

## Research and Publications:

### 1. Dr. (Mrs) E. M. Pala (Head, Department of Zoology)

(A) Papers presented in Conference, Seminars, Workshops, Symposia etc:

Sl. No .	Title of the Paper Presented	Title of Conference/ Seminar	Organised by	Whether International/ National/ State/ Regional/ College or University level
1	A Report on: Acceptance Scenario and Consequences of Family Planning Methods in Mawryngkneng PHC, East Khasi Hills, Meghalaya.	Issues in Contemporary Society: Rights, Duties and Sustainability in Search of Harmony.	Department of Philosophy, Shillong College in collaboration with IQAC, Shillong College.	UGC & ICPR sponsored National Seminar in Applied Ethics (14 <sup>th</sup> & 15 <sup>th</sup> July, 2016)
2	Digital Divide and Internet Penetration with Special Reference to Meghalaya	“Bridging the Digital Divide-Role of Libraries & Information Centers with Special Reference to North Eastern Region”	Shillong College Central Library in collaboration with IQAC, Shillong College	Two Day International Conference (5 <sup>th</sup> and 6 <sup>th</sup> September, 2018)
3	An urgent need of sustaining the existence and identity of a community with Reference to Khasis of West Khasi Hills, Meghalaya.	“Bridging the Digital Divide-Role of Libraries & Information Centres with Special Reference to North Eastern Region”	Shillong College Central Library in collaboration with IQAC, Shillong College	Two Day International Conference (5 <sup>th</sup> and 6 <sup>th</sup> September, 2018)
4	Inborn Ethologists who Metaphorically Transcribed Animal Behaviour to Ethical Values.	The Changing Dynamics of Tribal Society in India with Special Reference to North Eastern Region.	Department of Sociology and IQAC Shillong College.	National seminar.

**(B) Publications:** *Research Papers published in refereed Journals, Non- Refereed but Recognised and reputable Journals and Periodicals having ISBN/ISSN numbers, Conference proceedings as full papers, etc.*

Sl. No	Title with page Nos.	Journal/Proceedings Volume(Name) with year published	ISSN /ISBN No.	Whether peer reviewed	Year
1	Physiological stress in kidney of <i>Channa gachua</i> caused by city garbage and municipal wastes: histo-pathological and electron microscopical analysis. 16 pages	International Research Journal of Natural and Applied Sciences Volume 4, Issue 4, April (2017)	ISSN: 1431-9276	Yes	2017
2	Microscopy and Microanalysis of Blood in a Snake Head Fish, <i>Channa gachua</i> Exposed to Environmental Pollution. 09 pages	Microscopy and Microanalysis (2016) Volume 22 Issue 1	ISSN: 2349-4077 Cambridge University Press.	Yes	2016
3	Physiological significance of adverse effects of city garbage and municipal wastes on skin and muscle of a hill stream fish of North East India. 23 pages	International Research Journal of Natural and Applied Sciences Volume 3, Issue 9, September (2016)	ISSN: 1431-9276 Open Access International e-journal	Yes	2016
4	City garbage and municipal Wastes causing Physiological stress in Testis and Sperm of the fish, <i>Channa gachua</i> in a North East Indian Hill Stream. 13 pages	Imperial Journal of Interdisciplinary Research (IJIR) Vol-2, Issue-11, (2016)	ISSN: 2349-4077 Online Journal Published by: Finlogy Publication.	Yes	2016

5	Ultrastructural Deformities in the Scales of <i>Cyprinus carpio</i> Inhabiting Two Government-Sponsored Fish Farms in North-East India Contaminated by Municipal Wastes and Other Pollutants. 5pages	Microscopy and Microanalysis (2018) Volume 24, Issue	ISSN: 1431-9276 Cambridge University Press.	Yes	2018
6	Effects of Pollution on the Haematology of <i>Cyprinus carpio</i> inhabiting two Government Sponsored Fish Ponds in East Khasi Hills District, Meghalaya, India.	Journal of Aquatic Biology and Fisheries, University of Kerala, Kerala, India.	Communicating ISSN 2321-340X Reference number-JABF_35_2021	UGC listed	2021
7	A case study on the impact of sand and stone quarrying on the aquatic ecosystems of Umtngar River, East Khasi Hills District, Meghalaya. In "Understanding Water Crisis". Eds D.A. Kharchandy and Kwilly Nongrum, Lakshi Publishers and Distributors, New Delhi, India. Pg no-159-175.	Lakshi Publishers and Distributors, New Delhi, India, 2021	ISBN 978-93-8212041-4		2021
8	Ultra Deformities in	Lakshi Publishers and	ISBN 978-93-8212041-4		2021

	<p>the gills of <i>Cyprinus carpio</i>. Inhabiting two government sponsored fish farms in East Khasi Hills District, Meghalaya, contaminated by municipal wastes and other pollutants. In “Understanding Water Crisis”. Eds D.A. Kharchandy and Kwilly Nongrum, Lakshi Publishers and Distributors, New Delhi, India. Pg no-141-151.</p>	Distributors, New Delhi, India, 2021			
9	<p>Assesment of catchment areas and physico-chemical analysis of springs in Mawlai Area, East Khasi Hills District, Meghalaya, India.. In “Understanding Water Crisis”. Eds D.A. Kharchandy and Kwilly Nongrum, Lakshi Publishers and Distributors, New Delhi, India. Pg no-382-388.</p>	Lakshi Publishers and Distributors, New Delhi, India, 2021	ISBN 978-93-8212041-4		2021

**(C) RESEARCH PROJECTS:**

(a) Research project with external/college funding:

Sl. No	Title of Project	Funding Agency	Nature of Project i.e. Major/ Minor	Period	Grant/ Amount Mobilised (Rs. Lakh)
1	Ultra-structural and elemental analysis of certain tissues of <i>Cyprinus carpio</i> (Common carp) inhabiting two government fish farms in East Khasi Hills District, Meghalaya.	UGC	Minor	24 months	3.20

(b) Student associated with the research project:

Sl. No	Title of Project	Funding Agency	Nature of Project i.e. Major/ Minor	Period	Grant/ Amount Mobilised (Rs. Lakh)	Number of students involved and class
1	Energy Dispersive X-Ray Spectroscopy (EDS) study of scales of <i>Labeo rohita</i> obtained from a local fish market, Iew Duh in Shillong Meghalaya.	Research and Publication Cell, Shillong College	Student's Project.	2016-17	0.04	One
2	Scanning Electron Microscopic (SEM) study of scales of <i>Labeo rohita</i> obtained from a local fish market, Iew Duh in Shillong, Meghalaya.	Research and Publication Cell, Shillong College	Student's Project.	2016-17	0.045	One
3	A survey on the fish diversity	College	Minor	1 year	0.15	02, 5 <sup>th</sup> SEM, Zoology Honours.

	along the River Umiew in Laitlyngkot Village, East Khasi Hills, Meghalaya.					
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## 2. Dr. L.M. Jyrwa

### (A) Papers presented in Conference, Seminars, Workshops, Symposia etc:

Sl. No.	Title of the Paper Presented	Title of Conference/ Seminar	Organised by	Whether International/ National/ State/ Regional/ College or University level
1	Natural Resources and Commodities Export at Dawki (LCS)	Cross border connectivity and Inclusive Growth- Possibilities and Challenges with Special Reference to the North Eastern Region	Shillong College and NEC, ICSSR New Delhi 2017	International
2	An Urgent Need of sustaining the existence and identity of a Community.	Bridging the Digital Divide- Role of Libraries & information centre with reference to North Eastern Region	Shillong College Central Library and IQAC 2018	International
3	A case study on the impact of sand and stone quarrying on the aquatic ecosystems of Umtngar river, East Khasi Hills District, Meghalaya	Understanding Water Crisis: The way forward	Synod college	International
4	Khasi people: Inborn Ethologists who metaphorically transcribed animal behaviour to ethical values	The changing dynamics of tribal society in India with special reference to North Easter Region	Department of Sociology and IQAC, Shillong college	National

### (B) Publications: Research Papers published in refereed Journals, Non- Refereed but Recognised and reputable Journals and Periodicals having ISBN/ISSN numbers, Conference proceedings as full papers, etc.

Sl. No	Title with page Nos.	Journal/Proceedings Volume(Name) with year	ISSN /ISBN No.	Whether peer reviewe	Year
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		published		d	
1	A comparative study of the water quality between umkaliar and lwai stream, east khasi hills district, meghalaya	International Journal of Recent Scientific Vol 7, Issue 10 pp 13899-904	0976-3031	Peer reviewed SJIF	2016 First Author
2	Filling in the gaps for aquatic ecosystem conservation-Biomonitoring for baseline information and capacity building in Meghalaya, India. Pp 9-25	Journal of Ecological Society 2016	2278-0823	Peer reviewed	2016 Second author
3.	Natural resources and commodities export at Dawki LCS and its socio-economic and environmental impacts in Meghalaya	In Proceeding Volume: In Cross border connectivity and Inclusive Growth-Possibilities and Challenges with Special Reference to the North Eastern Region. Publishe dby Shillong College			2018 Corresponding author
4.	Study of Butterfly Diversity and its implication on the environment found in the North Eastern Hill University Shillong Campus. Vol III. No I pg 72-81.	Echoes from the hills	2581-5253	Peer reviewed	2019 Corresponding author
5.	A case study on the Imapct of Sand and Stone Quarrying on the Aquatic	Lakshi Publishers and Distributors, New Delhi, India.	ISBN : 978-93-82120-41-4(HB)		2021 First author

	ecosystem of Umtngar River, East Khasi Hills District, Meghalaya. In “Understanding Water Crisis”. Eds D.A. Kharchandy and Kwilly Nongrum. Pg no-159-175.				
6.	Ultrastructural Deformities in the Gills of <i>Cyprinus carpio</i> (common carp) Inhabiting Two Government sponsored Fish Farms in East Khasi Hills District, Meghalaya, contaminated by municipal wastes and other pollutants. In “Understanding Water Crisis”. Eds D.A. Kharchandy and Kwilly Nongrum. Pg no-141-152.	Lakshi Publishers and Distributors, New Delhi, India.	ISBN : 978-93-82120-41-4(HB)		2021 Third author
7.	<i>Temnosewellia semperi</i> (Platyhelminthes: Temnocephalida) from Maydellia thalassus lugubris (Arthropoda: Gercarcinucidae) of the state of Meghalaya, North East India. Vol 19	Invertebrate Zoology, KMK Scientific Press Ltd 125009 Moscow, Bolshaya Nikitskaya Str. 6	ISSN: 1814-0815	Peer reviewed Scopus list	2022 First author



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**(B) RESEARCH PROJECTS:**

(c) Research project with external/college funding:

Sl. No	Title of Project	Funding Agency	Nature of Project i.e. Major/ Minor	Period	Grant/ Amount Mobilised (Rs. Lakh)
1	Impacts of Stone and Sand Quarrying on the aquatic ecosystems of umtngar river , East Khasi Hills ,Meghalaya	UGC NERO,	Minor	2 Years	Rs 4.6
2	To study the diversity and habitat of fresh water snails and other aquatic animals in Myntang river	RPIC/SC/MRP/2019-20/Zoo	Minor	2years	Rs 0.35
3.	To study the diversity of fishes in the middle region of Umiam river	RPIC/SC/MRP/2019-20/Zoo	Minor	2 Years	Rs 0.50

**3. Dr. S. Khongwir****(A) Papers presented** in Conference, Seminars, Workshops, Symposia etc:

Sl. No.	Title of the Paper Presented	Title of Conference/ Seminar	Organised by	Whether International/ National/ State/ Regional/ College or University level
1	Social Issues: Contraception use and non-use: a case study	Issues in Contemporary Society: Rights, duties and sustainability in search of harmony	Department of Philosophy in collaboration with IQAC, Shillong College	National
2	“Assessment of Catchment areas and Physico-chemical analysis of Springs in Mawlai Area, East Khasi Hills District, Meghalaya, India”	Understanding Water Crisis: The Way Forward	Synod College, Shillong in collaboration with P.A.Sangma foundation and Meghalaya Basin Development Authority on 6 <sup>th</sup> -7 <sup>th</sup> June 2019	International
3	“Traditional Childbirth Practice of the	The Changing Dynamics of Tribal Society in India with	Department of Sociology and IQAC,	National

	Khasis of Nongjri Bah Village, Nongjri Elaka, East Khasi Hills District, Meghalaya, India”	special reference to North Eastern Region	Shillong College on 5 <sup>th</sup> & 6 <sup>th</sup> November 2019	
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4. **Publications:** *Research Papers published in refereed Journals, Non- Refereed but Recognised and reputable Journals and Periodicals having ISBN/ISSN numbers, Conference proceedings as full papers, etc.*

Sl. No	Title with page Nos.	Journal/Proceedings Volume(Name) with year published	ISSN /ISBN No.	Whether peer reviewed	Year
1	Filling in the gaps for aquatic ecosystem conservation- Biomonitoring for baseline information and capacity building in Meghalaya, India. Pp 9-25	Journal of Ecological Society 2016	2278-0823	Peer reviewed	2016
2	Breeding and Nesting Behaviour of <i>Rhacophorusmaximus</i> (Anura: Rhacophoridae in Meghalaya, North East India. Pp 1102-1105	Current Science 2016	0011-3891	Peer reviewed	2016
3	Physico-chemical analysis of Umshing river with special reference to drinking water supply in Mawlai, Meghalaya, North east India. Pp 1-7	International Journal of Research in Environmental Science and technology 2017	2249-9695	Peer reviewed	2017
4	Traditional Childbirth Practice of the Khasis of Nongjri Bah Village, Nongjri Elaka, East Khasi Hills	Proceedings “The Changing Dynamic of Tribal Society in India with Special Reference to the North Eastern Region” Publisher Shillong College, 2019			

	District, Meghalaya, India” . Pg no 23-26.				
5	A new report of the presence of <i>Temnosewallia semperi</i> (Weber, 1890)(Platyhelminthes: Temnocephalida) based on specimens from <i>Maydelliathelphusa lugubris</i> (Wood-Mason, 1871)(Arthropoda:Gercarcinucidae) of the state of Meghalaya, North East India.	Invertebrate Zoology, KMK, Scientific Press Ltd 125009, Moscow, Bolshaya Nikitskaya Str. 6	Paper accepted	UGC listed	-
6	Effects of Pollution on the Haematology of <i>Cyprinus carpio</i> inhabiting two Government Sponsored Fish Ponds in East Khasi Hills District, Meghalaya, India	Journal of Aquatic Biology and Fisheries, University of Kerala, Kerala, India.	Communicating ISSN 2321-340X	UGC listed	-

### RESEARCH PROJECTS:

(a) Research project with external/college funding:

Sl. No	Title of Project	Funding Agency	Nature of Project i.e. Major/ Minor	Period	Grant/ Amount Mobilised (Rs. Lakh)
1					
2					

(b) Student associated with the research project:

Sl. No	Title of Project	Funding Agency	Nature of Project i.e. Major/ Minor	Period	Grant/ Amount Mobilised (Rs. Lakh)	Number of students involved and class
1	Survey of anuran species in and	Research and Publication	Minor, vide letter no. RPIC/SC/MRP/2016-2017/004 dated	I year	Rs 7650/-	1 (one)/ 3 <sup>rd</sup> year (Hons)

	around Mawkyrwat, South West Khasi Hills District	Cell, Shillong College	26/8/16			
2	Diversity of zooplankton in Chandra reservoir, Smit, East Khasi Hills, Meghalaya, India	Shillong College	Minor, vide letter no. RPIC/SC/MRP/2019-20/Zoo dated 18/10/19	1 year	Rs 5000/	5/5 <sup>th</sup> semester

(a) **Publication of Books** etc.: *Books/Chapters/articles published in Books by International/National Level publishers/State and Central Government Publications with ISSN/ISBN Nos. (Subject Books), Articles/Chapters published in Books by Other Local Publishers with ISSN/ISBN Nos.*

Sl. No.	Title with page nos. (with year published)	Book, Title, Editor & Publisher	ISSN/ ISBN No.	Whether peer reviewed	Year
1	Oviposition sites of some anurans in East Khasi Hills, Meghalaya, North East India. Pp 141-162	Diversity and Ecology of Amphibians of India, ENVIS	978-81-929285-5-5	Peer reviewed	-
2	Health and Physical Education Book-5, pp 1-76 (First edition 2019 reprint 2020)	Editors: Dr. O. Kyndiah and Dr. D.F. War, Student's Publication, Iewduh, Shillong, Meghalaya, India	-	-	-
3	Health and Physical Education Book-6, pp 1-84 (First edition 2019 reprint 2020)	Editors: Dr. O. Kyndiah and Dr. D.F. War, Student's Publication, Iewduh, Shillong, Meghalaya, India	-	-	-
4	Health and Physical Education Book-7, pp 1-100 (First edition 2019 reprint 2020)	Editors: Dr. O. Kyndiah and Dr. D.F. War, Student's Publication, Iewduh, Shillong, Meghalaya, India	-	-	-
5	Health and Physical Education Book-8, pp 1-	Editors: Dr. O. Kyndiah and Dr. D.F. War, Student's	-	-	-

	124 (First edition 2019 reprint 2020)	Publication, Iewduh, Shillong, Meghalaya, India			
6	Assesment of catchment areas and physic-chemical analysis of springs in Mawlai Area, East Khasi Hills District, Meghalaya, India. Pg no-382-388, 2021	Understanding Water Crisis. Editors: D.A. Kharchandy and Kwilly Nongrum, Lakshi Publishers and Distributors, New Delhi, India.	ISBN 978-93-8212041-4	yes	-

#### 4. Dr. S. Byrsat

(a) **Papers presented** in Conference, Seminars, Workshops, Symposia etc:

Sl. No.	Title of the Paper Presented	Title of Conference/ Seminar	Organised by	Whether International/ National/ State/ Regional/ College or University level
1	Expressions of GnRH-I and GnIH in Eurasian tree sparrow exposed to a single long day.	International Conference on Recent Advances in Animal Sciences (ICRAAS)	Pachhungaa University College, Aizawl, Mizoram, India.	International
2	Involvement of circadian rhythm in photoperiodic expressions of GnRH-I and GnIH in Eurasian tree sparrow, <i>Passer montanus</i> L.	National Conference on Recent Trends in Zoological Research in North-East India	Department of Zoology, NEHU, Shillong and Zoological Society of India (Kolkata).	National
3	Avian diversity of North-Eastern Hills University campus, Shillong and need for its conservation.	National Symposium on Current Trends in Research in Biotic System	Department of Botany, NEHU, Shillong	National
4	Gonadotropin-inhibitory hormone (GnIH) as a regulator of seasonal reproduction in the Eurasian tree sparrow.	International Conference on Chronobiology: Biological timekeeping and health issues of the 21 <sup>st</sup> century	University of Delhi, New Delhi,	International

5	Role of GnIH in regulation of seasonal reproduction in tree sparrow, <i>Passer montanus</i> .	XXV National Symposium on: Time in Biology and medicine	School of Life Sciences, Pt. Ravishankar Shukla University, Raipur	National
6	GnIH: A novel hormone in regulation of seasonal reproduction in the tree sparrow, <i>Passer montanus</i> .	International Conference on Molecular Signalling (ICMS)	Department of Zoology, NEHU, Shillong.	International

(b) **Publications:** Research Papers published in refereed Journals, Non- Refereed but Recognised and reputable Journals and Periodicals having ISBN/ISSN numbers, Conference proceedings as full papers, etc.

Sl. No	Title with page Nos.	Journal/Proceedings Volume(Name) with year published	ISSN /ISBN No.	Whether peer reviewed	Year
1	Hypothalamic expression of <i>GnRH-I</i> and <i>GnIH</i> in the Eurasian tree sparrow over a single long day	Photochemical & Photobiological Sciences	ISSN1474-9092	Yes	2021
2	Avian diversity of North-eastern Hill University campus, Shillong and need for its conservation. pp. 1395-1402.	Journal of Experimental Zoology, India, Volume 24, year 2021	0972-0030	Yes	2021
3	Circadian rhythm in photoperiodic expressions of <i>GnRH-I</i> and <i>GnIH</i> regulating seasonal reproduction in the tree sparrow, <i>Passer montanus</i> . pp. 111993	Journal of Photochemistry and Photobiology B: Biology, Volume 211, year 2020	1011-1344	Yes	2020

<b>4</b>	Photoperiodic control of GnRH-I in seasonal reproduction of the Eurasian tree sparrow. pp. 934.	Photochemicals and Photobiologicals Sciences, Volume 17, year 2018	1474-9092	<b>Yes</b>	<b>2018</b>
<b>5</b>	Role of GnIH in photoperiodic regulation of seasonal reproduction in the tree sparrow. pp. 3742-3750	Journal of Experimental Biology, Volume 220, year 2017	1477-9145	<b>Yes</b>	<b>2017</b>
<b>6</b>	Human Circadian Rhythms and their Health Implications. pp. 97-118	NEHU Journal, Volume 15, year 2017	0972 - 8406	<b>No</b>	<b>2017</b>