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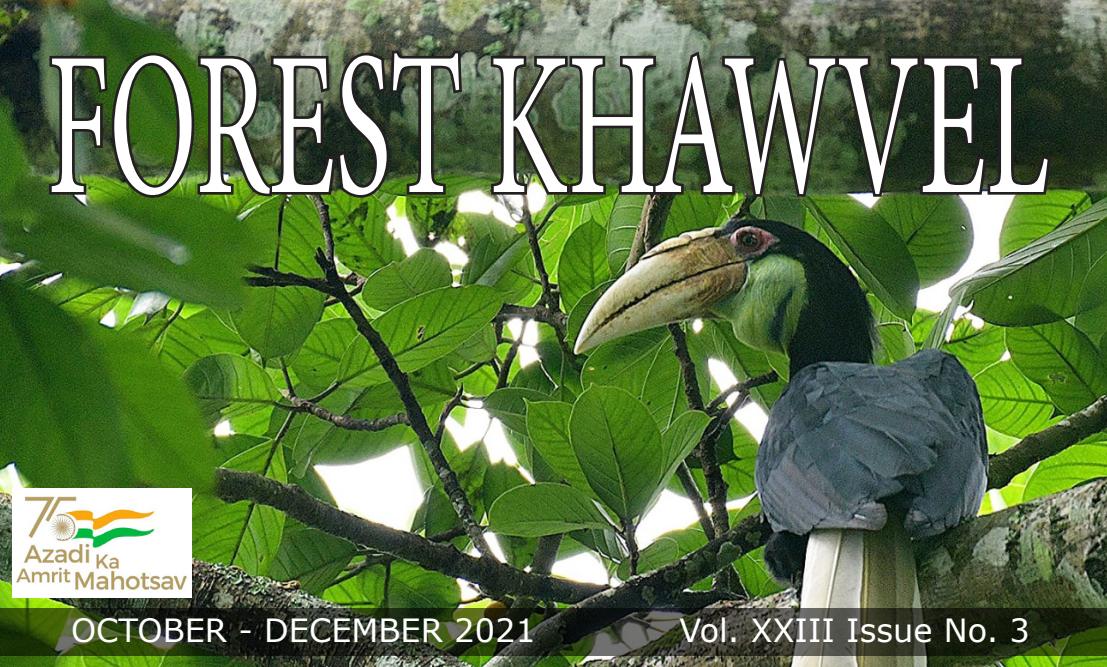
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## 67<sup>TH</sup> NATIONAL WILDLIFE WEEK, 2021 HMAN A NI

National Wildlife Week, 2021 chu Dampa Tiger Reserve bakah Division hrang hrang 13 leh Range hrang hrangah tangkai thei ang bera hman a ni. Aizawl Zoo-ah Zoo Pamphlet chu Hon'ble Minister, Pu TJ Lalnuntluangan a tlangzarh nghe nghe a ni.

EF&CC Department in hmun hrang hranga hman dan tlangpui:

1. Banner, Poster leh Hoarding te hmun hrang hrangah mipuite zirtir nan tar a nih bakah video clip pawh Social media kaltlangin theh darh a ni bawk.
2. Inelna lam, State Level Essay Writing Competition leh infiamna lam, Volleyball tournament te pawh buatsaiah a ni bawk.
3. Awareness Campaign hi hmun hrang hrangah neih a ni a, street campaign te, zirna in lamah te, khaw hrang hrangah te, district huap tein neih a ni. Ramsa humhalhna lam hawi zawnga YMA nena meeting pawh neih a ni nual bawk.
4. Patroling: Department mi leh sa bakah Police te, Village Council leh tlawnngai pawlte nen hmun hrang hrangah a huhova neih a ni.



## FROM EDITOR'S DESK

Hotel-a kan thlen chuan service charge kan chawi a. Hotel a changkan a, mikhual an enkawl that poh leh service charge hi chawi a tam ting mai. Damdawi in, thlawhna, rel leh thil dang engkimah direct-in emaw, indirect-in emaw, service charge kan chawi thin. Service charge hi a pawimawh hle a; kan pek duh loh chuan, min enkawltute (service provider) kha an tlachhe ve nghal dawn tlat. Tluang taka an kal zel theih nan kan chawi ngei a ngai.

Kan ni tin khawsakna kawngah pawh, he leilungin min pek, mihringte mamawh boruak tha, tuihna angte hi a thlawna kan dawn emaw kan tih avangin a hlutna kan chhut chhuak lem lo a. Tichuan, natural resource te hi mihring pawisa-a lei ngai lova kan hman theih avangin a free emaw kan ti ta a, kan roh lo hle a. Kan natural system-in a man (service charge) a phut chu duat taka enkawl, roh, renchem leh a chereu lo zawnga hman hi a ni. He a man (service charge) hi pek chu sawi loh, kan namnul a, ram kan tikang a, kan tichereu zel chu a la ni a. Service charge kan pek duh miau loh chuan tlakchhiat kan hmabak a. A pung (interest) nen kan leilung hian min la thing ang a, kan chawi seng hauh lo ang.

Samson Thanruma  
Editor



THENZAWL FOREST DIVISION



KAWRTHAH FOREST DIVISION



KOLASIB FOREST DIVISION



## INDIA FOR TIGERS – A RALLY ON WHEELS PROGRAMME HMAN A NI

October 9, 2021 (Inrinni) chawhnu dar 1-ah khan India rama Sakei humhalk a tul zia in zirtir tharna 'India for Tigers – A rally on wheels' kharna programme chu Aizawl Zoological Park, Sakawrtuichhun-ah hman a ni. He hun hi Environment, Forests & Climate Change Dept. Minister Pu T.J. Lalnuntluanga'n a hmanpui a, Forest Department hotute, Pu Liandawla Principal Secretary, Pu Jitendra Kumar PCCF (Planning), Pu R.S. Sinha Chief Wildlife Warden, Pu C. Lalbiaka Director Dampa Tiger Reserve leh Pu Lalnunzira Director Aizawl Zoological Park te an tel a, Dampa Tiger Reserve leh Aizawl Zoological Park-a thawkte an tel bawk a ni. Director, Dampa Tiger Reserve hova rally team lo kalte chu Minister hian lo hmuakin rally flag a lo dawng a ni.

India Independence kum 75-na denchhena Azadi Ka Amrit Mahotsav kalpui mek leh National Wildlife Week hman mek ni bawk denchhenin Nation Tiger Conservation Authority (NTCA) chuan 'India for Tigers – A Rally on Wheels' tih hi a duang chhuak a, he rally hi India ram a Sakei humhalk (Tiger Sanctuary) zawng zawngin ni 7 chhung hman tur a ni a, State hrang hrang 18 zet huapin kilometer 7,500 zet



cover tura ruahman a ni. Mizoram-ah pawh Dampa Tiger Reserve atanga bul tanin Kaziranga kaltlanga Manas Tiger Reserve-a tawp tura duan a ni nain; Aizawl Zoological Park thleng tura ruahhmannna hi siam a ni ta zawk a ni.

He hunah hian Aizawl Zoological Park chanchin tawi tarlanna (Pamphlet) buatsaih chu mipuite hnena sem theih turin Minister hian a tlangzarh nghal a ni.



## STATE BOARD FOR WILDLIFE THUKHAWM

November ni 11, 2021 chawhnu khan State Board for Wildlife 9<sup>th</sup> Meeting chu an Chairman, Chief Minister, Pu Zoramthanga hovin CM Conference Hall-ah neih a ni.

He meeting-ah hian Buhvum Wildlife Sanctuary (rawtna hmasa a Saikhawthlir Wildlife Sanctuary tia vuah) siam tura rawtna kal bawhzui dan te sawiho niin, Wildlife (Protection) Act, 1972 hnuiai Buhvum Wildlife Sanctuary puang turin a thuphunga pawm a ni. Aizawl Zoological Park zauh a changtlung zawk cheibawl tura rawtna chhawpchhuah chu tha an ti a. Zirchianga bawhzui ngaite bawhzui ni se tih a ni. Tawi Wildlife Sanctuary chhunga Gravity Water Supply Scheme te, ramsa kuta nunna chan leh inhliamte hnena zangnadarwmna pek chungchangte sawiho a ni a. Dan kalha air gun leh air rifle hmanga ramvak thin an awmloh nan inzirtirna nasa zawkakalpui tha an tih thu an sawi bawk.

He meeting-ah hian Environment, Forests & Climate Change Minister Pu T.J. Lalnuntluanga, Horticulture Development Board Vice-Chairman, Pu

F. Lalnunmawia, Fishery & Sericulture Board Vice-Chairman, Pu C. Lalmuanpuia, Addl. Chief Secretary Pu J.C. Ramthanga, PCCF Pu Jitendra Kumar, Chief Wildlife Warden Pu R.S. Sinha leh member dangte an tel kim hle a ni.



## STATE LEVEL SUB COMMITTEE ON FIRE PREVENTION COMMITTEE THUKHAWM

December ni 10, 2021 chawhma dar 11:00 khan State Level Sub Committee on Fire Prevention chu an Chairman, Pu TJ Lalnuntluanga, Minister, EF&CC Dept hovin SAD Conference Hall-ah an thukhawm. He meeting-ah hian Pu Liandawla, PCCF (HoD) & Principal Secretary, EF&CC Dept. leh Pu H.Lianmawia, CCF(P&D), Member Secretary bakah Department hrang hrang hotute leh NGO-te leh member te an tel tha hle a ni.

He meeting-ah hian kum 2021 kum tira Mizoram kangmei a tawrh nasat dan leh a nghawng hrang hrangte thlirho a ni a. Chairman, Pu TJ Lalnuntluanga chuan kumin kumtira harsatna kan tawhte thlir letin, kum thar lo awm tur atana ruahmanna tha tak neia lo inhmakhua chu tha a tih thu a sawi a. Kan harsatna tawhte hre reng a, kum 2022 thal hmachhawn tura inpuahchahna tha tak neih a tul thu a sawi.

State Level Sub Committee On Fire Prevention Committee vawiina thukhawm chuan kum 2022-ah Fire Prevention week chu 7th February atanga 12th February inkarah hman ni se tiin a rel a. Kum 2022 kangmei



ven thupui (Theme) atan “Kangmei chhuak tur ven mi tin mawhphurhna” tih chu thlan a ni bawk. Lo hal hun ni hnuhnung ber atan March ni 15, 2022 chu ruat ni se tiin a rel a. Hemi hnu lama lo hal emaw, bawhchhiate chu dan hmanga hrem an nih theihnhan District thuneituten ruahmanna siam se tiin rel a ni bawk.

Kum danga tih thin dan ang bawkin, kum 2022-ah pawh kangmei ven kawnga titha zual district pathum leh, district tina titha zual khaw 3 thlan chhuah thin chu kalpui leh ni se tha tih a ni bawk.

## EF&CC MINISTER PU T.J LALNUNTLUANGA HOVIN SENIOR FOREST OFFICERS' MEETING NEI

December ni 9, 2021 khan Environment, Forest & Climate Change Minister Pu T.J. Lalnunluanga hovin PCCF Conference Hall, Aizawl-ah EF&CC Dept a Senior Officers te chu an thukhawm.



Meeting Chairman Minister Pu T.J Lalnunluanga chuan tunhnaia sawrkar hmalakna zingah Nagar Van Yojana chu Municipality Area chauh ni lo, Notified Town Area-ah kalpui a ni thei dawn chu vannneithalmak a tih thu leh Delhi-a EF&CC Minister of State chungah pawh lawmthu a sawi a. Dampa Tiger Reserve atana sum dawn tur ang loh avanga hna thawktute hlawh pek chungchanga harsatna te pawh sum nawr chhuah a ni chu lawmawm a tih thu a sawi bawk a ni. EF&CC Department in Externally Aided Project - JICA a dawng tur hi chhinchhiah tlak a nih thu a tarlang. Pu H.Lianmawia CCF (P&D) chuan meeting a

lo kal zawng zawngte a lo lawm a. “Mizoram, home of rich flora & fauna” documentary enho a ni a, Pu Jitendra Kumar, PCCF (P&D) chuan Department hmasawnna hrang hrang bakah central atanga funding tam zawk project hai chhuah a nih theih nana thil pawimawh leh thawktute indaihlohma (vacancy) awm zatte tarlangin, DFO theuh ten an division-a ngaih-tuahna seng a, tan la zel turin a ngen bawk a ni.

Meeting-ah hian Division hrang hranga hmalakna te thlirho leh sawiho a ni.



## PU LALNUNZIRA, FORESTER, HNENAH WILDLIFE TRUST OF INDIA IN ZANGNA DAWMNA HLAN

Pu Lalnunzira, Forester, Aizawl Forest Division a thawk lai kumin June thlaa duty thawk tura kal chu vanduaithlak takin a chesual a, a hnuah a boral zui ta a. Forest field staff duty lai leh an duty-na hmuna thite hi India rama NGO pakhat Wildlife Trust of India (WTI) chuan a ngai pawimawh hle thin a. Pu Lalnunzira pawh kumin Green Mizoram Day hmanna tur buatsaih turin Falkawn a pan chu motor-ah chesualin a boral phah ta a. Duty tura kal boral ta hi hriain Wildlife Trust of India chuan Ngaihhruihna thuзиak leh pawisa Rs 1,00,000 an rawn hlan ta a ni. WTI hi Noida-a inbun an ni a, heng ngaihhruihna thuзиak leh pawisate hi an aiawhin Pu Liandawla, IFS, Principal Secretary leh PCCF (HoD) chuan a hlan. WTI hian kum 2016 khan Dampa Tiger Reserve-ah pawh duty te hman tur Motor bike 10 lai an lo pe tawh a ni.



## SAINGHO MAN A NI

Aizawl Wildlife Division leh Kolasib Forest Division tangkawp chuan dān kalha Saingho zawrh an man a. Assam lam vaiin Mizoram mi an rawn zawrh chhawntir niin a lang. CJM, Kolasib-ah thubuai siam nghal a ni.

Aizawl Wildlife Division leh Kolasib Forest Division tangkawp hian tunhnaiah Star tortoise pawh 194 zet an lo man tawh a, dān kalha sumdawngte hi hrem niin pawisa chawitir an lo ni tawh bawk a ni. Star tortoise pakhat hi international market-ah chuan Rs.67,775 – Rs.4,37,184 man vel daih a ni. Saingho pawh hi a to thei hle a, Kg-ah Rs.20,000 – Rs.1,00,000 vel a ni a, Saingho chei (carved ivory) phei chu cheng vaibelchhia man lai te pawh a kai thei hial a ni.



## J&K KAWNG LAIHIN MIHRING CHENGTE TIBUAI

Jammu and Kashmir-ah Udhampur leh Banihal town inkar kawng zauh mēk a ni a. National Highway Authority of India (NHAI) hnuiah kawng laih hna hi contractors eng emaw zatin an thawk a ni. Kawng laitute hian Tawi lui leh Chenab luiah leivung an pahiñ nasat avangin lui nihphung (natural course) a danglam phah bakah lui mawng lama mihring chengte a tihbua avangin National Green Tribunal (NGT) chuan NHAI chu cheng vaibelchhe 129 chawi turin a ti a. NHAI hian environment restoration plan a siam ang a, chumi tihhlawhtlin nan chuan Rs.129 crore hi hman tur a ni. Tin, dān bawhchhia contractor-te chu hrem turin NHAI hi a hriattir bawk a ni. (CEP e-News)



## INDIA RAMNGAW HEU

Kum 2010 khan India chuan ramngaw (natural forest) hectare maktaduai 31.3 a nei a, chu chu a ram zau zawng atanga 11% a ni pha a ni. Mahse kum 2020 khan natural forest hi 1,320,00 hectares zetin a kiam a, a kiamna hi boruaka CO<sub>2</sub> metric tonne 67.3 zet tihchhuah ang hu niin Global Forest Watch chuan an tarlang. India chuan ramngaw siam leh turin nasa takin hma a la a, National Mission on Green India (GIM), National Afforestation Programme (NAP) leh Compensatory Afforestation hmangin India ram hmun hrang hrangah hma lāk a ni.

Union Budget-a tarlan a nih danin kum 2019-20-a MoEFCC budget chu cheng tlûklehdingawn 26.5 a ni a, 2020-2021-ah chuan cheng tlûklehdingawn 31-a ni tawh a ni. UN Framework Convention on Climate Change Conference of Parties (COP 2015) angin Bonn Challenge hnuiah India chuan ram bua hectare maktaduai 13 chu kum 2020-ah siamthat hman a intiam a, chubâkah kum 2030-ah hectare maktaduai 8 siamthat belh hman a intiam bawk a ni. (CEP e-News)



## LIVING WALL

University of Plymouth-a mithiamte chuan kan chenna in bang hi fabric nem chia tuamin, a karah lei tha dahna siam leh hnua hnime totirin chu lai inchhung boruak chu dai nuam takin a vawng thei a ni, an ti a. Chutiang chi chuan pindan dang aiin 31.4% zetin a dai thei an ti tlat.



## NATIONAL CLEAN AIR PROGRAMME

National Clean Air Programme (NCAP) hi kum 2019 atanga kalpui niin national ambient air quality standards (NAAQS) pha lo khawpui 132-ah hmalak a ni a. Khawpui 132 atanga 124 te hi mihring maktaduai 34 chuang theuh chenna an ni a, a bak khawpui 8 hi mihring maktaduai chuang theuh chenna ni bawkin, hengah hian performance-based grants pêk an ni bawk a ni.



NCAP atan sorkar laipui chuan kum 2019-20 leh 2020-21 atan Rs.375.44 crore pe chhuak tawhin, khawpui (non-attainment cities) 82-ah kum 2021-22 atan Rs.290 crore ruahman a ni tawh bawk. NCAP-ah hian kum 2021-26 atan Rs.700 crore ruahman a nih bakah 15th Finance Commission chuan mihring maktaduai 42 chin chunglam chenna khawpuiah kum 2020-21 atan special grant (Rs 4,400 crore) a lo pe chhuak tawh bawk a ni. Hemi bakah hian kum 2021-22 atanga 2025-26 atan khawpui 42-a air quality siam thatna turin Rs.12,139 crore ruahman a ni bawk a ni. (*CEP e-news*)

### 2030 CLIMATE TARGET

Prime Minister, Pu Modi chuan COP26 hmaah India chuan kum 2030-ah chuan non-fossil fuel atangin 500 GW power siam a tum thu puangin heta tanga 50% chu renewable a nih tur thu a sawi a. Hei hian 1 billion tones carbon emission ti tlemin, chu chuan carbon 45% tih tlem a beisei thu a sawi.

Kum 2030-ah chuan lungalh thei hman 45%, oil-33% bakah natural gas 8% a tlem beisei a ni a. Hmabak bera kan neih chu fossil fuel hman tam a ni a, mahse kan tum ram hi hmalakna inthlak danglam avangin kan pha chiah kher lo thei a ni.

### COP26

United Frame Work Convention on Climate Change (UNFCCC) hnuia sik leh sa danglam zel tiziaawm tur leh, a thlentu thil hrang hrangte do leh tihhniam kawnga ram inthurualte inkhawmpui vawi 26 na, COP26 chu October 31-12 November-ah UK-a khawpui pakhat, Glasgow-ah COP26 inkhawmpui hi huaihawt a ni a. He inkhawmpuiah hian ram palai ten climate change dona atana an ruahmannan te, climate change mila mihring khawsak phung thlakthleng tul dan te, ram rethei zawk ten an ramngaw tichhe lova hmasawnna kawng an zawk ve theihna kawnga tanpui leh inpeizawn dan tura ruahmannate an sawiho a ni.

Heti lama sawihona inkhawmpui hmasa ber hi kum 1995 khan Germany khawpui, Berlin-ah an lo huaihawt tawh a. COP21, Paris-a neihah chuan ‘Paris Agreement’ chu ram hrang hrang palaite’n an pawm tawh bawk. He Paris Agreement-in a phut angin, he thuthlung pawmtu ramte chuan khawvel lum zel tur venna atan intiamkamna thuthlungah an hming an lo ziah hnan tawh a ni.

COP26 hi inkhawmpui lian pawimawh ber zinga mi a ni a. Ram kang leh sik leh sa inthlak avanga khawvelin chhiatna a tawrh nasat ber kum ang hiala chhal theih, kum 2021 hi kum tum dang zawng aiin mi thiamte leh mi langserte’n an ngaihven a. Paris Agreement hnuia thuthlung tihhlawhtlinna kawnga ke pen dan tur ruahmannan chak zawk a awm theihna tur kawng te, ram hrang hrangin sik leh sa inthlak tihziaawmna kawnga an hmalakna tur te (hei hi Nationally Determined Contributions-NDC an ti bawk) an phawrhin an thlirho bawk. Carbon neutral (carbon siam chhuah aia a hip ral a tam zawk chuan carbon neutral an ti) ni tura ruahmannan chu heng China, Japan, South Korea, France leh UK ten hun bituk neia

an ruahman tawh laiin, hemi kawnga ruahmanna la nei ve lo India ram pawhin a hmachhawpte a pholang ve bawk a ni.

## AIRGUN SURRENDER ABHIYAN

Prime Minister Narendra Modi chuan ni 26/12/2021 khan Mann Ki Baat radio broadcast aṭangin sava humhalhna atana Arunachal Pradesh-in “Airgun Surrender Abhiyan” an kalpui chu a fak hle a.

“Ram mi duh takte u, Arunachal mite chuan kum khat dawn hmalâkna danglam tak ‘Arunachal Pradesh Airgun Surrender Campaign’ an kalpui mēk a, sava tihhluum a tawpna turin mite chuan mahni duhthuin an airgun-te an tung mēk a ni. Arunachal Pradesh-ah hian sava chi hrang 500 chuang awmin an rem chak hle a, chu chu he airgun surrender campaign hmang hian siam that mēk niin mipui chi hrang hrang thlawp pawh a hlawh hle a, tunah hian airgun 1600 chuang tun a ni tawh a ni. Arunachal-a chengte hmalâkna hi a entawntlakin ka fak takzet a ni,” tiin PM Modi chuan a sawi a ni.



‘Arunachal Pradesh Airgun Surrender Campaign’ hi an Forest Minister Mama Natung hmalâkna niin, sava humhalh turin mipui te chu an airgun-te tung turin a ngen a. Ni 17/3/2021 khan Lumdung, East Kameng district-ah bulṭanin, hemi nî hian airgun 46 tun a ni a. Tunah hian airgun 1,672 tun tawh niin silai pangngai (DBBL/SBBL) 8 bakah power chainsaw pawh 11 lai forest department kutah mipuite’n an hlan tawh a ni. PM Modi thusawi hi Arunachal Pradesh Chief Minister Pema Khandu leh an Forest Minister chuan lawmthu sawiin an chhanglet a ni. (CEP e-News)

## FOREST CLEARANCE NEI TURIN SUPREME COUT-IN DMRC-A HRIATTIR

Ni 29.11.2021 khan Supreme Court chuan Delhi Metro Rail Corporation (DMRC) chu Forest Conservation Act, 1980-in a phût angin Phase IV Project atan Chief Conservator of Forests (CCF) and Nodal Officer (FCI), Government of National Capital Territory of Delhi (GNCTD) hnenah Forest Clearance (FC) dil ngei turin thu a pe a. CCF pawh thu pe bawkin, an dilna chu a rang lama MoEFCC-ah pe nghal tur leh SC-in ‘forest’ a sawifiahna zulzuiin ruahmanna siam turin a ti bawk a ni. Metro railway lines kalna tur hi Central Empowered Committee (CEC)-in ni 10.08.2021-a report a thehluhah ‘forest land’ ni lo angin sawi mahse SC Order (12.12.1996) bawhzuia Delhi sorkarin kum 1997-a affidavit an thehluhah metro railway lines-in a paltlang tur hi ‘deemed forest’ vek a ni a, hei vang hian FC nei ngei turin SC hian DMRC hi a ti ta a ni. (CEP e-News)



## ODISHA TIHBawlhhlawh leh TIH DANGLAM VANGIN HREM

National Green Tribunal (NGT) chuan Kurdabahali luikawr, Odisha-a mi tihbawlhhlawh leh tih danglam avangin Jindal Steel and Power Ltd (JSPL) chu Rs.2 crore chawi turin a ti a. JSPL hian Rs.1.5 crore chu Odisha Forest Department hnenah an pe anga, anni hian Kurdabahali luikawr leh a chhehvela thing phun nan pawisa hi an hmang dawn a ni. Rs.50 lakhs chu Odisha State Pollution Control Board (OSPCB) hnenah an pe anga, hei hi OSPCB chuan Kurdabahali lui tui endik (monitor) nan an hmang dawn a ni. (CEP e-News)



## MULTIPURPOSE IRRIGATION PROJECT-AH ENVIRONMENTAL NORMS ZAWM LO

National Green Tribunal (NGT) chuan Godavari lui behchhana thawh Polavaram Multi-purpose Irrigation Project-ah environmental norms zawn loh avangin Andra Pradesh sorkar chu cheng vaibelchhe 243 chawi turin a ti a, he environmental compensation hi Andra Pradesh Pollution Control Board-ah thla 3 chhungin State sorkar chuan a pe tur a ni. Environmental compensation a chawitirna chhan hi tuikawng vanga lei chunglāng luanral nasat vang te, tuikawng laihna leivung ruahmania mumal awm lova pahin nungcha leh ramhmulah nghawng thalo a neih vang te a ni ber. (*CEP e-News*)



## KUM 10 CHHUNGA SAKEI THIH TAM BER KUM, 2021

National Tiger Conservation Authority in December ni 29, 2021-a a tarlan danin kum 2021 chhungin India ramah Sakei 126 zet an thi tih tarlan a ni. Heng Sakei thi 124 zinga 60 lai chu, sapelh ching ho, accident leh chhan dang vanga protected area pawn lama thi an ni.



Kum 2018-a Tiger census-in a tarlan danin India ramah Sakei 2,967 awm anga chhut a ni a. Kum 2021 chhunga Sakei thi zat hi thangkhat lian chhunga kum khat thil thua Sakei hloh nasat ber kum ni a sawi a ni nghe nghe. State hrang hrang zingah Madhya Pradesh chu Sakei hloh hnem ber niin Sakei 42 zet an chan a ni. Hemi dawtah hian Maharashtra chu pahnihna niin Sakei 26 zet an hloh a ni.

Kum 2016 khan India ram hian Sakei 121 lai a lo chan tawh a, kum 2021-a Sakei 126 zet mai kum khat thil thua India ramin a chan leh ta hi thil duhawm loh tak a ni. (*Times of India*)

## PENGUIN ACCIDENT

Pingu Penguin-te hi hi hla tak taka zin kual thin an ni a. Tun hnai maiah hian an zingah thil mak a thleng ve ta fo mai. Tuipua an chettlat hian an chenna Antarctic lamah an kir thin a. Mahse tun hnaiah an chenna atanga km 3,000 laia hla, New Zealand khawmualah tawhsual tawk vang nge, chhan dang hriat lohin an lo lang leh thin a nih chu.



## AMAZON NGAWPI SAVA TE ZIRCHIANNA

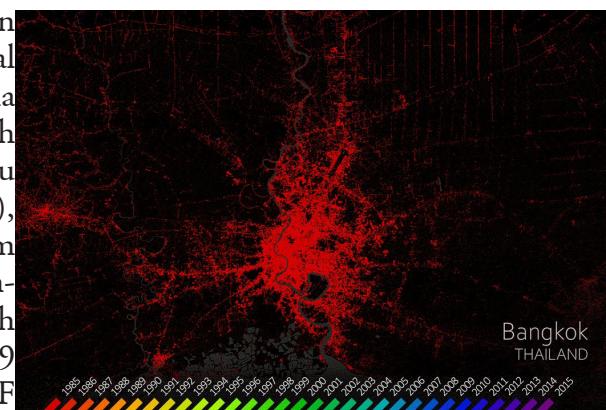
Louisiana State University-a scientist-te'n Amazon ngawpui, mihring tlawhpawh mang lohna hmun zau taka sava chanchin an zirchianna-ah climate change vangin sava te chu an tê tawh a, an taksa rihna pawh a hma aiin a zang tawh a, an thla (wings) erawh a sei tawh thung a ni. Kum 1980 atang khan sava chi hrang (species) 77 zet zirchiangin, sava 15,000 chuang an man te chu uluk takin an zir a ni. Heng sava an zir te hi pêm chi ni lo, he lai ramngaw zau taka cheng sava (resident birds) an ni a.



Sava tam ber chuan chawhrualin an taksa rihna 2% vel an hloh a, sik leh sa danglam vangin an taksa-ah nghawng awmin an chaw zawn dan leh hmuh danah pawh danglamna a awm chho zel a ni. (CEP e-News)

## WORLD SETTLEMENT FOOTPRINT 2019 LEH WORLD SETTLEMENT FOOTPRINT EVOLUTION (WSF EVOLUTION)

Kum 2050-ah chuan khawvelah mihring tlûklehdingawn 9.7 kan awm tawh dawn niin UN Department of Economics and Social Affairs chuan an chhût a. Tunah hian khawpui lamah khawvela mihring 55% zet chengin kum 2050-ah chuan 68% an cheng tawh tura beisei a ni. Khawpuia mihring cheng pun zel dan leh sulhnu uluk zawka chhui a nih theih nan European Space Agency (ESA), German Aerospace Center (DLR) leh Google Earth Engine team ḫangkhawm chuan thlalem hmanga buatsaih geospatial data aṭangin World Settlement Footprint an buatsaih a. An thil buatsaih hrang hrang zinga pahnih — World Settlement Footprint 2019 (WSF 2019) leh World Settlement Footprint Evolution (WSF Evolution) chu COP26-ah khan an phochhuak a ni. (CEP e-News)



## EARTH'S BLACK BOX

Tasmania (Australia) khawthlang lam tuipui kamah kum 2022 hian Earth's Black Box dah tumin Clemenger BBDO leh University of Tasmania-a researcher-te chu an inbuatsaih mēk a. Earth's Black Box hi kahpathir inches 3-a chhaha tuam tur niin solar panels a nei anga, a lenzawng chu Bus tiat vel tur niin kum 50 daih tura ruahman a ni.

Earth's Black Box-ah hian climate change dolētna atana hmalâkna chi hrang hrang vawnthat zel tur a ni a, atmospheric carbon dioxide levels leh average temperatures pawh ni tin record-a vawn that tur a ni. Heng information te hi chhuan lo la awm zel turt'e'n tuna khawvelin hma a lâkna an lo hriat theihna tura tih a ni.



## DAMPA-AH BLUE PITTA

Pitta sava (Buarchawm) hi chi 30 vel awma hriat a ni a. Heng zingah hian Blue Pitta hi a vang ber chi an ni a. India ramah phei chuan an thla hi lak a la ni lo hial mai.

Hetih lai hian Sikkim-ah hmuh a lo ni tawh a, tun maia Indian Birds-in a chhinchhiah danin hetiang pit dumpawl chi hi Dampa Tiger Reserve chhungah an lo awm ve reng tih camera trap thlalak aṭangin hriatchhuah a ni.



He thil hi kum 2014 December – 2015 March thla chhunga camera trap thlalak zirchianna aṭanga hmuh a ni a. An hmuh hun lai tak pawh February, 2015 a ni. Tun tum hi hetiang sava an awm tih hriatna (report) hmasa ber erawh a ni lo. Dampa Tiger Reserve ngawpui hi Blue Pitta chenna hmun pawimawh tak a lo ni ve tlat mai.

## PHÛLRÛL / LEILETRÛL (AMPHIESMA STOLATUM) ZIRCHIANNA THARLÂM

Dr HT Lalremsanga

The Buff striped keelback ti a hriat *Amphiesma stolatum* te hi 3 ft vela sei ni theiin, tur nei lo (non-venomous)

chi an ni. Asia chhim leh chhimchhakah te awmin, tui awm thatna hmun zawl leh awihtlānah te an khawsat thin. Chhuna chaw zawng chi (diurnal) niin ulawng, uchang, sangha, changpat, laiking, rannung, adt.an ei thin. Khawlum leh vawh viau laiin leihnuiah te an tawm bo thin. A nu hi May atang a September bawr velah 5-10 lai te an tui thin.

Tun hnaiah India ram atanga an DNA kan zirchianna hmasa ber atangin Phûrlûl te hian an cox 1 gene-ah haplotype chi 5 (0.844 haplotype diversity & 0.004 nucleotide diversity) neiin, Mizoram ami leh ram dang, China, Taiwan leh London museum a vawn that te DNA nen an inanlohma (intraspecific variation) mean chu 4% (16SrRNA) leh 0.36%(cox 1) a ni a.

An rawng hi hlawm 2-ah then hran theih a ni a, chungte chu: (1.) Erythrostrictus - a sen uk deuh chi, leh (2.) Forma typica - a uk buang chi te an ni.

Erythrostrictus ang chi hi Mizoram khawchhak lam hmun sang lam (eg. Champhai tlangdung)-ah an common deuh laiin, Forma typica ho erawh chu khawthlang lam hmun hniam lamah an common ve thung. Phûrlûl te hi hmun hniam lam, sea level atanga 910 m hnuailam a khawsat thin a hriat an nih laiin, Champhai lamah chuan 1420 m thleng a sangah te hmuh an ni, hei hi khawvela Phûrlûl te khawsakna hmun sang ber a record a ni ta rih.

Authors: Bza Chawngthu, Larz Ralte, Roma Hmar Roma, Lal Muan Sanga, Vabeiryureilai Mathipi

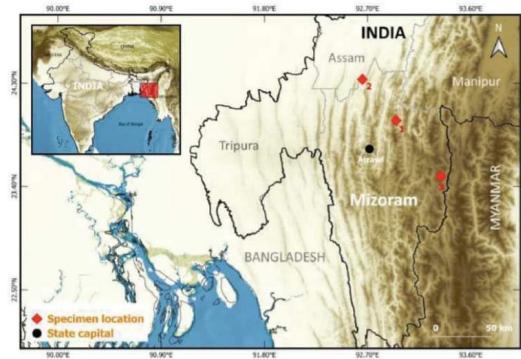


Fig. 1: Map Showing the Sampling Sites (in red diamond) of *Amphiesma stolatum* from Mizoram, Northeast India-  
1. Sawleng; 2. Buhchangphai; 3. Champai Vengtar



Fig. 2: *Amphiesma stolatum*:  
(A) Full Body of Erythrostrictus Variety Collected from Champai Vengtar, Photo by Romalsawma  
(B) Lateral View of the Head and Neck Region of Erythrostrictus Variety, Photo by Thc. Lalhruiatluang.  
(C) Full Body of Forma Typica Collected from Buhchangphai, Photo by Romalsawma.  
(D) Lateral View of the Head and Neck Region of Forma Typica, Photo by Romalsawma

## MIZORAMAH CHHAWKNGHAWL (LIMBLESS AMPHIBIAN - ICHTHYOPHIS) CHI THAR HMU CHHUAK, A HMINGAH BENJAMIN LALREMSANGA (1988-2020) HMINGCHAWI A PHUAH A NI.

Ichthyophis kan tih te hi uchang leh utawk te laichin rul ang tak mai, ke neilo chi (Limbless amphibian) an ni a. Khawvel pum huapah hian 49 species hmuhchhuah ni tawhin, India-ah 15 sp. leh Northeastern India-ah 9 sp. hmuhchhuah an ni tawh a. Kum 2009 khan Delhi University leh Natural History Museum (London) scientist te tang kawpin India hmarchhak pum huap a beihpui an thlak chiam khan Manipur leh Nagaland atangin chi thar (new species) 3, *Ithyophis khumbzi*, *I.moustakius* leh *I.sendenyu* an hmuchhuak a. Hemi kum vek hian Zoological Survey of India (ZSI), Shillong-a scientist te chuan species thar anga ngaih 3 Garo Hills, Meghalaya atangin an hmu chhuak ve bawk a. NE India a heng species 9 zinga species 3 (*I.khumbzi*, *I.moustakius* & *I.multicolor*) te hi Mizoramah an awm ve ngei a ni tih finfiah a ni tawh.

Official journal website:  
[amphibian-reptile-conservation.org](http://amphibian-reptile-conservation.org)



Amphibian & Reptile Conservation  
15(2) [Taxonomy Section]: 198–209 (e288).

A new striped species of *Ichyophis* Fitzinger, 1826 (Amphibia: Gymnophiona: Ichthyophiidae) from Mizoram, northeast India

<sup>1,\*</sup>Hmar Tlawnme Lalremsanga, <sup>2</sup>Jayaditya Purkayastha, <sup>1</sup>Lal Biakzuala, <sup>1</sup>Mathipi Vabeiryureilai, <sup>1</sup>Lal Muansanga, and <sup>1</sup>Gospel Zothanmawia Hmar

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Tunhnaiah Mizoram hmun hrang hrang aṭāṅga chhawknghawl Developmental Biology & Herpetology Lab., Dept.of Zoology, MZU a kan vawn thatte ngun takin an pianphung (morphology) leh chifang (DNA) te kan zirchian leh hnuah chi thar (new species) a awm ngei a ni tih finfiahin American Herpetological Journal, Amphibian & Reptile Conservation (ARC) chuan ni 17.11.2021 hian min lo published sak ta a ni.

He chhawknghawl chi thar hmingah hian kan thlakhlel leh hmangaih êm êm chunga kum 2020-a Lalpa hnena chawl ta, ka u (Hmingthansanga Fanai) fapa (nephew), Benjamin Lalremsanga (Benji) hriatreng nan a hmingah *Ichthyophis benjii*, ti a phuah a ni.

Authors: Bza Chawngthu, Lal Muan Sanga, Vabeiryureilai Mathipi, Gospel-a Hmar, Jayaditya Purkayastha

## ZOFATEN HARHNA KAN CHAN A NGAI TA

Pathianin min pek Mizoram hi ram ḫenkhatte angin pharh diai duai loin, tuipui lian leh zau tak nei lo mah ila, kan ram Mizoram hi Pathianin kan ta tura min pek, nungcha tinrengte nena kan chenna tura min pek a ni.

Nungcha tinreng, chungleng sava tinrengte, ramsa a te ber aṭāṅga a lian ber thlengin he ramah hian Pathianin min dahsak a, kan rama lui lian ve deuh awm chhunah te luia cheng chi sangha kaikuang, chengkawl, tuikep adt. min dahsak a, tlangram mah ni ila kan tlangram kawr hrang hrangah tuihna min dahsakin, pi pu aṭāṅga vawiin thlengin kan tuihnae hi kan Pathian hian min la humhalh sakin, tuihna siamtu kan tih chereu mek chung pawhin a chhunga cheng hringfa (mizote) te tan min la humhalhsak zel chu a nih hi. Siamtu hi a va zahawm em tirawh u.

Hetiang hian Pathianin ram min pe a, ramngaw tha tak takin min hual vel a, kan sawi tawh angin a chhungah nungcha tinreng an chenga heti khawpa nunrawnnan kan suasam chung pawhin min la pemsan fai ḫak lo hi Pathianin zofate min hmangaihzia lantirtu chu a va ni chiang em. Thing leh mau ramhmul chi tin min dahsak bawk. Kan enkawl dan leh kan sawisak dan en hian ramro thlaler chang tawh awm hial a ni a, vawiin thlengin ngaw hmun hring dup hmuh tur kan la neite hi kan Pathian hi a va ḫa em, kan ram luia nungcha sangha, kaikuang, chakai leh chengkawl, tuikep a dangte chenin an tam em em a; mi tam takin hengte hi sum lak luh nan kan hmang nasain kan ṭangkaipui teh ḫin asin.

Mahse kan luite kan enkawl dan hi maw a va chhuan mang rorel ta em! Sangha, chakai kan hraiin bomb leh current hmangin sangngha kan suasam, keiin ka hlawkpui chuan awm tawh lovin rem vek se, vawi khat ka hlawk awlh chuan a pawi lo e kan ti a ang ta ber e. Sava ni se kan hraiin airgun ḫapui kan lei a kan nawm kan makin a suat hna kan thawk ṭan ta mek chu a nih hi. Mizoramah hian a ram neitu ni lo hnam dang, Mizoram chen chereu vek duhtute cheng ta se chutiang mite ch-

Pu Lalrinawma, VCP, Bairabi South

uan duhthalin chenin suamsam se chutiang mite chet dan ang vel chu kan ang ta berin a hriat ta hial mai, kan lui lian leh sei ber Tlawngluiah pawh sangha perh pap pap hmuh tur a awm mumal ta loin, chengkawl tak ngial pawh tunhma angin a tam ta lo an ti ta hial mai, a chhan ni a an sawi chu tur leh current hmanga kan sawisak nasat vang hi a ni ber awm e.

Hawh u, Zofate hi harh ila, Pathianin ram min pek he ram, Mizoram hi a leilung leh a chhunga cheng/thil awm thing leh mau ramhmul chi hrang hrang, nungcha chi hrang hrang, lui leh khawmuala cheng chi hrang hrangte leh sava te hi i humhalh tak meuh teh ang u. Tin, mihring leh thilnung zawng zawngte'n kan nunna atana kan mawmawh leh a lo a kan awm theih miah loh tui hian min ḫinsan mai loh nan tuihna hnar humhalh hi uar thar ila, kan ramngaw hlutzia hriain i humhal tak meuh ang u.

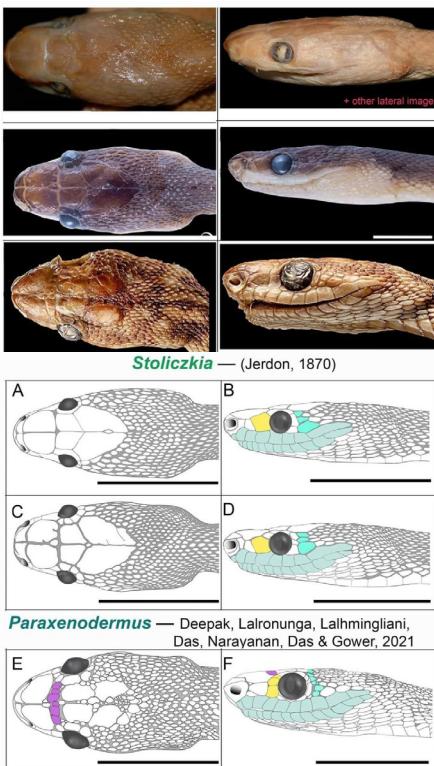
He ram leilung leh a chhunga cheng chi tinrengte a enkawl leh humhim hi a neitu Mizote kutah a dah asin, kan thlangkawr vai leh kan chhak Myanmar kawlho leh Bangladesh muslimte mawhphurhna a ni lo a nia; mawhphurhna kan Pathian nung engkim siamtu hian a pe lo, keimahni a neitu Mizote ngei hi a ni mawhphurhna min pek chu ni, tun ang renga kan kal a, kan nunphung kan thlak loh chuan kan ram hi tun aṭāṅga reiloteah hian tuihna kangchahna leh nungcha chi hrang hrang chenna leh awm tlak lohnaah kan siam ang a, thlaler ramro hi ḫhang leh thar chhuan lo awm zel turte kan hnutchhiahih kan Pathian pawhin min hawisan palh hlauh ang e,

HAWH U, HARH THAR ILA KAN RAM LEILUNG LEH A CHHUNGA CHENG NUNGCHA LEH LUI TE I HUMHALH SAUH SAUH ANG U. KA LAW M E.

## RUL GENUS THAR

Samuel Lalronunga

Kumin (2021) July thla khan rul family vang tak, Xenodermidae hnuai ami "rulphusin" (*Stoliczka vanhnuailianai*) chu Mizoramah hmuh chhuah a ni. Khami research in bul a tan leh a nghawng kal zelah, Borneo (Indonesia) atang rul Genus thar hmuh chhuah a lo ni leh ta a. Mizo researcher ten India ram chhung mai ni lo, ram dang a nungcha zirchi-anna a tha kan thawh thei hi kan lawm em em a. Kan lawmna ber erawh mipui lam atanga puihna tha tak kan dawng thin hi a ni.



Rulphusin kan hmuhchhuah lai khan *Stoliczka* genus hnuai species 3: *Stoliczka khasiensis*, *Stoliczka borneensis* leh *Stoliczka vanhnuailianai* te kha awmin. *Stoliczka khasiensis* leh *Stoliczka vanhnuailianai* te hi India hmarchhak atang a record an nih laiin, *Stoliczka borneensis* erawh hemi te pahnih awmna atang a hla tak, Borneo thliarkar (Indonesia) chauh a awm niin. Heng genus khat hnuai a species awmte, an inzarpharh danah an inkarhlat em avang hian, genus khat an ni tak tak reng em tih zawhna lo piang ta a. Hemi chhang tur hian DNA leh an pianphung te zir chiang leh zualin, he kan zirna thar hian Borneo a *Stoliczka* species awm ve, *S. borneensis* chu India hmarchhak a mi te nen hian inlaichin hnai an lo ni aw zawng lo tih hmuh chhuah niin, chutia orneo a species chu *Stoliczka* a ni thei lo tih a lo chian takah chuan, a awmna tur genus hran siam a lo ngai ta a, genus thar Paraxenodermus-ah amah chauhin a awm dawn ta a ni. He Borneo species hian a laichin hnaih ber chu *Xenodermus javanicus* (dragon snake an tih thin) niin, he genus hming chawiin Paraxenodermus tih hi phuah a ni.

Hetihian, *Stoliczka* genus hnuai pawh species 2, India hmarchhak a mi te chiah hi awm tawh dawn a ni. A chunga thlalakah hian heng rul 3 ho an lu phuhlip danglam dan a hi rawng hmang a thai lan niin. A chung 2, *Stoliczka* genus a la awmte leh genus thar a dah tak (a hnuai ber) danglamna chu chiang takin a hmuh theih. A full paper chhiar duh tan, a journal, Vertebrate Zoology website, a hnuai a link dah ah hian a en theih e.  
<https://vertebrate-zoology.aphahub.com/article/75967/>

## KEIMAHNI

### SUNNA

Heng a hnuai kan thawhpui duhawm tak takte hian an lei nun kalsanin chatuan ram min pansan leh ta, kan ngai em em a, an chhungte Lalpan thlamuan tlat se, tih kan duhpui em em a ni.

- Pu Vanlaltluanga, Forester, North Hlimen Range latu chu patrolling duty laiin tawhsual tawk palhin ni 12.10.2021 khan a thi a, a tuk ni 13.10.2021 khan Kawnpuiah vui a ni.
- Pu HC Lalsawma, Chowkidar, Kawrthah Division ami chu 22.11.2021 khan stroke avangin a thi a, hemi ni vek hian vui liam a ni.
- Pu Lalawia Pautu, Forest Guard, FTS-a thawk lai chu stroke avangin 16.11.2021 khan a thi a, hemi ni vek hian Bethlehem Vengthlangah vui liam a ni.
- Pu Vanlalrema, Peon, R&D Circle ami chu hun rei tak cancer natna a tuar hnuin ni 12.12.2021 khan a thi a. Hemi ni vek hian Bungkawn Vengtar thlanmualah vui a ni.
- Pu Zosangzela, Peon, Champhai Division ami chu December ni 18 khan lungphuchawlin a thi a, hemi ni vek hian vuiliam a ni. Pu Zosangzela hian AIFSM-ah EF&CC Dept, Mizoram tan Badminton-ah medal tam tak a lo la tawh a ni.

### PENSION

October - December thla chhungin a hnuai kan thawhpuit hian Superannuation Pension-in min chhuahsan ve leh ta. Kan uiin kan va ngai dawn em!

1. Pu Liandawla, IFS PCCF (HoD) & Principal Secretary
2. Pu Liankima Lailung, Addl PCCF
3. Pu H Lianmawia, CF(WL)
4. Pu Lallianzuala, DCF
5. Pu K Lalzawmliana, Forest Ranger
6. Pi PC Lalrinpuii, Assistant
7. Pi Rothuami, UDC
8. Pu Lalfakzuala, Forester
9. Pi K Lalthanzami, Forest Guard
10. Pu Lalsawmmawia, Chowkidar

### OFFICER PAHNIH PENSION

Kan PCCF (Hod) & Principal Secretary Pu Liandawla, IFS leh Chief Conservator of Forests (P&D) Pu H. Lianmawia te chu Superannuation pension-in ni 31.12.2021 khan Department min chhuahsan ta a, a kal zelna turah duhsakna kan hlan.

