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Editorial

ASF (African Swine Fever) chuan ziaawm lam a pan hleithei ta vak lo a, nikum aṭangin a thawh thumna (3rd wave) a lo lang leh ṭan a, tunah chuan kan State-in kan buaipui leh ta viau a ni, chuvangin ASF laka kan invenna atana vaccine ṭha a la awm bawk si lovah chuan, hma kan lo lâk ve theihna pawimawh ber chu Bio-Security tih ṭhat hi a ni a, World Organization for Animal Health (OIE) chuan Bio Security chu Ran hri leng laka kan ran vulhte vêng tura hma kan lâk theih pawimawh ber tiin. A sawifiah dan chuan “Ran inkara hri inkaidarh theihna tur kan tihtlem leh a vên nana kan ran vulh dana hma laknate” a ti a. Heng Bio security kan tih zingah hian langsar leh pawimawh ber ni thei chu Fencing (pal hung) hi a ni a, Fencing ṭha taka siam chuan ran damlo leh mihringin a duh duha a kal tlang theihna lakah kan ranvulhte kan vêng dawn a ni. Kan ran vulhte chu an awmna bik kan siamsak ang a, mihring awmna/chêṭ tlatna nen a inhlat thei ang ber ni se la, chung hmun te chu inkalpawh zung zung theih loh nan hung ngei tur a ni. Kan in bul hnaia ran kan vulh (Backyard Farming) te pawh hi a nihna takah chuan hri laka ven an harsa a ni. Heng bakah hian ran in luh hma, gate-ah damdawia pheikhawh chiahna (foot bath) te siam ṭhin tur a ni a, hengah hian tui sen (Potassium permanganate) te pawh a hman theih a, Farm lian deuhah phei chuan pawn lam mi luh dawnin in bualna siam ṭhin a ni. Farm-a lût turte chu an inbual faitir vek hnuah thawmhnaw fai Farm chhunga a hâk tur bika siamte an haktir a, Boot thianghlim an buntir ṭhin bawk a ni. Face mask, gloves leh hair cover etc te pawh an hmang ṭhin bawk. Savaten natna hrik an put kual ve theih ṭhin avangin Farm ṭhenkhat chuan an ran in te net-in an zar hliah ve ṭhin bawk. Chuvangin ASF lêng darh zêlna turah hian vawk vulhtute pawhin tih theih kan nei ṭeuh a. Heng Bio Security tih dan kan sawi ṭhenkhatte hi ṭha taka kan zawm chuan ASF lêng tur lakah nasa takin kan vawkte kan lo vêng ve thei dawn a ni.

CONGO SIGNAL GRASS CHIN LEH ENKAWL DAN LEH A ṬANGKAINA

*Dr. V. Vanneitluanga,
Dr.Amos Vanlalhruaia, Dr.Lalmuanpuia Samte*

Scientific name :
Brachiaria cumbens

Common name :
Signal Grass

Signal Grass hi ran tana chaw ṭha leh pai ṭawih nuam tak, Bawng, Sial, Lawi leh ran dang tan pawha chaw ṭha leh an duh em em mai a ni a. Mizoramah hian a ṭha duh hle a, AH & Vety Department hma laknain Mizoram hmun hrang hrangah chin darh a ni, chin ṭan kumin kum khatah wawi 2 cut a tling hman a, a kumhlun hnu chuan wawi 4-5 a cut theih a ni.

A chin dan tlangpui:

1. *Seed (A chi tuh)* : A chinna tur hmun kha duhthusam chuan leh phut ngei a ṭha a, a harsat erawh chuan kangvarah buh tuh angin tuh theih a ni. Bi khatah a chi 5-8 vel 1'-1½' kar danah

tuh mai tur a ni. A chi hi Acre 1-ah 2-2.5kg vel a tawka ngaih a ni. Lei ṭha Urea emaw Bawng ěk emaw pĕk tur a ni a, Urea hi Acre 1-ah Quintal 1 a tâwk vel a, duhthusam-ah chuan a bi bul tinah phul ni se Urea pawh a hek lo deuh.

Grass chu a lo ṭiak a 4" vel a lo nih chuan a bula hnim dangte chu thlawh fai tur a ni a, a hnu lamah chuan amah hian hnim dangte chu a dip ral tawh mai a ni. Chin ṭan kum hian August/September vel-ah a cut ṭan theih a ni.

2. *A bul phun (Root Stump/ Slip)* : Hei hi a bul kara phun leh a ṭiak phun sawn a ni. Phunna tur kha sam faia hal hnuah khur ½' vela zau 1'-1½' dan-ah laih tur a ni. Tah chuan lei ṭha nen lei chawhpawlh tur khur khatah hian bul (root slip 5-

8 vel zel phun tur a ni. Phun hunah hian ruah tui a awm chuan May thla hi duhthusam ber a ni a, June thla pawh a pawl lo phun kum hian vawi 3 cut a tling hman thei, ram hectare 1-ah hian Root Slip/Root stump 50,000-70,000 vel phun theih a ni.

Gongo Signal Grass hi a kum leha a hrana chin/phun a ngai tawh hranlova, hmun thawl lai deuhah tihbelh mai tur a ni, ram leilung tha lo leh bua deuhah pawh ngun taka chin chuan a tha duh hle a, chuvangin ram awitlan deuh leichhe hmunah pawh hlawhtling takin a thar theih a ni.

Congo Signal thatnate:

1. Pai tawih nuam tak a ni a, ranin an ei za zelah 50% - 80% pai tawih ang an ni

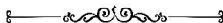
(50 - 80 % total digestibility).

2. Signal Grass hian chaw tha tam tak protein (tihrawl siamtu), vitamin leh mineral chi hrang hrang, a bikin calcium leh phosphorus te a pai tam. Heng mineral calcium, phosphorus leh nitrogen te a pai that avang hian bawngpuiah milk fever a titlem nia hriat a ni.

3. Ram lei that lohna hmunah pawh heng signal grass te hi tha taka chin theih an ni.

4. Ran ei sen loh kan lo thar a nih pawn dah ro (Hay) a vawn that theih a ni a, hei hi bawng chaw tha tak hnim hring awm loh hnuah a la tling a ni.

5. Signal grass chawrno hi vawkleh ar tan pawh chaw tha a tling a ni.



**AFRICAN SWINE FEVER (ASF) AVANGA VAWK THI
RUANG SAWNGBAWL DAN LEH PHUM DAN**

1. Khur thuk taka laih tur.
2. Chinaiin vawk ruang phul/leih leh tur.
3. Leivunga chhilh leh hnuah, a chung lângah chinai bawkin khuh leh tur.
4. A ruang sawngebawltuin shoe cover leh gloves a bun tur a ni.
5. Shoe cover leh gloves te hi khur chhunga phum tel tur. Chumi hnuah kut fai taka sil tur a ni.
6. Ruang phurhna motor emaw ruang zâwnna hmanrua disinfectant or sahbona tihfai thin tur.
7. Disinfectant hman turte:
 - a) 2% Calcium Hydroxide (Chinai)
 - b) 2% Sodium Hydroxide Caustic Soda)
 - c) Detergent (Sahbon – Surf, Mr. White, Tide etc...)
 - d) Phenol Substitute.
 - e) 2-3% Sodium or Calcium Hypochlorite (bleach leh bleaching powder)
 - f) Iodine Compounds.

TÛN HMÂ, TÛN HMÂ DEUH, TÛN, TÛN HNU VETERINARY, MIZORAM-AH

Dr. C. Sangnghina

Former Director, A.H & Veterinary Deptt.

Veterinary kan tih hian Veterinary dinhmun leh heta a thawktute huamtir mai ang aw.

Kumin 2023 April thla khan ka phone contact list a awm lo No. 7099014118 aṭangin call ka dawng a, kan la a, "Tu nge?" tiin aw chang fel fawlin, ka mi ze pangngaiin kan ti a, a niin, "Ka pu, C. Rinawma 4th year Student AMVMS hruiatu, Khanapara awm ka ni a" a rawn ti a. "Eng thil nge ni ta?" kan ti a. Ani chuan hawihhawm takin kumin 2023 kum tawp lam hian he kan AMVMS din champha kum 50-na Aizawlah hman kan tum a, chumi atan chuan magazine/souvenir chhuah kan tum a, article min ziahsak thei ang em? I article ziah 1986-a mi, in zirlai leh he pawl din dan te, Vety. Doctor-te Mizoram

sawrkhar hnuaia hlawh an phu tawk, medical doctor-te nena intluktlân theih nana inbeih dan i ziahte kan lo chhiar a, a ṭhain a ngaihnawm kan ti a, tih thu te a rawn sawi a. Chu bakah he pawl din ṭan ni/date, a thla te min hrilh theih chuan a ti bawk a. A ni chiah chu sawi a har a, October 1974 ni tain ka hria tiin ka chhâng a.

Ni e, tûn hma khan zirlai pawl angin veterinary student te kha a awm lo a, Assam state hnuaia District pakhat mai kha kan ni a, zirlai pawh an tam ngai lo. Ngen ka nih angin sawi tur tam hle mah se, kan ziake poh a ni ang chu, tawi deuhin.

Tûn hma: Veterinary-a Mizo zir te chu a chipchiar chuan keini ang chuan kan sawi thei lo ang a. Kan hriat

ve theih chin sawi ta ila. Mizo Veterinary zir hmasa leh thawk hmasa ber chu Dr/Pu P.S. Dahrawka niin, kum 1914-1918 chhung khan West Bengal Veterinary College-ah a zir chhuak a. Ani hi Indopui pakhatna, 'World War-I' ah Matric a pass zawh khan indopuinaah War Service a zawm a, indopui a zawh hnu khan he indopuia tel te chu a duh tan 'Special advantage' duhsak bikna pek an ni a. Ani hian West Bengal Veterinary College a zawm ta a. Degree an pêk pawh diploma G.B.V.C (Graduate of Bengal Veterinary College) tih a ni. He degree an pêk lai hian an hming bula Doctor (Dr.) title dah tur hian tih an ni loa hriat a ni a. Chuvangin tûn hnu thleng hian a hming ziahnaah pawh P.S. Dahrawka tih a ni thin. Hemi hnua a diploma degree, G.V.Sc (Graduate of Veterinary Science) nei te, Dr. Zokhuma leh mi dang

Assam Veterinary College-a zir chhuakte chu an title, hming bulah Dr. (Doctor) dah zêl a ni ta a. P.S. Dahrawka hian 1925 October thlaah VAS (Veterinary Assistant Surgeon) hna Aizawlah a zawm a ni.

Khawvel Indopui pakhatna (World War-I) vel lai khan British sawrkar chuan Mule (Sabengtung) platoon khat vêlin Assam Rifle, Aizawla awm chu a rawn thuam a. Hemi enkawl nan Veterinary Dispensary chu Chhinga Veng, tûna Chhinga Veng Biak In dinnaah sak a ni a. VAS quarter pawh tûna an YMA Hall dinnaah sak a ni a. Hei vang hian Pu P.S. Dahrawka pawn G.B.V.C graduate a nih khan he post-a dah a lo ni ta zêl a. Ama hma hian Mr. Kruvi Angami Naga chu Mizorama Vety Doctor thawk hmasa ber niin, he hmun hi October 1917-ah a luah man a. A kum leh December 1918-a sawn (transfer) niin Mr. Hucha

Savio Angami chuan June ni 9, 1919-ah he post (hna) hi a rawn luah ve leh a. Ani hi Mizoramah kum 5 chhûng zet awmin he hna hi a vuan a. A awm chhung hian thingtlang khua te pawh a fang peihin a tlawh peih hle a, mite hriat pawh hlawh hlein, "Ran Doctor" tia hriat lâa a ni bawh. Hêng a zin velnaah hian mihring pânchhe vei dam thei loa an ngaihte pawh tihdam-sak a nei nual thîn niin an sawi bawh. Mizorama a awm chhûnga a fapa piang pawh a hmîngah "Zopianga" a phuah a, Zopianga hi Nagaland-a Chief Secretary hmasa ber a ni nghe nghe. Hman kuma Mission Veng thlanmual hlui, tûna an YMA Hall thlang ka kal tlang tûmin thlânlung pakhat ka hmuh inziak chu Dr. AO (Naga), Veterinary Doctor tih a ni a. He Dr. AO-a hmîng hi Dr. Zokhuma sawi kha ka hre thîn a. Ani hi Indopui

II-na lai vela Aizawla boral a nih hmêl.

P.S. Dahrawka hnua Mizo Veterinary Science (Vety Doctor) zir leh hmasa ber chu Dr. Zokhuma a ni a. Khawvel Indopui (World War-II)-a Japan a lo tlâwm a, indo a tawp khan, Assam sawrkarin Nowgong-ah kum 1948 khan Assam Veterinary College a din a. Dr. Zokhuma hi he college-a lût hmasa ber zinga mi a ni. He college hi a kum leh 1949-ah Gauhati-a sawn chhoh a ni a, a hmunah chuan tûna Directorate of Vety. Deptt, Govt. of Assam awmna hmunah a ni a. Kum 1951-ah 3rd year diploma, G.V.Sc & A.H a zo a, Assam sawrkar hnuaiah VAS (Veterinary Assistant Surgeon) hna Silchar-ah kum 1951 July thla-ah a zawm a (He a hna zawm kum hi 1950-ah tiin Dr. R. Kapthuma article, 1st Report of Mizoram State Veterinary Council-a ziah

kha tihsual palh a ni ang). He hna a zawm kum leh thla hi kan zin dun hun laia min hrilh niin, a boral nia a chanchin ziah naa finfiah a ni. VAS (Veterinary Assistant Surgeon) title hi kum 1928 daih aṭang tawha Vety doctor hna zawm thar te nihna (Designation) a ni. Medical doctor-te pawh Assistant Surgeon tih niin, tûn hnuah Medical Officer, Veterinary Officer kan lo ti ta a ni. Ani hi he college-a batch hmasa ber a ni.

Dr. Zokhuma zir zawh hnu hian Dr. Lianzova Khiangte, Dr. R. Kapṭhuama, Dr. Zolawma, Dr. Lalsawma Hrahsel, Dr. Thanzuala ten dawt lehin, matric passed hnua kum thum diploma course-a zir an ni a. An zir man kum leh zawh kum hi chipchiara ziah vek dawn chuan a sei dawn a, ziaḱ vek lo mai ila. Dr. R. Kapṭhuama leh Dr. Zolawma te diploma zir zawh kum hian degree course B.V.Sc & A.H chu he

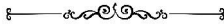
college-ah hian hawn a ni a, anni pahnih hian degree course/subject chu zirin an passed a, B.V.Sc & A.H degree, 1958-ah nei an ni. Assam Veterinary College, Khanapara a degree course a nih aṭang khan, he course chu matriculate hnuah kum 5 zir a lo ni ta a. Hemi course-a Mizo zirte chu Dr. Rohmingthanga, Dr. Siamliana, Dr. Liansanga, Dr. Chalruala, Dr. C. Lianmawia, Dr. Lahnuna te an ni (Hmaiḱ palh awm em lo ang chu maw).

Hemi hnu hian India ram University zirna kalphungte thlak danglam niin, B.V.Sc & A.H course zir tur pawhin P.U. Sc. (Pre-university Sc.) passed ngaia siam a lo ni ta a. P.U. Sc. passed hnuah kum 5 zirin he degree hi a neih theih ta a. Mizo zinga he course P.U Sc. passed hnua zir zo hmasa ber chu Dr. B.C Thanṭhuama a ni a, kum 1973 August-ah a zir zo a, a passed chhuah hmian thla

hnih vel kan inhrawn hman a. Ani hnu hian Dr. Sangzuala niin kum 1973-1974 khan kan awm dun hman a, kum 1974-ah Dr. Biakmawia a rawn lut ve a. Hemi hnu lam chu a tân hnu tawh êm mai, ziaak tawh lo mai ang. He course P.U Sc. passed hnua zir theih a nih khan, Mizo, he

Veterinary College-a lût zâwk, Medical College leh Engineering College-a seat hmuh leh vanga insawn an awm nual a. He college kan sawi hi Assam Veterinary College, Gauhati a ni tih hria ila. Tân hnua India ram chhunga Veterinary College hrang hranga zir pawh an lo awm ta si a.

(Chhunzarwm leh tur)



SIAL TOBUL (THE ORIGIN OF MITHUN)

Dr. Lalthansanga Khiantge
MVSc (Animal Genetics & Breeding)
Asst Director (P&M)

Mizo ranvulh zinga pawimawh em em pakhat chu sial hi a ni. Kan pi pute hun lai khan mi hausa tehna chu sial ngah leh ngah lohah a ni deuh ber ti ila kan sawi sual awm lo ve. Nupui man atan te an hmanġthin a, se chhun leh khuangchawi ni bâkah thil dang tam takah sial hi an lo hmanġtangakai em em ġthin. Liandova te unau thawnthu aġtang han hman lai kan pi leh pute nunah sial vulhin awmzia a neih thui dan chu kan hre thei awm e.

Sial hi bawng lam chi chhungkua Bovidae an tih zinga tel niin a scientific name chu Bos frontalis a ni a. Hmun sâng deuh, tuipei zawl aġtanga metre 3000 vel bâwra sângah an cheng ber. A puitling hi 400-600 Kg vela rit a ni thei a, a note piang hlim hi 20 Kg vel

bawr a ni tlangpui. Ran mawi tak niin a lu hi kil thum (a hmui leh a ki pahnih) nei ang deuhin a awm a. A ki hi pawn lamah a chhuak zawngin a to a, a mawi hle baw. A rawng hi a dum lam a niin a ngal zawn hi a var tlangpui a, a tuipei var te an ti ġthin; sial râng te pawh a awm ve baw. Bawng angin a nghawng hnuai lamah irfual (Dewlap) hlai vak lo neiin a dârah erawh thlukvum aiah tihrawl chhah tak a nei thung. Sial hian ramhnuaiah an hun tam ber an hmanġchung hian ran zaidam tak an ni a. A khât tawka a neituten chi an liah (pe) ġthin vang hian mihring lakah an zaidam te pawh a ni thei awm e.

Khawvel pumah hian sial hi Asia khawmualpuiah

chauh hmuh a ni a. India ramah hian hmarchhak state pali heng Mizoram, Manipur, Nagaland leh Arunachal Pradesh-ah te chiah hian sial a awm a. Sial hi chi (strain) liah then niin an awmna state theuh hming an chawi hlawm a. Kan thenawm ram thenkhat China, Bangladesh, Myanmar, Bhutan leh Thailand velah te pawh hmuh tur a awm nia sawi a ni. Sial tobul hi Chiang taka sawi a har hle mai a. Ngaihndan chi thum a awm thei a, chungte chu:

1. Ramsial/Sele (Gaur) thlah dik tak a niang: He ngaihndanah neitute chuan sial (*Bos frontalis*) hi mihringin Sele (*Bos gaurus*) an khawi thlah kal zel aṭanga lo piang chhuak niin an ngai a. Sele nen hian inanna tam tak a nei a, a pawmawm thawkhat viau. Amaherawhchu, sele hi India ram bakah khawvel hmun dangah te pawh a awm nual si a, chung

ramah te chuan sial a awm vek si lo. A mi chengten an khawi ngam ve lo han ti dawn ila bawng leh lawi te an lo khawi ngamin an lo vulh ve fur tho si.

2. Sele leh bawng thlah pawlh aṭanga lo piang a ni ang: Hemi ngaihndanah hi chuan Sial hi Sele leh bawng (*Bos indicus*) thlah pawlh (hybrid) a nih rin a ni a. Mahse, mak deuh chu India ram state dang, sele awm venaah pawh bawng a tam a, sial a awm chuang si lo.

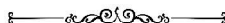
3. Ram bawng chi khat mang (Extinct) tawh thlah a ni ang: Hemi ngaihndan neitute ve thung chuan tun hmaa awm thin, bawng lam chi tho, tuna mang tawh thlah niin an ngai. Ngaihndan pakhatna ang deuh khian mihringten an khawi ngamho thlah lo kal zel aṭanga sial hi lo piang chhuak ta niin an ngai a. Amaherawhchu, a thlahtu tur awm ang han sawi mai tur hriat a ni bawk si lo.

Khing ngaihndan hlawm thum zingah khian a eng emaw ber khi chu a dik ngeiin a rinawm a. Kum 2013 khan Baig-a leh a hoten mitochondrial DNA atanga an lo zir chianna an tlangzarhah chuan Sial thlahtu hi Sele ni lovin ram bawng chi hran, tuna mang tawh niin an pawm a. Sele leh bawng thlahpawlh chungchang erawh chu zir chianna mumal a la awm lo a nih hmeh.

Kum 2017-a Lung-zarhtum khuua Sele lo tla lut khan bawng (Bos indicus) lakah chi a thlah nia sawi a awm a. A thlalak te pawh social media lamah te hmuh theiha tarlan a ni a. Hei hi sial lo chhuah dan tobul zirna chungchangah nasa takin a tangkai a rinawm a. Mizo zingah mi thiam tam takte hi sawrkar pawhin a chhawr tangkai

dan thiam se la, vai leh saphovin research paper tha tak tak zia kan ran leh ramsate hi min hmansak i phal bik lo ang u. Sial tobul ngaihndan pahnihna khi a dik reng em tih pawh hunin a la hril zel turah ngai ang.

Eng pawh nise, India hmarchhaka sial awmna state pali zingah Mizoram kan tel ve hi Pathian malsawmna ropui tak a ni. Amaherawhchu, heng state pali zingah hian Mizoram ah sial a tlem fâl hle a, an mang lo chauh a ni ber e. Hetiang ran mawi leh zaidam, Mizo hnam ziaa hmun pawimawh tak luahtu, khawvel hmun tlem têah chauh awm lehngal kan lo nei ve hi a lawmawmin a hlu a. A mang mai loh nana humhalh hi a Mizo hnam pum pui mawhphurhna a ni.



ZOONOSSES

Dr. Lalnunfeli Tochhawng

Sr. Veterinary Officer

Veterinary Polyclinic Hospital, Khatla, Aizawl

Zoonoses tih ṭawngkam hi Greek ṭawng aṭanga lâk a ni a. Zoo tih chu ransa tihna a ni a, Noses chu natna tihna a ni. Kum 1959 ah WHO leh FAO te chuan zoonoses chu ran leh mihring inkaichhawn theih natna tiin an hrilh fiah a. Zoonoses hi 200 chuang a awm a. Mihring natna hmuh chhuah tawh 1461 zinga 60% aia tam mah hi ran aṭanga inkaichhawn an ni. Chuvangin ran leh mihring nunna pawh a suat hnem hle tawh a ni. Sa, bawngnhnute leh artui thar chhuah bakah savun aṭanga thil siamna lamah pawh zoonoses hian hlohna nasa tak a thlen a ni.

Ram hrang hrangten inkal pawhna chungchangah leh insumdawn tawna lamah hma kan sawn hle a. Mahse, hei hi Zoonoses

natna theh darhtu nasa ber kan ti thei ang. Tin, mihring hriselna leh hausakna innghahna bul pui ber pakhat chu ran hriselna hi a ni. Natna zirchianna hmun 'The Project directorate On Animal Disease Monitoring and Surveillance (PD-ADMAS)' chuan hmahlir (Vision-2025) a nei a, chu chuan India mipuite hriselna hmachhawp a siam a. Hmanraw thar ṭha leh changkang tak takte hman ṭangkai dan tur ruahmanna te a siam a. Vision 2030-ah ve thung chuan mihring hriselna hi ran hriselnaa inngat a nihzia a thlur bing thung a ni. India ram hi tui lian leh khawkheng tuar nasa tak ram kan nih avangin zoonoses chi hrang hrang pawh a tam hle a. India ram ril zawka

zoonoses tam takte chu vanneithlak takin Mizoramah hmuh an ni lova. Amaherawhchu, natna thenkhat, Scrub Typhus, Toxoplasmosis leh Cysticercosis etc. te hi Mizoramah pawh hmuh chhuah an ni. Kum khat chhung lekin (May 2014 to May 2015) Scrub Typhus avangin mi sawmpakua lai an thi a ni. (Source: Medical record, Civil Hospital, Aizawl, Mizoram). Hei hi Civil Hospital, Aizawla chhin-chhiah chauh a ni. Mizoram chhunga Hospital hrang hrangah pawh he natna avanga thi hi sawi tur an awm nual bawk a ni.

Zoonoses te hi chi hrang hrangin a then theih a. A hmasa berah chuan a thlentu natna hrika zirin e.g. Bacterial zoonoses, Viral zoonoses, Mycotic zoonoses, Parasitic zoonoses leh Prion zoonoses te an ni. A dawtah chuan, inkaichhawn dan kawnga zirin e.g. Direct zoonoses,

Cyclo zoonoses, Meta zoonoses, Sapro zoonoses te an ni. Chubakah natna lang chhuak emaw lang chhuak lem lova paitute an awm leh bawk a ni.

India rama zoonoses langsar zualte chu, Avian influenza (H5N1), Brucellosis, Anthrax, Plague, Leptospirosis, Rickettsial, Rabies, Arboviral disease, Leishmaniasis, Taeniasis, Cysticercosis leh Toxoplasmosis te an ni.

Tun lai natna tihbaiawm tak Ebola natna hi khawvela zoonoses natna hlauhawm ber a ni a. He natna hi zawng (monkey) leh bak (fruit bat) atanga kaichhawn niin mi thiamte chuan an sawi. Hriat chhuah chinah March ni 14, 2014 atanga vawiin thlengin mi 11,193-in an thihpui tawh a ni. Tin, Hanta Virus complex-in a thlen natna HFRS (Hemorrhagic Fever with renal syndrome) hi kum 1951-ah

Korea-ah hmuh chhuah a ni a. China-ah pawh a darh zauvin an manganpui hle. He natna hi Asia leh Europe rama Vety-a hnathawkten an kai nasa hle. Tin, Prion natna pawh North America, Europe leh Asia-ah a darh nasa hle a, UK-ah pheichuan he natna vei zaa zain an thihpui hial a ni. (Source: Merk Veterinary Manual 9th Edition).

Tun kum zabi sawmhnih pakhatnaah hian mihring kan pun chak ang bawkin zoonoses te hi an pung chakhle mai a, hemi venna kawnga ram hrang hrangten hmalakna atana an hman e.g. Molecular biology, Biotechnology, Nanotechnology, Information technology leh Geospatial technology te pawh tihphuisui zel an ni.

Kan sawi tâk ang khan zoonoses natna langsar tak tak sawi tur tam tak awm mah se, kan sawi kim vek seng dawn lova, chuvangin

a langsar zual tlem i lo tarlang ila:

1) Avian Influenza (Bird flu H5N1) : India ramah pawh ni 18 February, 2006 khan Nava-pur, Maharastra State-ah hmuh chhuah a ni a. Avian Influenza hi kum 1900 hma lam daih tawh khan ar tam takin an lo thihpui tawh a ni. Khawvel ram 16 atanga WHO-in a report-ah chuan kum 2003 March leh 2015 March inkarah he natna vei mi 826 hmuh chhuah niin mi 440-in an thihpui a ni. He natna laka invenna awmchhun chu Avian influenza natna kai ar suat emaw, a dam lai a Vaccine pêk emaw hi a ni.

2) Rabies: A natna thlentu hi RNA virus a ni a. India ramah kum sangnga kal taah khan an lo hmu chhuak tawh a ni. Mihring-ah thihna nasa tak a thlen mêka ni. India ram hi rabies natna hian min chenchilh reng a, he natna tihrem hi thil har tak niin a lang.

Chuvangin ui vulhtuten vaccine pêk kan ngai pawimawh tur a ni. Keini Mizote pawhin kan ngai pawimawh sâwt hle a, June 2014 aţanga June 2015 chhung hian State Vety Hospital, Aizawlah ringawt pawh antirabies vaccine hi ui 3440-ah chiu tawh a ni a, Mizoram hmun hrang hrangah eng emaw zat chiu a ni bawk.

3) Scrub Typhus: He natna thlentu hi Orienta tsutsugamushi a ni a. Kum 1899-ah Japan-ah hmuh chhuah a ni. "Antibiotics" hmuh chhuah hma chuan he natna avang hian mi tam takin an thih phah thin a. Scrub Typhus hi India ramah pawh a darh nasa hle a, a bikin kum 2003-2004

inkar leh kum 2007 chhungin Himachal Pradesh, Sikkim leh Darjeeling-ah a lêng nasa hle a ni.

A tawp berah chuan ran aţanga inkaichhawn theih natna hian khawvel hmun tam takah mihring nun phung a khawih buai nasain thihna pawh a thlen nasa em em a. Ransa leh ran vulhah hlohna nasa tak a thlen bawk a ni. Zoonoses chungchanga hriat tur pawimawh tak tak mi thiamten an sawite hi kan ngaih pawimawh a, kan zawm tlân theuh hi a pawimawh hle a ni. Chutianga kan tih theih chuan Zoonoses avanga harsatna leh thihna kan tawh tam tak te hi kan lo pumpelth theih dawn a ni.



KEIMAHNI

PENSION : (Ni 30.3.2024 thlenga pension-te)

1. Dr. F. Laldawla,, Jt. Dir. (Poly)
Veterinary Polyclinic Hospital.Aizawl.
2. Pi Lalrinpuui, DD (Adm),Directorate AH & Vety
3. Pu Liandinga Royte, LEO,RAHC,Serkawn
4. Pu H. Zokunga, LEO, Lungpuizawl, Lunglei
5. Pi T.Zoramsangi, Assistant, LH Section
6. Pu Lalrinzuala, SDV, RAHC, Hlimen
7. Pu Lalnoela, IV Grade, State Vety Hospital, Champhai

PROMOTION

1. Dr. R. Lalmakthanga. Senior Grade to Junior Administrative Grade of MAH &VS and posted from DAH&VO, Serchhip to Jt. Dir, Southern Zone
2. Dr. Saipari Sailo, Junior Grade to Senior Grade of MAH & VS and posted from Vety Officer, Durtlang to Senior Vety Officer, Mamit

TRANSFER

1. Dr F. Lalramhluna, Jt. Dir. Southern Zone to Jt. Dir.(LH)
2. Dr. KVL Rochharzela, Jt. Dir. (LH) to Jt. Dir. (Poly)
3. Dr. F. Vanlalruata, DAH&VO, Siaha to DAH & VO, Mamit
4. Dr. John Lalhnuna, DD (L&E) to DAH&VO, Siaha
5. Dr. H. Vanlalmangaihzualla,
DAH&VO,Mamit to DAH & VO, Saitual
6. Dr. H. Vanlalrawna,
Sr. VO, Serchhip to DAH & VO, Serchhip
7. Dr. V. Vanneitluanga, DAH & VO, Saitual to DD(L&E)
8. Dr. C. Neihthangpuui, Sr. VO Siaha to DD(VPH)
9. Dr. Biaklianzualli, DD (VPH) to Sr. VO, Serchhip

CHANCHIN LAWRKHAWM

Minister-in AH&Vety Department hma lakna leh vawk leh bawng vulhtute a tlawh

Ni 24 January, 2024 khan Pu C. Lalsawivunga Hon'ble Minister AH & Vety Dept chuan Aizawl tlâk lama AH & Vety Dept hmun pawimawh leh hma lak mêkte a tlawh a. Animal Feed Plant, Tanhril leh ZPDS INBRO Poultry Hatchery Farm Tanhril te a tlawh hmasa a, Ranchaw thar chhuah chungchangte sawihoin, ZPDS-a hna kal mêkte a en bawka, Nucleus boar Semen Station, Lawngzawl leh Feed Plant leh Godown, Lengpuia sak mêkte a en bawk. Ni 25.01.2024 khan Sihphir, Lungdai, Serkhan leh Nisapui khuaa Vawk leh Bawng vulhtute kawmin an dinhmunte enfiah leh hre chiang turin a tlawh bawka, Kut hnathawktute lam hawia hma lak hi

sorkar thil tum a ni tih sawiin Bawngnhnute leh Saa Mizoram kan intodelh theih nan Sorkar kutke pawimawh ber chu Ran vulha ei zawngte an ni a, Ranvulhtuten an harsatna hrang hrang an lo thlente hriatpuuin an harsatna nasa ber zingah ranchaw man to thin chungchang chu Sorkarin theihtawp chhuah an tum thu a sawi bawk. Minister hi Pi Lalzarmawii IAS Commissioner & Secretary AH & Vety Dept, Dr. C. Lalrintluanga, Director leh Department officer-ten an tawiawm a ni.

A-Help Mizoram, Lauching neih a ni

A-HELP Launch Event for Mizoram hi ni 8 March, 2024 Friday chawhnu dar 1:00 khan Dawrpui Multi-purpose Hall, Aizawlah neih a ni a. He programme hi Pu C. Lalsawivunga, Hon'ble Minister, Animal Husbandry and Veterinary

Department, Mizoram chuan hawngin Central lam hotute pawn an hmanpui a, Tin, MzSRLM leh A.H & Vety Department, Government of Mizoram aiawhte pawh telin Mizoram hmun hrang hranga Livestock CRP leh SHG member mi 250-ten an chhim bawk a ni. A-HELP (Accredited Agent for Health and Extension of Livestock Production) hi Central level-a Deendayal Antyodaya Yojana-National Rural Livelihoods Mission (DAY-NRLM), Ministry of Rural Development (MoRD) leh Department of Animal Husbandry and Dairying (DAHD), Government of India ten thawhhona thuthlung Memorandum of Understanding (MoU) ni 1 September, 2021-a an ziah atangin a intan a. He hma lakna kal tlang hian DAY-NRLM hnuaia Self Help Group member hmeichhia Livestock Community Resource Persons (LCRP)-a

thlan chhuahte chu he program kal tlang hian tangkai taka hman tum an ni. He hma lakna hnuaiah hian Mizoram atangin Master Trainers tur Vety Department aiawh Doctor 4 leh MzSRLM aiawh mi 2 thlan chhuah ten ni 22 -28 January, 2024 khan training an pal tlang tawh a, hemi hnu hian Master Trainers ten Mizoramah LCRPs thlan chhuahte chu 16 days training an pe chhawng ve leh ang. LCRPs te hian exam te an paltlang hnuaiah A-HELP certificate an dawng thei dawn a ni. A-HELP Guideline-a inziak ang hian State level A-HELP training senso hi Vety Department lamin NDDB, Anand kal tlanga a dil chhuah tur a ni a. Batch khatah hian mi 25 zel training pek tur a ni a. Hemi atan hian MzSRLM hnuaia LCRP mi 25 thlan chhuah Serchhip leh Kolasib District ami ten training hi an nei dawn a ni. A-HELP

certificate dawngte chu A.H & Vety Department leh MzSRLM ten tangkai takahman zui tur a ni a. Thlatina an hnathawh tur chu Vety Department in guideline zulzuiin a duangang. Training hi a tahtawl in batch dang pawh la neih chho zel tum a ni a.

TRAINING

☛ Ni 22-28 January, 2024 khan *"Implementation of A-Help"* training-ah Dr. Charlie C. Chawngthu V.O Lawngtlai, Dr. Zohlmpuia VO(DI&S), Dr. M.S Dawngliana V.O N. Vanlaiphai, Dr. John Beshalai Khitte VO, Siaha leh te chu NDDDB Hq, Anand, Gujarat an kal.

☛ Ni 7-9 February 2024 khan *"Training on Implementation and Monitoring of Government Schemes for Group A officers"* chungchang training-ah Dr. Zohlmpuia VO (DI &S), Dr. Jonathan Lalremsanga V.O (Poly), Dr. Lalthansanga khiangte Asst

Dir (P&M) te ATI, Aizawlah an kal.

MEETING

☛ Ni 7 February 2024 khan Dr C.Lalrintluanga of 21st *Livestock Census, New Delhia* neihah an kal.

☛ Ni 30 January, 2024 khan Dr Lalfamkima DD (VE&E) chu *Academic Committee Meeting, SAMETI, Directorate, Agriculture Department-* ah a tel.

☛ Dr. Rosangzuali Chhakchhuak V.O (Poly) leh interneess te hoin ni 1 February, 2024 khan Aizawl Zoological parkah Sazuk thi an Post Mortem, Dr Rsi hian Veterinary Polyclinic Hospital-a a hna bakah Zoo hi a vil bawk a ni.

Inthlang thar

☛ Ni 12 March, 2024 khan Mizoram State Veterinary Council Hruaitu thar thlanna neih a ni a, heng mite hi Hruaitu thar thlan chhuahte chu an ni :

1. Dr. Lalremliana
2. Dr. Robert Rualthankhuma
3. Dr. Thangzadinga
4. Dr. Lallawmzuali Ralte

☛ AH & Vety Driver Association, Mizoram chuan Ni 3 February, 2024 khankum 2024-2026 chhung atan hruaitu thar thlanna Mizoram State Veterinary Council Hall, Khatlaah neih a ni a, Hruaitu thlan chhuahte chu.

President :

Pu Vanlalvula

Vice-President :

Pu Zarzoliana

Secretary :

Pu Lalfakzuala (Valtea)

Asst Secretary :

Pu Lalchungnunga

Treasurer :

Pu Lalbiakzuala (Lba)

Fai lawmman la

75th India Republic Day lawmna ni 26 February, 2024 khan Faina hapta leh Mizoram khawpui Fai inelna 2023 denchhenin DAH&VO, Lunglei chuan

Lunglei District office faiber lawmman “Pakhatna” an la a, hemi rual hian Veterinary Dispensary, Vairengte pawhin Vairengte khaw chhung office faiber lawmman “Pakhatna” leh check gate faiber inelnaa hma la tha “Pahnihna” an la bawk a ni.

☛ Trainers Training on Artificial Insemination in cattle “Advance Techniques for Augmentating Fertility and Artificial Insemination in Farm Animals” chu ni 13-17 February, 2024 khan State Implementation Unit (MZ), NPCBB, AH & Vety Department, Government of Mizoram leh Department of Animal Reproduction, Gynaecology and Obstetrics, CVSC, CAU, Selesih tang dun chuan an buatsaih a. He training-ah hian Vety Doctor, AH & Vety Department ami leh Mobile Veterinary Unit (MVU) mi 12-te an tel a ni.

☛ Ni 16 February, 2024 atang khan ZPDS Poultry Hatchery Farm, Tanhrl ami

Ar puah sa thianghlim taka buatsaih chu ZPDS Sales outlet, Khatlaah zawrh chhuah tan a ni.

☛ Shri Jagat Hazarika, Adviser (Statistics), AHS Division leh Shri Chet Ram Meena Deputy Director, Animal Husbandry and Dairying, New Delhi te chuan ni 23 February, 2024 khan Mizoram rawn tlawhin Winter season data collection leh Statistics section lam harsatnate an rawn sawipui a, he hunah hian Dr. Robert Rualthankhuma, DD(LH), Pu Lalremruata R.O leh Statistics section lam ten an lo mikhual a ni.

☛ Awareness and fertility Camp, Aspirational District, Mamitah neih a ni : Ni 29 February, 2024 (Ningani) khan Zawlnuamah ranvulh inzirtirna (Awareness & Fertility camp under Pushudan Jagriti Abhiyaan) AH & Vety Department, Mamit District chuan a nei

a. He hun hi Dr F. Vanlalruata DAH&VO Mamit chuan kaihruaiin, Community Hall, Thuampui Zawlnuamah dar 10:30 am khan neih a ni. He hunah hian Ranvulhtu mi 250 lai mai an tel thei a, ranvulh inzirtirna hi District AH & Vety Hospital-a thawk Veterinary Doctor te bakah Zawlnuam Dispensary staff ten an pe a ni. Chawhma hunah ranvulh inzirtirna neih a ni a, Chawhnu lamah Damdawi sem leh field visit-a hun hman a ni. He programme hi India ram chhunga District hnufual bik hrang hrang 112 (Aspirational districts)-ah neih vek tur a ni. Vawhnhnih neih tur a ni a, a hmasa zawk atan Zawlnuam Community Hall-ah neih a ni a, Ranvulhtu kal khawm ten hlawkthlak an ti hle.

☛ Rural Slaughter House, Brigade leh Mualpuia ran talh tum tan ni 13 February, 2024 leh 26 February, 2024

khan Butcher Licence dilna turin TB test leh ÷ul dangte tih rûn pui neih a ni a, he hunah hi Dr Michael V. Lalrinzuala VO (VPH) leh a staff-te baka Laboratory technician-ten an buaipui a, Butcher Licence diltu hming pe lut mi 57 an awm a, heng Slaughter House-a ran talh tur hian thiamna bik neih a ngaih bakah ran leh mihring inkara natna inkaichawn theih te lakah an fihlim bawk tur a ni, Butcher Licence hi kum tin renew ÷hin a ni.

☛ MVSA (Mizoram Veterinary Service Association) hruaitute chuan ni 9 March,

2024 khan Chief Minister Pu Lalduhawma chu a chenaah an hmu a, thil pawimawh tak tak an sawipuite zingah ran chaw thar chhuah tipung tura hma lakna te, bawng chaw chinna tihzauh te, khawl hmanga ran chaw siam mêkte a quality tih÷hat te. Heng bakah hian Thlai chingtute rate ÷ha zawka leisak ÷ha a tih thu te a lo hrilh a, hemi chung-changah hian ruahhmanna lo duanga theh lut rang turin a chah a, MVSA chuan Chief Minister relief fund atan cheng nuaikhath an hlan nghal bawk a ni.



MINISTERIN AH & VETY DIRECTORATE TLAWH

Ni 12 January, 2024 khan A.H. & Vety Minister Pu C. Lalsawivunga chuan Directorate of A.H. & Vety Department, Khatla tlawhin thawktute nen inkawmna hun a hman. Minister tlawh pual hian Mizoram State Veterinary Council Hall-ah programme tawi buatsaih a ni a. Thu sawiin Minister chuan Mizote hi kan pi leh pute atanga ran vulh thin kan nih thu sawiin, ram lo changkang zelah ran enkawl na pawh hmanrua tha leh kalphung mumal zawk a awm chhoh tak zel avanga ranvulhtute tan ei zawnna hlawk zawk nei tura kawng a inhawn tak zel thu a sawi a. Ram hruaitu hmasate leh Dept. hotu hmasate an hma lo lak tawhna a zahawmin thinlung takin zahna chibai ka buk a ni tiin Minister Pu C. Lalsawivunga chuan hmasawn chhunzawm zel turin theihtawp a chhuah tur thu

a sawi a. "Chhungkua angin theih -tawp chhuahin tan kan la chho ang a, hma lamah mipuiin beiseina sang tak nen min en tih hre thar leh ila, min beiseina te tihlawh-ting turin thahnem ngai takin thawk ila" tiin Vety department thawktute chu an thiamna leh finna te kut hnathawktute tan kal se a duh thu a sawi. Pi Lalzarmawii, Commissioner & Secy chuan he hun hi kaihruaiin, Department hnathawh dan leh section hrang hrang hma lak mekte power point presentation hrilhfiarna neih a ni. Dr. C. Lalrintluanga, Director pawhin thu a sawi baw. Minister hian Directorate-a section hrang hrangte fang kualin staff-te nen inhmelhriatna hun a nei a. Minister hian Veterinary Polyclinic Hospital leh Epidemiological Centre te tlawh bawkin hnathawh dan te a en a ni.

**AH & VETY Minister-in ui seh avanga natna,
Rabies umbo nana State leh District
Action Plan Workshop hmanpui**

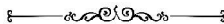
Ni 17 January, 2024 : Pu C. Lalsawivunga, AH & Vety Minister chuan Royale Lalawi Hotel Conference Hall, Khatla-a Department of Health & Family Welfare Mizoram buatsaih ni hnih awh tur Workshop, Finalization of State Action Plan and Development of District Action Plan for Eliminating Dog Mediated Rabies by 2030 for the State of Mizoram chu khuallian niin a hmanpui.

Minister chuan Rabies natna um bo nana Action Plan Workshop buatsaihah khuallian a ni chu lawmawm a tih thu sawiin kan ran vulh, a bik takin mihringin kan chenpui nasat ui chu kan venhim that a, vaccine laktir lamah pawh ñan kan lak a ñul thu a sawi a. Ui mai bakah ran hran hran pawh natna laka venhimna vaccination

theihtawp chhuaha pêk chu kan tihmakmawh a nih thu a sawi a. AH & Vety Department chuan theihtawp chhuaha kan ran vulhte natna laka venhim chu kan Priority a ni tur a ni tiin ui seh avanga Rabies thihpui kan awm ñhin chu pawl a tih thu sawiin kum 2030 ral hma ngeia um bo a nih theih nana theihtawp chhuah turin kal khawmte chu a chah a ni. He huna Khualzahawm Pi Zarzokimi, MCS, Jt. Secretary, UD&PA & DM&R chuan Aizawl Municipal Corporation leh Lunglei Municipal Council leh District Office kal tlangin kum 2030 ral hmaa Rabies natna um bo a nih ngei theih nan an department enkawl kal tlangin dan leh hrai mumal tak siana hnathawh an tum thu a sawi. He hunah hian Dr. Tushar Nale, Dy. Director, Centre of One Health,

NCDC MoHFW chuan National Centre for Disease Control (NCDC) chungchang sawifiahin Dr. Debalina Mitra, Asst. Commissioner, DAHD, MoFAHD chuan Department of Animal Husbandry and Dairying (DAHD) chungchang a sawifiah a. Dr. Chiranjeev Bhattacharya, National Programme Manager- HSS, UNDP chuan United Nations Development Programme (UNDP) chungchang sawifiahna a nei bawk. Dr. Pachuau Lalmalsawma, SNO, NRCP Mizoram chuan "Rabies towards Elimination in Mizoram - The Present sta-

tus" tih thupui hmangin hun a hman bakah he hunah hian NCDC leh UNDP chungchangah Group Discussion neihho a ni. He hunah hian Dr. Pachuau Lalmalsawma, SNO, NRCP chuan kalkhawmte lawmna thu sawiin Dr. Rebecca Lalmuanpuui, State Veterinary Consultant, NHM chuan lawmthu a sawi bawk. Workshop-ah hian AH & Vety dept. Veterinary Officers, Integrated Disease Surveillance Program (ISDP) hnuaia thawktute leh ZMC Officials bakah Jhapiego aiawhte an tel a ni.



ZAWHNA HUANG

Q1. *Ka vawk vulh hi ka vulh aţangin thla 4-na a ni tawh a. A mei hur ţan a, eng tikah nge ka pawltir ang?*

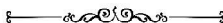
Zawttu: Laldawla

Chhanna: Vawk hi an ei leh in ţat dana zir tein an hur hma thei hle tawh a, amaherawhchu, pawltir vat erawh a ţha lem lo a ni. An chhul a la puitlin tâwk loh avangin a no paite a puitling zo lo emaw, a pai tam lam emaw a ţha lo lamin a nghawng thei a ni. Vawk hi ni 270-a upa an nih vela pawltir hian an chhul te a lo puitling ţha tawh a, an chi bawm aţanga chi chhuak pawh a tam avangin a no pai zat pawh a tam deuh zawk a ni.

Q2. *Ka zawhte te hian Rabies an kai ve thei tho em ni? Min lo seh ta se, inchiu ve kher a ngai em?*

Zawttu: Lalrampari

Chhanna: Zawhte te hi ui leh ran dang ang thoin warm blooded animals (boruak eng anga lum emaw vawt emaw pawh ni se, taksa lum zawng danglam ve chuang lo) an ni a. Rabies natna hi ramsa leh ran te, warm blooded kan tih ho, mihringte pawh telin a kai vek theih a ni. Chuvangin zawhte seh pawh Ui seh a hlauhawm ang bawkin a hlauhawm ve tho a, Post bite therapy bakah Tetanus Toxoid lâk ngei ngei tur a ni. Tin, kan zawhte te pawh hi Anti Rabies vaccine pek vek tur a ni.





**Minister Pu C. Lalsawivunga
at AH & Veterinary Farm, Thenzawl**