erectus</b> Scientific name: Calamus erectus Local name: Sanki (Garo) Description: Calamus erectus is an emergent palm. It does not climb and grows only to about 3m tall, with short, weakly clustering stems to 1m. The leaves are long, slightly curved and bear many long, wide leaflets.</p>	 <p><b>Ziziphus sp.</b> 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 streaky-green.</p>	 <p><b>Crescentia cujete</b> Scientific name: Crescentia cujete Local name: Pulbit (Garo) Description: It is a dicotyledonous plant with single leaves, which are alternate or in clusters of short shoots.</p>

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

 <p><b>Agapetes variegata</b> Scientific name: Agapetes variegata Local name: Sotlamut Family: Viscaceae Description: Terminalia an epiphytic shrub, upto 5m high, bark greyish brown or reddish brown, leaves broadly elliptic, glaucous-above, lower lobes, glaucous-green, pubescent, pedicels red. Medicinal uses: Fruits having sweet taste and eaten raw or made into chutney or cooked with fish.</p>	 <p><b>Rhinotechum ellipticum</b> Scientific name: Rhinotechum ellipticum Local name: Javila Family: Gesneriaceae Description: An erect under shrub with thickening stem, young parts tomentose. Leaves opposite, broad elliptic, strongly acute, lateral nerves 14-15, are either half spread parallel. Flowers small. Medicinal uses: Tender shoots and leaves of the under shrub are eaten raw or boiled in vegetable.</p>
 <p><b>Adhatoda vesica</b> Scientific name: Adhatoda vesica Local name: Lathad Family: Acanthaceae Description: Emerges stout perennial shrub. Leaves elliptic-lanceolate or ovate-lanceolate, dark green above, leathery. Flowers white, with purple throat arranged in spikes with large bracts. Medicinal uses: Fruits having sweet taste and eaten raw or made into chutney or cooked as vegetable. Flowers are also cooked as vegetable.</p>	 <p><b>Cherodendron colebrookianum</b> Scientific name: Cherodendron colebrookianum Local name: Dimp Jarem Family: Viscaceae Description: A shrub about 5 m high with glaucous stem and disjunctive small, dark, upright panicle. 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><b>Ficus hispida</b> Scientific name: Ficus hispida Local name: Dimg loipoi Family: Moraceae Description: Small trees with fissure lenticels. Leaves glabrous, venate, obtuse to acuminate, acutate above, long pubescent beneath. Male flowers Panicle 1-2, female 1-2, female flowers Panicle 1-2, secondary, rigid long hairy. Uses: Young leaves are used as vegetable and top buds are also edible.</p>	 <p><b>Eryngium foetidum</b> Scientific name: Eryngium foetidum Local name: Chans itlaw Family: Apiaceae Description: An erect, aromatic, glabrous, diffuse, perennial herb with upright, simple, marginal leaves. Flowers in heads, white, both rigid, acute. Petals white. Uses: Leaves are eaten raw as salad or used in curry to flavor them or ground to make chutney.</p>
 <p><b>Houttuynia cordata</b> Scientific name: Houttuynia cordata Local name: Jambuch Family: Sauraceae Description: A perennial herb with creeping root stock and upright stem. Flowers borne in dense spikes, white. Uses: Tender shoots or leaves are eaten raw, usually ground with onion/shall and salt to make chutney or mixed with taro to make salad.</p>	 <p><b>Physalis peruviana</b> Scientific name: Physalis peruviana Local name: Salyida Family: Solanaceae Description: Herbs with soft, pubescent leaves, small yellow flowers with purple inner corolla and mature, globose, yellow, ribbed fruit. The diameter of the fruit is about the size of a marble. It is bright yellow to orange in color. Uses: Fruit is eaten raw, related in salads.</p>

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## BIRDS OF SHILLONG

<b>Choculetta-collared Starling</b> ( <i>Chalcophaps indica</i> )	<b>Spotted-necked Dove</b> ( <i>Columba chinensis</i> )	<b>Female Common Rosefinch</b> ( <i>Eurostocheus arvensis</i> )
<b>Brown Shrike</b> ( <i>Lanius cristatus</i> )	<b>Fairren-breasted Woodpecker</b> ( <i>Dryocopus merulii</i> )	<b>Green-back it</b> ( <i>Parus asiaticus</i> )
<b>Scaly-breasted Munia</b> ( <i>Lonchura punctulata</i> )	<b>Female Grey Shank &amp; Bat</b> ( <i>Nucifraga cyathata</i> )	<b>Yellow-rumped Tit</b> ( <i>Machalaphus chinensis</i> )

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## BIRDS OF MEGHALAYA

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

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## BIRDS OF MEGHALAYA

<b>Whiskered Yuhina</b> ( <i>Yuhina brevirostris</i> )	<b>Asian Emerald Cuckoo</b> ( <i>Chamaea jamaicensis</i> )	<b>Ashy Bulbul</b> ( <i>Icthyophaga asiatica</i> )	<b>Blue-throated Barbet</b> ( <i>Ptilinopus asiaticus</i> )
<b>Blue-winged Minia</b> ( <i>Minia cyanoptera</i> )	<b>Long-tailed Broadbill</b> ( <i>Ptilinopus diluvius</i> )	<b>Moustached Hawk Eagle</b> ( <i>Hierosylus nipalensis</i> )	<b>Talauard</b> ( <i>Oriolus chinensis</i> )
<b>Black-crowned Bulbul</b> ( <i>Pycnonotus melanochrous</i> )	<b>Vindictive Flycatcher</b> ( <i>Empidonax traillii</i> )	<b>White-rumped Shikra</b> ( <i>Buteo melanochrous</i> )	<b>Asian Openbill</b> ( <i>Anasplatina melanochrous</i> )

MEGHALAYA BIODIVERSITY SERIES - 21

Department of Forests, Environment & Climate Change  
State of Meghalaya  
Published by Meghalaya Biodiversity Board, Sylvan House, Lower Lachumiere, Shillong-793001  
Photos: Anirban & Anshu by A. Anirban

## 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, single individuals captured in Meghalaya (Thabrah and Bates, 2002) and Cambodia (Watson and Bates, 2001) suggested that its distribution range might be larger. With the latest findings 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.

MEGHALAYA BIODIVERSITY SERIES - 21

Forests & Environment Department  
State of Meghalaya  
Published by Meghalaya Biodiversity Board, Sylvan House, Lower Lachumiere, Shillong-793001  
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 16<sup>th</sup> 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 13<sup>th</sup> and 14<sup>th</sup> 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:

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

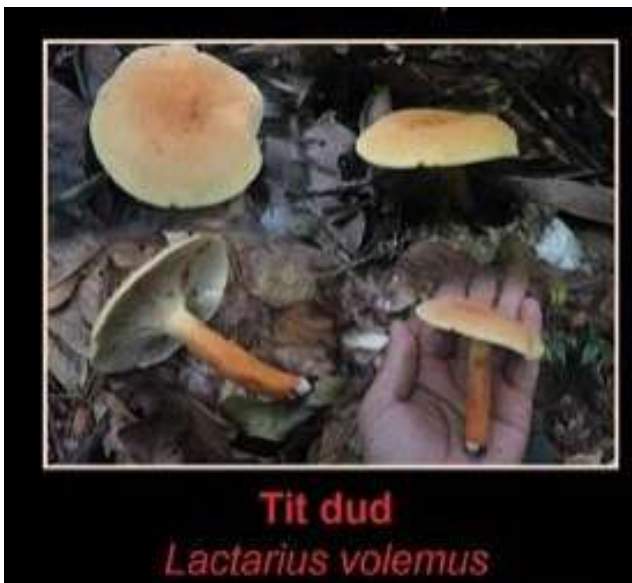


**Scientific Name:** *Thysanolaena maxima*



**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	
<b>CAPITAL FUND:</b>		<b>FIXED ASSETS:</b>	
Opening Balance:	918148.86	As per Schedule 'A'	1310362.00
(+) Excess of Income over Expenditure	<u>915209.00</u>		
	1833357.86		
<b>GRANT FUND:</b>		<b>CURRENT ASSETS:</b>	
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	
<b>STATE PLAN EXPENSES:</b>	Grant in Aid from:	
A) Salary Component:	a) Government of Meghalaya	5076707.00
Salary & Allowances	b) National Biodiversity Authority, Chennai	<u>4607576.00</u> 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	<u>1600.00</u>	261529.00
3. Other Charges :		
a) Formation of Expert group, field visits, consultation & Preparation of SBAP	200000.00	
b) Contingent Expenditure	<u>13060.00</u>	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	<u>330000.00</u>	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	<u>100000.00</u>	1020000.00
6. Miscellaneous Expenditure		5055.00
7. Advertisement		28000.00
8. Start Up Fund for BMCs		980000.00
<b>NBA EXPENSES:</b>		
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	
<b>EXPENSES OUT OF INTEREST</b>			
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 :		<b>STATE PLAN EXPENSES:</b>		
Cash in Hand	-	A) Salary Component:		
Cash at Bank :SB A/c with SBI A/c No. 32375460838	22904947.86	22904947.86	Salary & Allowances	1323597.00
			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	5666035.00	a) Stationery	41671.00
			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
			<b>NBA EXPENSES:</b>	
			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>
		<b>EXPENSES OUT OF INTEREST</b>	
		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
			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
	<b>TOTAL</b>	<b>2166944.00</b>	<b>1854.00</b>	<b>-</b>	<b>-</b>	<b>2168798.00</b>		<b>622365.00</b>	<b>236071.00</b>	<b>858436.00</b>	<b>1310362.00</b>



  
 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



*(Handwritten Signature)*  
Secretary  
Meghalaya Biodiversity Board  
Shillong

# PART-III



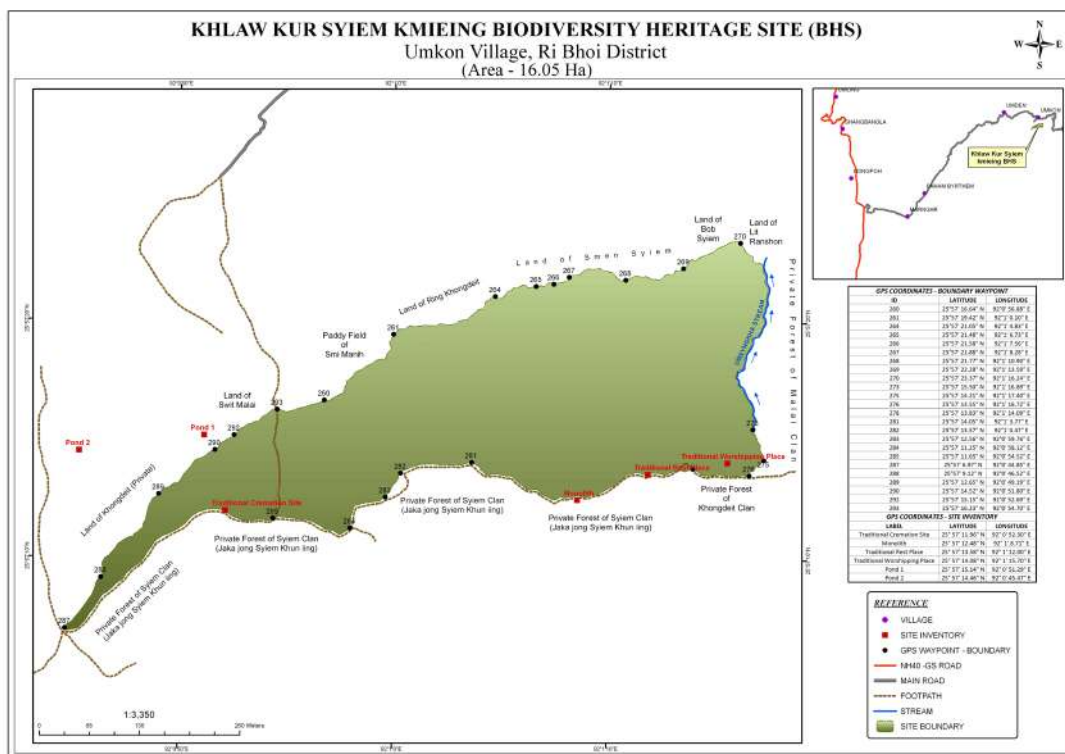


# Board Activities for the year 2017-2018

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

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

On 13<sup>th</sup> 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 13<sup>th</sup> 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:

<b>GPS CO-ORDINATES – BOUNDARY WAY POINTS</b>		
<b>ID</b>	<b>LATITUDE</b>	<b>LONGITUDE</b>
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 13<sup>th</sup> 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 12<sup>th</sup> meeting of the Meghalaya Biodiversity Board (MBB) on the 22<sup>nd</sup> 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 29<sup>th</sup> 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 NONGKYNRIH	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 MARBANIANG	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/WAHLINGKIEN 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 MARBANIANG	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 Thyllej 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 sohpairen**  
*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**  
*Stibochlora ricei*

**Constable**  
*Dichorhiza nestimbanes*

**Mixed Patch**  
*Dedona awda*

**Courtesan**  
*Eurypis nectus*

**Blue Parley**  
*Luzoniopsis critiata*

**Common Magnet**  
*Chersonesia ricei*

**Himalayan Five-ring**  
*Ypthima sahra*

**White Patch**  
*Dedona langricaudata*

**Tabby**  
*Pseudergatis aedon*

**Grey Count**  
*Tanaisia lepidota*

**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:** Wroughton'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 Stimmer**  
*Crocethemis servilla* (Muls)

**River Holider**  
*Lidalgia inaeata* (Fernald)

**Crimson-tailed Marsh Hawk**  
*Orthetrum prasinum* (Muls)

**Blue-Tailed Forest Hawk**  
*Orthetrum triangulare* (Muls)

**Blue-tailed Yellow Stimmer**  
*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 Phiangli

## Sacred Groves of Meghalaya



Mairikiang



Sivasagar



Jaintia



Laitumkhar

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 'Khlaw 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 T're' 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. K. Khasi

## 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 & Illustration: Basu, Bhowmik, Khasi, Syim, Design: Pradipkumar Phiangli



2017-2018:

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

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

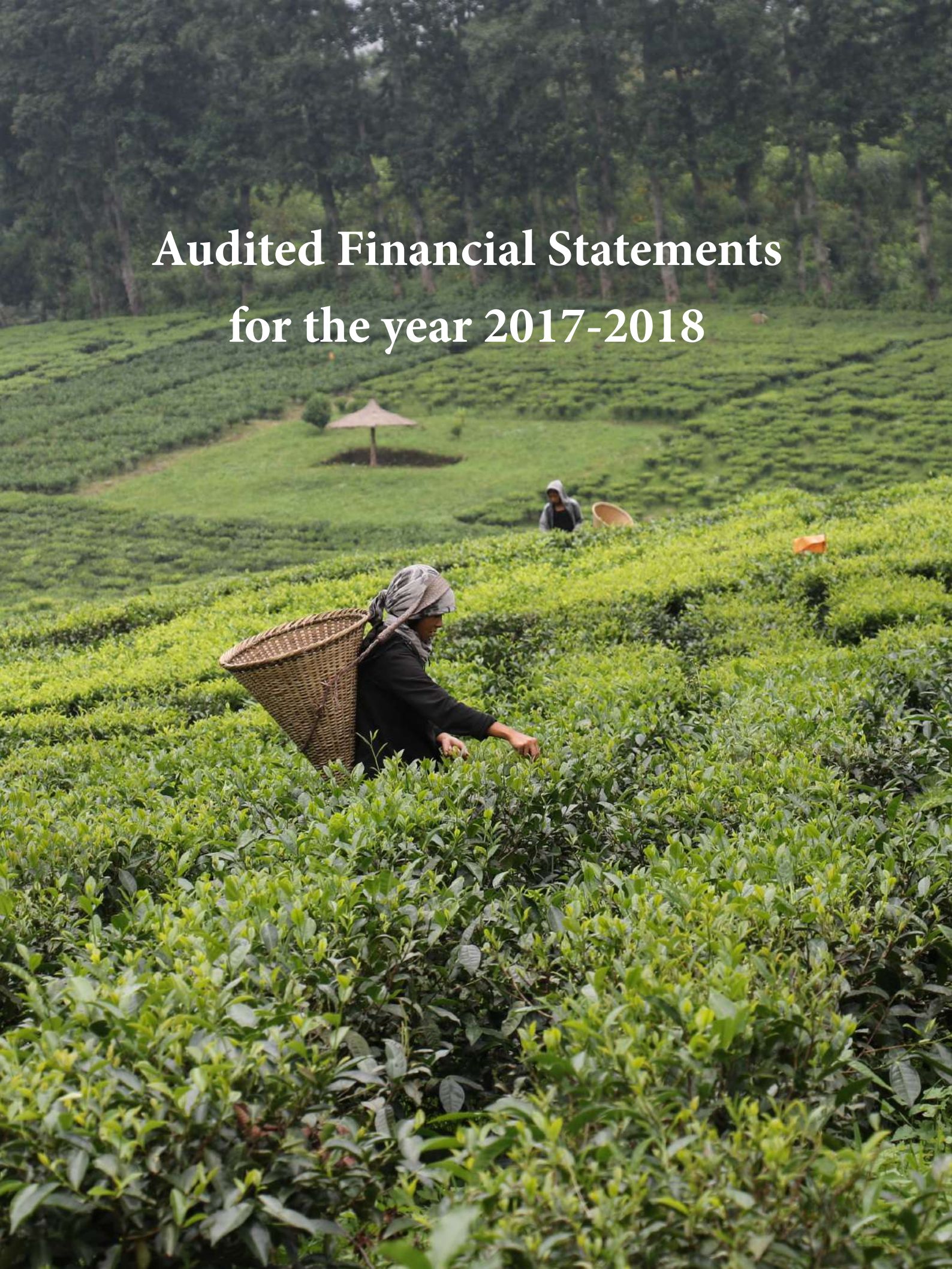


**Scientific Name:** *Anthoceros* sp.





# 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	
<b>CAPITAL FUND:</b>		<b>FIXED ASSETS:</b>	
Opening Balance:	1833357.86	As per Schedule 'A'	1115977.00
(+) Excess of Income over expenditure	<u>771795.00</u>		
	2605152.86		
<b>GRANT FUND:</b>		<b>CURRENT ASSETS:</b>	
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	
<b>STATE PLAN EXPENSES:</b>		
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	
<b>NBA EXPENSES:</b>		
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)

*(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 :			<b>STATE PLAN EXPENSES:</b>	
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
			c) Posters /Banners for Exhibitions and Seminar	10000.00
Bank Interest	901186.00		d) POL & Vehicle Maintenance	136658.00
Sale of books	54994.00		e) Consumables for Computers	26560.00
Old cheques written back	10000.00		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
			<b>NBA EXPENSES:</b>	
			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
				<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)  
  
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

**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	
<b>STATE PLAN EXPENSES:</b>		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		Bank Interest	901186.00
a) Stationery	21700.00	Sale of books	54994.00
b) Telephone	15734.00	Old cheques written back	10000.00
c) Posters /Banners for Exhibitions and Seminar	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		
<b>NBA EXPENSES:</b>			
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**

<u>RECEIPTS</u>		<u>PAYMENTS</u>	
Opening Balances :		<b>STATE PLAN EXPENSES:</b>	
Cash in Hand	-	A) Salary Component:	
Cash at Bank :SB A/c with SBI A/c No. 32375460838	<u>20036125.86</u> 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	<u>1450000.00</u> 5882000.00	2. Office Expenses	
		a) Stationery	21700.00
		b) Telephone	15734.00
		c) Posters /Banners for Exhibitions and Seminar	10000.00
		d) POL & Vehicle Maintenance	136658.00
		e) Consumables for Computers	26560.00
Bank Interest	901186.00	f) Postal Stamps	<u>3843.00</u> 261935.00
Sale of books	54994.00	3. Other Charges :	
Old cheques written back	10000.00	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
		<b>NBA EXPENSES:</b>	
		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

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>



*Niron 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



