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LIVESTOCK BIOSECURITY
Dr Lalthawmmawii.Farm Assistant i/c Pig Farm,CVSc & AH, Selesih

PLASTIC EGG (ARTUI LEM) AAWM EM?
Dr. H. Lalawmpuii M.V.Sc., Ph.D., Livestock Products Technology
Dr. Laltlankimi M.V.Sc, Ph.D
Dept. of Veterinary Pathology, CoVSc& AH, CAU, Nagaland

SA THIANGHLIM CHUNGCHANG
Dr. Michael V.Lalrinzuala V.O.(VPH)

Keimahni
Zawhna huang

EDITORIAL

Ranvulh puitu magazine chu hun engemaw chen kan chhuah theihloh hnuah kan hotute thahnemngaihna a zarah april-june 2023 issue atangin kan han chhuah leh tan dawn chu ani a,covid-19 hripui vangin nasa takin khawvel nun phung a khaihlaka,kan nitin hun hman dan pawh a sawi danglam dawrh a tih theih awm e,chung zingah chuan ran vulh lama ei zawng leh tuimi te pawh kan bang chuang lo ani.

Ranvulh puitu magazine lo chhiar thin te leh lo hmang tangkai tak tak thin te kan awm tih kan hria a,kan lawm hle ani chutihrualin office lamah te a copy hlui deuh tawh te pawh pawl ti lo a,ranvulh puitu magazine anih tawh phawt chuan chhiar vek duh mai,ngaisang leh hlut avanga rawn zawng te kan awm nawk thin a,a lawmawm takzet ani. Mithiam ten an zirna lam atanga ran vulh tu ten an lo tangkaipui theih tur article an ziah te a theih ang angin kan la khawm thin a,chu mai piah lamah departmenta tawh mek leh pension tawh te tana hriat chakawm department chanchin lawrkhawm te pawh dah zel ani,kan tangkaipui zel kan beisei.

Ran vulh dan te a kum telin a lo inthlak ve zel a,hautak lutuk lo a ran atanga a theih ang anga thar chhuah tam dan te leh chumai piah lamah damdawi thar te a lo chhuak ve zel a,chung te chu mizo tawnga chhiar mai tur a awm thin loh avangin department chuan a theih ang angin hma la in kan ran vulh tute pawh an in tuaihriam zel a tul ani tih hre bawkin he magazine hi tangkai taka hman anih theih nan a chhuah thin a ni tih kha kan hre reng dawn nia.

**EXPOSURE TOUR TO
ANAND(Gujarat) AND
MANALI(Himachal Pradesh)**

*Dr C.Khawlthangmawia Senior
V.O. Polyclinic Hospital,Aizawl.*

Sawrkar letter no
F.21011/8/2010 AH & V/Pt -II
dated 25th Aug,2017 angin
Exposer visit to
Gujarat,Chandhigarh leh New
Delhi tlawh ve thei tur Vety
Officer thlanchhuah zingah ka
lo telve hlauh a.Dept in
Training tur zinga a
thlanchhuahah ka lo telve nual
tawh mah ila .Bangalore,
Kolkotta, Shillong,Jorhat leh
adangahte,mahse senior tawh
lama mahni sum seng lova han
zinchhuak thei tura ka telve
kha ka lawm takzet ani.

He kan Exposer visit
ah hian heng VO te hi kan kal
ani.Dr.Robert Rualthankhuma
VO(P), Dr.Lalzarzova, V.O
(Animal feed Plant),Dr.Esther
Lalzoliani VO(DI Lab)Dr
B.Lallawmsanga VO, Dr
Biaklianzuali VO,
Dr.Ngurzidingi Sailo VO,
Dr C.Lalthankhumi VO,

Dr.C.Khawlthangmawia
te kan ni.

He Exposer tour atana sum
senso hi NLM(National
Livestock Mission) amanga
hmuh ani a,Tour hmasa ber
atan hian seat 10 a awm a,chu
chu VO Senior ho deuhthe kal
phawt se tih ani a.Mi 10 kan
tlin ta lova,harsatna a awm
thut avangin Dr.Lalengzami
Hrahsel chuan min thulhsan ta
hlauh a, a pawl hle ani.He
exposer visit hi zinkual tur leh
bazar tura kal kan nilova,NDDB
ah Training nei tur leh an
Factory,Feed Plant te,Livestock
Farm lian te tlawha zirchiang
tura zinchhuak kan ni.Ni
12.9.2017(Tue) a lo thlen
meuh chuan zinchhuak turin
kan inbuatsaih a,Dr Estheri te
inah inngnak khawmin kan
inchibai nak nak a,Dr.Ngurtein
hunserh mawngtaina a
hmanga, kan hlim hle.Bolero
pakhat leh TUV pakhatin
Lengpui Airport thleng min
thlah a,Lengpui Airport
amangin Jet Airways in dar
2:20 PM ah kan thlawkchhuak
a,Guwahati dar 3:25 PMah kan

thleng.Thlawhna amanga chhuak miah lovin dar 4:40PM ah Delhi kan tum a,darkar khat zet kan chawl leh a,Delhi amanga thlawk chhuak lehin zan dar 9:34PMah Ahmedabad Airportah damtakin kan mum leh bawk.Mawng a kham duh hle.

Airport a mangerin Dr Roberta leh Dr Zartea lo biak fel sa Tourist Taxi pahnihin min lo hmuak thlap a,kan lal hle.Airport leh Anand inkar hi 120 Km vel ani a,kan tlanchak bawk a,darkar 1 leh 20min ah Anand hi kan thleng a,zan dar 11:30 PMah AC room,NDDB complexah chaw eipuarin,a hmeh whisky tlem lemsak zovin tui takin kan mu ta ani.Thlawhna kan thlawh chhung khan thenkhat hlim taka nui bawr bawr kan awm laiin thenkhat Pathian hnena lo mawngtai reng kan awmte khan kan tour a ti ropui.

National Dairy Development Board(NDDB) leh Anand Milk Union Limited(AMUL) kalphung tlem NDDB hi ni 27th

Sept,1965 ah a ni a,hemi hmalam kum engemawzat liam taah khan Bawnghnuteah hian an intodelh em em mhin a.Gujarat hi Vegeterian tamna ber State an lo tih angin Sa hi an lo ei meuh lova.Bawng hi an vulh tam em em a,a sa an ei ngailo thung.A bik takin Bawng note lo piang hlim hi a pa anih chuan an lungngai hle mhin ani.A chithlah tur bik enkawl tur an awm a,chu chu amamawhin man chawiin an thlahtir mhin.Chubak bawngpa piang reng reng chu bazarah enkawl zui lohin an chhuah mai thin.

Hetianga Bawnghnute an ngainat em avang hian an state tharchhuah hi an hnianghnar hle thin a,hralhna lamah an buai ta a.Maharastra khawpui Mumbaiah harsa takin Rel leh motorin an thawn thla mhin a.Chu pawh chu Mumbai amanga rawn kharchhawngtuten bawnghnute rate an rawn tihdanglam thut thin avangin harsatna an tawk nasa hle thin ani.Kum 1943 hian Dr

V.Kurean, Kerala ami chu Ahmedabhad ah hian sawrkar hnathawkin alo awm a,amah hi Mechanical Engineer,London amanga zirchhuak ani.Amah hi Engineer lam mi nimahse Bawnghnute heti zozai luangral leh ram mipuite eizawna lam hi a ngaihtuah ta em em a.A hna amanga bangin Milk Union hmasa ber chu Anand amang hian a din ta ani.

Dr.V.Kurean an Milk Union hmasa ber adin ni hi ni 14th December ,1946 a ni.Chuta an Milk Union hming chu 'KHEDA' an ti a.Kheda hnuaiah hlawn lianpui puiin Milk Union(Separate) an din leh ta nual ani.Chungte chu— Kheira,Kaira,Anand te anni a,heng ho hian mawhphurhna lianpui pui neiin hna an thawk a,heng Union hnuaiah hian Federation hrang hrang a awm leh nual ani.Kheda hian State pawna thawncchuah tur a khawih bik a,an thawncchuahna tam ber chu Mumbai ani.Interstate a thawnkual vel buaipuitu pawl

lian tak a awm a,chu chu 'Polson' an ti bawk.NDDDB hian a hranpa in GOI amangin FUND a dawng ngai tawh lova,revolving fund angin an kal mek ani. NDDDB hian heng Milk Union hrang hrang hi a awp vek a,Milk Union 3 lian deuh deuh leh Societies 7 a awm mek bawk. AMUL(Anand Milk Union Limited) hi A nand hmuna awm a ni a,Amul tih awmzia hi man neilo 'Priceless' tihna ani.

AMUL plant lo indin dan tlem :

Kum 1964,Oct ni 30 khan Lalbahadur Shastri khan Anand hi a tlawh a,chutihlai chuan India resident a ni mek a,Dr. V.Kurean hi Milk Union hrang hrang hruiatu ani a,remruatna fel tak lo siamin aropui thei ang berin Lalbahadur Shastri chu mipui alo hmuah tir a.An Bawnghnute tharchhuah chu "Hralhna awmlo" tiin Lal Bahadur Shastri hmaah chuan tam tak mipuite chu a leihbuak tir a,kawng nasa takin alo zawh tir bawk a.Chutihlai chuan Gujarat Chief

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Minister(?) leh Dr. V.Kurean te hmalakna chuan hlawhtlinna ropui tak hmu nghalin, AMUL MILK PROCESSING PLAN ropui tak chu ni 27th Sept,1965 ah alungphum chu L.B.Shastrri ,President of India chuan Anand hmunah hian a phum ta ani.Tunah chuan ‘AMUL’ tih hi Gujaratah chuan ‘Brand name of Federation,Gujarat’ atan hman ngheh alo ni ta ani. Ahnuaiah hian Cooperative Union -18,Societies - 18549 leh Milk Producers-3.6 Million Families an awm mek(as on 14.9.2017),Amul hmunah hian kan kal lai hian thawktu mi 3120 zet an awm mek a,an thawhna hmun tur leh an hlawh te hi Amul Board Members ten an ruahman mhin a,darkar zawnga chhuta hlawh pek mhin an nih avangin an thawh chhungin chawlh an nei ngailo. Primary Milk Producers te hian vengtin ami Society Boothah zing leh tlaiah Bawngvulhtu ten an		harchhuah Bawnghnute an chhunglut ziah a,Milk boothah chuan Amul a thawktuten felfai taka lo record thlapin an lo chhinchhiah sak thin.Ni 15 ral hnuah Bawngvulhtute hnenah an bawnghnute man mheuh kha an pe leh thlap zela, BA an nei ve ngai lova,felfai takin a vir(rotate) mup mup ani ber mai.Bawnghnute Milk Booth pakhat amanga lakkhawm,zing leh tlai ami belhkhawm hi 4800 litres ani tlangpui tiin min hrilh.Amul Milk Plant ah hian nikhatah bawnghnute 2.5 lakh - 3 lakh litres Milk an process tlangpui ani.Tank Lorry 20 rual hian nitin full trip milk hi Amul Milk processing ,Anandah hian hianchhunglut a nih ber chu,a ropui teh e. Animal Feed Plant,Anand: He Animal(Abikin Cattle) Feed Plant hi NDDB relbawlna hnuaiah Amul Union te nen thawk hovin tluang takin tnthlung nghet tak siin hna an thawk a.Inrelbawlina lamah erawh chuan Independent charge an nei vek thung a ni.A hmun ngeia kala en kan ni	

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bawka,a ropui ngei mai.A raw materials hi Punjab leh Haryana amanga lak a tam ber ani.Raw materials hrang hrang te chu Building hrang hrangah an dah vek a,Feed Laboratory Changtlung tak an nei nghal vek bawk.Bawng chaw Concentrates an siam chhuah reng reng Age bar,Sex,Pregnancy,Bull ration,Cow ration an siam hrang vek.Hnathawktu mi 2500 zet an awm a,an thawh dan darkar anga chhut vek ani a,nitin 100-150 metric ton an siamchhuak thin ani.

Training chung chang :

NDDB ah hian englaipawhin mi 30 amanga 50 vel;Technical mi leh ni lemlo ten Training inchhawkin an nei zut reng a.India ram state hrang hrang amangin topic mul dan azirin Training an awm reng tihtheih ani. Tunmum Exposer Visitah pawh hian Theory with Projector Programme kan nei ngawrh hle a.NDDB History,Set up,Amul chung chang,Feed Plant,Disease

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revalency and its control,Cattle underfed,Vaccination,INAPH soft wares and its application,Ear Tagging and its importance,Artificial Insemination,Record Keeping,Farmers Visit,Farm Visit,Visit to Amul Plant,Visit to Cattle Feed Plant,te kan zu zir ber a,ni 3 lek hun kan neih avangin a khamavwm loh hle mai.Kan programme a chepin a hahthlak duh hle ani. Ni 10-13th,Sept,2017 chu NDDB,Anand Complexah kan riak a,duat takin min enkawl a,boruak lum hle mahse A/C room vekah Class kan laa,Guest room A/C ah kan awm thei a,kan Mess a tha in a tui bawk a,a nuam hle ani.Non-Veg a awmlo na in kan puar thei hle. Ni 14th Sept,2017 zan dar 10 PM Flight ah Ahmedabad chhuahsanin Delhi lam kan pan leh ta vung vung mai.

NDDB lamah let leh lawk :

NDDB hmuna kan tana Plant,Laboratory min fanpui vek bawk.Amul Factory in Milk product leh bye product

chauhin midang hnenah
Amul hian a hralh chauh

thin ani. NDDB ah hian kan
hun a khat hle a,ni 3 chawl lova
kan zir hnu in Delhi lam kan
pan thei chauh ani e.
(Chhunzawm leh tur)

LUMPY SKIN DISEASE –
BAWNGHNUTE TUI TAM
TAKA TI TLEM TU

*Dr Lalhruaipuii, Dr
Tamiliarasan K., Dr
Lalrempuii and Dr S. Doley
ICAR-RC for NEH Region,
Mizoram Centre, Kolasib*

Kamkeuna: Lumpy skin disease (LSD) hi India ramah bawng natna rawn lar thar inkaichhawn hlauhawm tak mai virus chikhat Capripoxvirus in a thlen ani a. He natna hi Zambia ramah kum 1929 khan lo intan in, South Asia-ah 2019 khan rawn leng in, Bangladesh ah pawh a rawn in lar chhuak bawk a. India ramah chuan he natna hi a hmasa ber atan August, 2019 kumah report niin 2020 kum khan a hluar hle a, state tam zawkah hmuhchhuah ani a. Kum 2020 khan nasa takin Gujarat leh Rajasthan-ah rawn leng lehin, thla thum chhung lekin state 15 ah he natna hi bawng ten an vei ani. He natna hian khawsik,

vun natna mai bakah an kawchhung thleng a khawih a, bawnghnute tui a tla hniam a, an vun te a pan chhia a, hei hian ram sum dinhmun a tih hniam phah hle ani.

Inkai chhawndan: He natna hi thisen dawt ho, heng tho, thosi leh saphihrik ten an thlen a, a natna hi an seh atanga ni 6-9 velah a rawn lang chhuak thin. Bawng note in a pui hnute thianghlim lo atangin a kai thei bawk. Natna lan chhuahdan: Khawsik sang tak 41°C aia sang (105°F), hnute tui tlem, nguai, chaw ei tuilo, cher, hnar chhung vung, chilthli tam tak, thalbe lian (vung), bawng railai no chhiat, rei tak chhung hur tha theilo. Bawngpa-ah chithlah theih loh (unfertile) a thlen thei. A bikin lu, nghawng, ke leh serh velah te rawn bawl pawng (2-5 cm in diameter) in vun chhung rilah hlet arawn siam a, a

durh a hnai la in vun ati p[^]n a, a ti chhia a ser rei tak a awm thin ani. Heng vun pan te hi liakin an ka chhung leh an chaw kawngah natna hrik lutin an chuap thleng a khawih thei a an ke leh taksa peng hrang hrang heng ir fual, mawngkua leh an serh velah kaidarh in a pan a, na an tiin kal vel pawh harsa an ti thin.

Enkaw! dan: He natna tidam thei tur damdawi hi a awm lo a. Amaherawhchu natna dangin a tlak buak lohnan, antibiotic pek te, an pan lai a damdawi hnawih te leh an khawsik leh na tih reh nan nachawkna pek tur ani. Ethno-veterinary medicine (tualto damdawi) Ka a ei chi (Oral administration) 1. Chawhpawlh tur (dose khat): Panhnah-10nos., black pepper (thing hmarcha)-10 grams, chi-10 gram leh kurtai. 2. A siam

dan: Rawt diak vek hnuah kurtai pawlh tur. 3. A ei dan tur: Nikhat-ah darkar thum danah dose khat ni hnih naah dose thum zelin karthum chhung pek tur. A pawnlam (External): 1. Chawhpawlh tur: Acalypha indica (chhawntan) hnah-thum khat, purun var- mal 10, neem patta hnah-thum khat, coconut emaw chhawhchhi (sesame) tel-500ml, aieng-20 grams, mehendi hnah- thum khat, runhmu! dum (tulsi) hnah- thum khat. 2. Siam dan: a chung a mi zawng te khi rawt sawm vek hnuah coconut emaw chhawhchhi (sesame) tel- 500 ml nena chawhpawlh leh hnuah chum a, dah daih leh tur ani. 3. A hman dan: Vun nalai/panlai chu fai taka sil hnuah hnawih tur ani.

A inven dan (control): 1. He natna lenna hmunah chuan ran leh motor farm chhungah luh leh chhuah khap tlat tur ani. 2. Bawngin leh avelte fai tak leh thianghlim takin disinfectant

hmang kan ti fai
thin tur ani a, bawng thi an
awm chuan uluk taka
phum bo tur ani. 3. He
natna thlen/pu darh tu
rannung te hi kan rante
hian an kai lohnan ven uluk
tur ani. 4. Vaccine: Lumpi-
ProVacind leh
heterologous live
attenuated strain of goat
pox virus vaccine hmang
hian kan bawng te hi he
natna lakah hian kan lo
veng thei ani. He natna
hian nghawng a neih theih
dan: Lumpy Skin disease
(LSD) hian bawngnute tui
a ti tlahniam a thihna mai
bakah cher, nguai leh
chithlahna lamah harsatna
tam tak a thlen thei a.
Industry lian tak tak-ah te
bawngnute, a sa leh a vun
thil danga siamna turah
hlohna tam tak a thlen
bawk ani.

LIVESTOCK
BIOSECURITY

*Dr Lalthawmmawii.Farm
Assistant ,i/c Pig
Farm,CVSc & AH, Selesih*

Biosecurity chu eng nge ni?

Biosecurity tih awmzia chu kan farm a natna hrik lut tur venna,tih hniamna emaw tih tlemna turah humhalhna kawng hrang hrang kan zawm te tihna ani.

Agriculture Biosecurity kan tih chuan thlai lam venhmimna lam a kawk a. E.g: sazu leh rannung control,Human biosecurity ah chuan mihring venhimna lam ani leh a.E.g: Covid 19 leh Bioterrorisim (natna hrik atanga ralthuam hlauhawm siam chhuah),Livestock Biosecurity kan tih chuan kan ran vulh te venhimna lam a kawk. E.g: ASF, SFV, FMD

Ram changkang zawk Australia leh New Zealand ah te chuan Dan ang in Biosecurity hi an kalpui tawh a kum 2010 atang tawh khan. New Zealand ah pheih chuan Biosecurity Act tih 1993 ah an lo nei daih tawh ani.

Biosecurity tih hian thil pawimawh deuh deuh pathum a keng tel a, chungte chu:

- 1. Physical security – In , bungrua
- 2. Personnel security – Thawktute rinawmna
- 3. Information security – Farm date vawn that/ v e n h i m (Confidentiality, integrity leh availability)

Livestock Biosecurity

Eng nge a nih? Eng nge a pawimawhna?

Livestock biosecurity chu kan ran vulh te natna hrik hlauhawm laka venhimna atana kalphung/tihphung

hrang hrang kan zawmte sufai/silfai fo thin tur ani. Farm tihna a ni a. Kan ran vulhte luh dawna inthlakna room/ natna hrik hlauhawm tak changing room siamah in thlak atangin kan veng thei vek hnu ah chauh farm luh thin Biosecurity hi **tha tak leh** tur a ni. Farm chhuahsan dawn **khauh** taka **engtik lai pawh** pawhin farm thawnhnaw nen a kan zawm tlat chuan. farm pawn chhuah loh tur a L i v e s t o c k ani.

biosecurity bikah chuan a Foot bath farm luh dawn leh huam te chu – Faina (chhuah pah a ke chiah faina Sanitation), Ran enkawl siam ngei ngei bawk tur. (animal management), ran An kut fai takin ran khawih hma chaw enkawl (feed leh khawih hnuah an sil ziah tur management), farm leh a ani. E.g; bawnghnute sawr hma chhehvel enkawl (facility leh sawr hnu, ran damlo management), ran ek khawih hma leh khawih hnu. sawngbawl (manure Ran naupang lam buaipui management) leh ran thi hmaksak phawt a chumi sawngbawl (disposal of zawhah ran upa lam. Hei hian dead animals). chaw pek te, sil fai te pawh a

1.Faina (Sanitation) huam ang. Ran hrisel buaipui Farm thawktute faina hmasak phawt a chumi dawtah (Employee sanitation) ran damlo/hrisel lo.

Farm thawktute chu farm a **2.Bungrua faina (Equipment sanitation)** hak tur bik thawmhnaw (sanitation)

kawr leh pheikhwk) a spare Farm bungrua reng reng fai nen an nei tur ani. taka enkawl tur a ni. (E.g: Farm thawktuten an kawr bakcheh, forceps, pig catcher leh pheikhawk (boot) an etc) te ran dam lo a kan hmang

a nih chuan silfai a disinfect phawt loh chuan ran hriselah hman loh tur.

Ear tags, clippers, dehorners (ki tanna), hoof knife te hman zawh veleh silfai a, disinfect tur a ni.

Nursing bottles leh bucket te ran chaw pek nan a kan hman te silfai nghal zel tur a ni.

Ran ek atana kan hman hmanrua reng reng (suahdur, wheel barrow etc) ran chaw sawngbawl nan hman loh tur a ni.

Lirthei faina (vehicle and transport sanitation)Ran chaw phur motor pawh farm chhungah tlan lut lovin farm luhna bulah deliver tura ruahmanna siam tur a ni.Ran hralhchhuah leh leina kawngah pawh a theih hram chuan ran in hlat deuhah motor dah tur a ni.Loh theih loh thilah farm luh a ngaih chuan motor pawn lam leh a ke (tyres) silfai leh disinfect tur a ni.

Pheikhawk faina (boot cleaning) Boot a ek leh bal kai te chu sahbawn a fai taka sil thin tur.

Boot chu disinfect solution a chiah thin tur a ni.Disposable booties te farm visitors te tan kan dah theih chuan dah sak thin tur a ni.

Ran enkawl (animal management)

Khung hran (Quarantine) – Ran lei thar/lak thar reng reng quarantine hmasak phawt tur a ni a. Kar 3 entlak a, an that chuan ran dang nen an dah pawlh (mix) theih chauh ang.

-Quarantine na hmun hi kan ran in hnaiah a ni tur a ni lo.

-Ran upa leh naupang in hi a hrang tur a ni a. Ran naupang hian ran up ate natna an kai sam em em a ni.

-Ran damlo dahna/ Sick room neih tel tur.

-Ran dam lo enkawl chu ran hrisel ho buaipui zawhah tih tur.

-Vaccine pek theih ang ang pek thin tur.Ran ek te hi silfai ziah thin tur a ni.

Ran chaw enkawl (Feed management)

-Ran chaw dahna chu a phui tha tur a ni.

-Chaw hmuar a awm leh awm loh enfiah thin tur a ni.

-A theih hram chuan air tight bur ah dah theih angang dah thin tur a ni.E.g:mineral mixure, etc

-Ran chaw pekin darkar 24 chhunga an ei zawh loh chu peih vek tur a ni.

-Feed bags hi chhuatah ni lovin dawhsan (platform) ah dah tur a ni.-I ran ten nikhatah chaw an ei tam dan a zirin I ran chaw stock thin ang che. Tam lutuk stock loh tur. —Chaw hlui/ hmuar a ni siam thei a, tur hlauhawm takah a chang thei tih hriat a tha.

-Ran tui in na kan dah khawl na chu tihfai ve fo thin tur ani.

-An tui in tur chu disinfect thin tur a ni.

Ran in leh a chheh vel enkawlna (Facility maintenance)

-Sazu leh rannung dangte farm chhungah an lut thei em tih enfiah fo thin tur a ni.

-Tuitling those pian theihna tur chu tih fai zel tur ani.

-Kan farm hungna/fence te kan enfiah thin tur a ni.

Ran ek sawngbawl (Manure management)

-Ran ek sawngbawl nan a hman reng reng te chu ran chaw khawih/handle nan hman loh tur a ni.

-Ran ek te chu natna hrik an thih theih nan dahkhawl na bik/comp Lirthei reng reng

-I ran ten nikhatah chaw an ei tam dan a zirin I ran chaw stock thin ang che. Tam lutuk stock loh tur. —Chaw hlui/ hmuar a ni siam thei a, tur

hlauhawm takah a chang thei tih hriat a tha.

na chu tihfai ve fo thin tur ani.

disinfect thin tur a ni.

Ran in leh a chheh vel enkawlna (Facility maintenance)

-Sazu leh rannung dangte farm chhungah an lut thei em tih enfiah fo thin tur a ni.

-Tuitling those pian theihna tur chu tih fai zel tur ani.

-Kan farm hungna/fence te kan enfiah thin tur a ni.

Ran ek sawngbawl (Manure management)

-Ran ek sawngbawl nan a hman reng reng te chu ran chaw khawih/handle nan hman loh tur a ni.

-Ran ek te chu natna hrik an thih theih nan dahkhawl na bik/comp Lirthei reng reng

farm chhungah luh khap tlat tur a ni.Ran ek thli chu fel fai takin ran in atangin luan chhuah tir tur a ni.

Ran thi sawngbawl (Disposal of dead animals)-Ran thi chu natna pawh ni se tha taka phum tur a ni.

Ran thi sawngbawl dah (natna zirin) state in in kaihhruaina a duan te tha taka zawm tur a ni.

-Ran thih dan chungchangah rinhlehma a awm chuan mithiam te rawn zung zung hi a fin thlak ber.

Disinfectant hman		Dose
Glufort, Kohrsolin-Th (Glutaraldehyde dihydroxide)	Ran in chung (natna hrik thahnan)	Bacteria, virus, fungal – 30 ml/1 lit of water
	Ran in chung (regular disinfection)	5ml/1 lit of water
	scissors (bakcheh), boot, vehicles, tyres (equipments)	5ml/1 lit of water
	Farm compound	10ml/1 lit of water
	Mihring spray	1ml/1 lit of water
VT Virex II 256 (ammonium Chloride, alcohol, etc)	Ran in chung (natna hrik thahnan)	Bacteria, virus, fungal – 1 ml/3 lit of water
	Ran in chung (regular disinfection)	1 ml/ 10 lit of water
	Bungrua (equipments)	4ml / 1 lit of water
	Spray	4ml / 1 lit of water
x-Term (benzyl Chloride, Glutaraldehyde)	Ran in chung (regular disinfection)	5ml/ 1 lit of water
Bleaching powder	Ran in compound	Powder phul tur
Fumigation/ damdawi hu	Incubator, ran in chung	Tui sen - 20 g + Formalin – 40 ml 100 cubic feet ah hman tur
Potassium permanganate/ Tui sen	Foot bath	
Povidone Iodine	bakcheh, Forceps (surgical material)	

PLASTIC EGG (ARTUI LEM) A AWM EM?

Dr. H. Lalawmpuii M.V.Sc.,
Ph.D., Livestock Products
Technology and

Dr. Laltlankimi M.V.Sc, Ph.D.,
Dept. of Veterinary
Pathology, CoVSc& AH, CAU,
Nagaland

Hnampui zawkte chuan artui hi ‘nature’s perfect food’ an loti thin a; mihring tana eitur tha-protein, vitamin leh thildang thaber ber awmna a ni. Artui thianghlim leh thatak a hun reizawk vawng tur chuan temperature leh humidity dik taka vawn erawh angai thung.

Artui quality (egg quality) hi artui kan dahthat dan leh dah reizawngah a innghat thui hle a, artui thar hi room temperatureah hian ni 10 atanga ni 12 vel tharlam takin a dah theih a. Artui dah rei hnu a danglamna

tam tak lo awm thin avang hian artui hlui deuh tawh chhum/kante hi artui lem (plastic egg) emaw anlo tihial thin.

Artui hi laktirh atanga zawrh tura hmun dang a phurh kual anih hian temperature hrang hrangah a in expose thin a. Hetiang temperature danglamah hian artui heng kal tlangin artui chhung (a varleh a chhungmu) a tui hu leh carbon dioxide chu pawn lamah a chhuak ta thin a ni. Artui thar lian tha pangngai rihzawng hi 50-65g te ani hlaiin, artui hlui tawh chuan an rihna hi 15-20g vel thlengin an hlohthei a, artui chhung atanga tuihu chhuak avang hian a lo zang sawtin, a lo thin rik luk lukt heih ta thin bawk. Artui var tuamtu membrane kan tih hi artui thar lamah chuan a mam in a nel thep a (slimy and smooth), Amaherawhchu, tui huchhuak avangin membrane hi a lo ro (dry) in lehkha pan te ang maiin a lo awm ta thin

mai lo kha artui hlui ah chuan a ro avangin a kang awlsam ta hle. A lo rei deuh hnu chuan heng artui var leh a chhung mute hi a lo inchawhpawlh tan a, han chhut keh pawh in alo inpawlh deuh nuai mai thin ta a ni.

Engtinngge artui hlui leh thar kan hriat theih tak ang le?

Artui tharah chuan a chhungmu hi a laiah nghet takin a awm a, thin pawhin a che sawn lem lo. Tui a chiahin artui hlui chu a lang nalh a, artui thar erawh chu no mawng lamah a tla thla thin.

Artui han chhut keh chiah hi an artui thar chu a chhung mu leh a var lai fel fai takin a in then a, a chhung mupawh a mum in a varlai pawh a hnang (gel) deuh hlarh thin a, artui hluiah chuan a inpawlh deuh nuai thin a ni. Artui lem ni a rinhle

deuhkanneianihchuan acid (2N Hydrochloric acid) tui ah chiah in a hriat theih a. Artui heng a 98% hi calcium carbonate a siam niin acid a chiah in a ral (dissolve) thei thin. Tin acid a chiah hnu hian artui heng chhunglama bet membranete hi a lo tlahrang a, lehkhanehtakemaw plastic nemleh pan teang in a awm ta thin a ni. Heibakahhian Standard Laboratory ah artui protein content leh amino acid composition tezirchiantheih a nibawk.

Food Safety and Standard Authority of India (FSSAI) chuan artuilem (plastic egg) hi aawm lo a ti tlat a. A chhan pakhatnaah chuan tu tan mah artui (natural egg) ang chiah chiah thil a siamchhuah theihloh. A pahnihnaah chuan artuilem siam tura sum involve a san avangin artuilem siamchhuah hi a hlawk dawn lo.

Nikum kum 2019-20
inkar khan India ram chuan

artui billion 100
chuang a tharchhuak a, an
thar chhuahna stateah phei
chuan cheng 4/- bawr hisap
ten an lo khar tir a, chung
ia tlawm a artuilem siam
tum chu thiltheihloh ang
hial a ni. Plastic egg lo siam
dawn pawh ni teh rengila a
hman rua tur awmang
chemicals (Calcium
Chloride, Alginate, Gelatine
etc.) te hi damdawi dang
tha tak tak siam nan/tuam
nan an hmang a, a
sawngbawl a hautak in a to
hleabawk.

Consumer ten a kan
hriattur pawimawh em em
chu tun dinhmunah hian
artui ang/lem siam turin
technique a la awm lo a.
India ram hmun hrang
hrang a Plastic egg ni a
report te sample an lo
endiktawh ah FSSAI chuan
heng artuite hi a lemnilovin
a hluivang a ni an tih bakah
ei atan pawh a hlauhawm
lemloh a ni anti. Hmun lum
deuhah chuan artui ni 15

aia rei dahah heng a chhung a
danglamna kan sawite hi a
awm thin a ni. Tin kan ar
chawpek tam tak tepawh hian
artuiah danglamna a thlen ve
thei tih hriat bawk a tha. Kan
vaia hrisel zawk nan leh puar
nan artui hmin leh thianghlim
taka siam leh sawngbaw lei zel
ang u.

**SA THIANGHLIM
CHUNGCHANG**

Dr. Michael V. Lalrinzuala
V.O. (VPH)

Sa thianghlim

Sa thianghlim han tih hian kan hmuhtheih lai mai nilo, a chhungril lam thlenga thianghlim leh ei atana tlak ngei a ni tur a ni. Sa hrisel leh thianghlim chuan kan taksa mamawh chaw tha tam tak bakah vitamin, a bikin thlaihnah a awm lo Vitamin B12 te a pai bawk. Sa chu a lo thianghlim theih nan ran chu talh hma atanga a taksa dinhmunin thui tak a hril avangin ran hrisel leh dam tha chauh talh thin tur a ni.

**The Mizoram Animal
Slaughter Act, 2013**

Mizoram sorkar
chuan ‘The Mizoram Animal

Slaughter Act, 2013’
siamin hemi dan hian
Mizoram (Autonomous
Districts tiam lovin) chhunga
mihring ei atana talh tur ran
reng reng chu sa talhna tur
hmun bika siam slaughter
house ah chauh talh tur thu a
pe a. Ran talh tur enfiahtu
Meat Inspector in ran talh tur
te chu lo enfiahin, talh hmaa
endik (ante-mortem
examination) leh talh hnua
endik (post-mortem
examination) te a ti tur a ni
tih a ni. He dan bawhzui hian
A.H. & Vety. Department
chuan hma la in, tunah hian
sa talhna hmun siamin Meat
Inspector enkawlina hnuaiah
Rural Slaughter House,
Mualpui chu kalpui mek a ni
a. Kan slaughterhouse hi
mumal taka kalpui niin, tunah
hian thla khatah bawng 500
atanga 600 talh thin a ni. A.H.
& Vety. Department chuan
Meat Inspector atan hian
qualified Vety. Doctor dahin

ran talh tur te chu a lo
endik thin a. Meat
Inspector hian ran te chu
talh an nih hmaa dah
lailawkna hmun 'Lairage'
ah endik phawtin, ran chu
a pawnlam landanah a
that vek chauhin talh
theih a ni tih
chhinchhiahna chhut a ni
a, hrisel chiahlo leh natna
nei te chu enkawl tura
thawn emaw dah

hran emaw thin a
ni. Natna hlauhawm tak
vei ran te chu a hranpaa
siam tihhlumna hmuna
tihhlum thin a ni. Ran talh
tlak a chhinchhiah tawh te
chauh chu talh niin, sa
talh thiam bik 'Butcher'
chuan a talh hnuah Meat
Inspector chuan sa chu
mihring tan ei tlak a nih
leh nihloh a rawn enfiah
leh thin a ni. Sa chu Meat
Inspector in eitlak a tih
chuan rawng ei atana him
chiin sa chu

chhinchhiahna pek a
ni a, mihring ei atana tlak tih
tarlanna certificate pek thin
a ni.

Sa hrisel loSa atang hian
natna tamtak mihring ten
kan kaitheih a awm a, chung
chu sap tawngin zoonotic
diseases an ti. Zoonotic
disease thenkhat sa atanga
kan kai theih te chu anthrax
te, brucellosis te, influenza
te, tuberculosis (TB) te,
salmonellosis leh taeniasis
te a ni a. Heng bakah hian
mihring hriselna nghawng
thei natna dang tamtak a
awm baw. Ran natna azirin
sa chu a pumin emaw a
natna in a khawihchhiat lai
chauh emaw paih ngai a
awm thin. Sa ah chuan
hlam te, hnai te, ruh
chuktuah na te, duk te,
panchhia te, kal natna te,
rawng danglam bik te,
tuberculosis in a nghawng
lai sa te leh rulhut
hnathawh hrang hrang

avanga tui tling emaw te a lo awm chuan paih a ngai thin. A natna in sa chu a khawihchhiat lai a tlem chuan sa hrisel lo lai chauh chu paih mai a tawk thin laiin natna thenkhat entirnan *Cysticercus bovis* leh African Swine fever (ASF) ah te chuan sa chu a pum a paih a ngai thin thung. Chung natna te chu a awm leh awmlah Meat Inspector chuan a rawn endik a, paih ngai lai a awm chuan paih in sa thianglim lo lai te chu phum emaw hal ral emaw thin a ni.

Rural Slaughter House, Mualpui

Rural Slaughter House ah hian license siam a in register te chauh sa talh tir thin an ni a. Chung ‘registered Butchers’ te chu TB test a negative vek an ni. Tin, sa chu

thianglim taka sawngbawl tur chuan tui thahnem tak a awm a ngai a, eng (electric current) tha tak a awm a ngai bawk. Chung mamawhte chu kan slaughterhouse ah hian awm vekin power backup (generator) a awm bawk. Sa chuan chhuat a deh loh nan sa khaina ah khai vek thin a ni. Heng bakah hian sa talh hnua phurhchhuah mai a remchan loh changa sa chu a chhiat mai loh nan ‘Cold storage’ a awm bawk a, hun engemaw chhung sa chu thianglim takin a vawng thei a ni. Sa thianglim tak kan ei theihna atan chuan slaughterhouse ngeia sa talh thin tur a ni. Chutih lai chuan kan ramah chuan Aizawl ah chauh slaughterhouse hman theih kan nei mek a. Mihring hriselna atana pawimawh em em pakhat chu sa thianglim ei hi a ni si a, slaughterhouse ah zel sa te kan talh theihna tura hmalak hi kan tih makmawh a ni.

KEIMAHNI :

1. PENSION :
(I) OFFICER :

(II) STAFF :

Sl No	Name	Designation	Date of Superannuation
1.	G.Sangluaia	Livestock Supt	31.1.2023
2.	Vanlalauva	JVEO	28.2.2023
3.	Rodingiana Sailo	Assistant	28.2.2023
4.	LN Royte	UBC	28.2.2023
5.	Dr Lalhmingshanga	Addl Director (VS & PH)	28.2.2023
6.	Dr Engkunga Chhante	Director (A)	28.2.2023
7.	Dr C.Lalsawthuma	DVC Khawzawl	30.4.2023
8.	Dr Lalrokima	Rualchhuawmsakuma Sr V.O.Polyclinic Hospital	30.4.2023
9.	Malsawmdawngliana	Vety Supervisor	28.2.2023
10.	Vanlalmawia	IV-Grade	28.2.2023
11.	B.Lalpianga	Vety Supervisor	31.3.2023
12.	Laltlankima	IV-Grade	31.3.2023
13.	Biaksailova	IV-Grade	31.3.2023
14.	K.C.Lalmawia	IV-Grade	31.3.2023
15.	C.Saidingliana	JVEO	31.3.2023
16.	Thangpuii	IV-Grade	31.3.2023
17.	Lalsawta	IV-Grade	31.3.2023
18.	K.Vanlalenga	IV-Grade	31.3.2023

3 . ORBITUARY (SUNNA) :

(I) OFFICER :

Sl.No	Name	Designation	Thihni
1.	Dr K.Lalchhuanawma	General manager,Selesih	25.2.2021
2.	Dr H.Pachhunga	Manager,PDF,Thingdawl	4.5.2021
3.	Dr Zirsangliani	Deputy Director (SZ),Lunglei	20.5.2022
4.	Dr Vanlalhraia Pachua	DVO ,Saitual	31.9.2022

(II)STAFF :

Sl No.	Name	Designation	Thihni
1.	F.Ramengzauva	Driver,DVO,Saiha	6.2.2021
2.	Lalngbaka	Driver,DVO,Kolasib	25.2.2021
3.	C.Saidingliana	JVEO,DVO,Lunglei	8.10.2021
4.	B.Sangluaia	VFA,DVO,Lunglei	11.11.2021
5.	Linda Lalremruati	P.E,DVO,Kolasib	8.11.2021
6.	Rokimi Poonte	H.A.DVO,Lawngtlai	2.2.2022
7.	Zoluta	IV Grade,RAHC Lungrang	12.2.2022
8.	Lalmawia	Mason,Directorate AH & Vety	19.1.2022
9.	H.Lalringgheta	VS,DVO,Aizawl	3.4.2022
10.	Lalhmingthanga	IV Grade,Vety Dispensary	6.6.2022
11.	E.Vanlalhriata	Mech Operator, AFP,Ramrikawn	24.10.2022
12.	Z.D.Kaptluanga	IV Grade,DVO,Lunglei	19.11.2022
13.	K.Lalthlamuana	Driver,Directorate	7.12.2022
14.	R.Lallungmuna	VFS,District vety Hospital, Saitual	4.2.2023
15.	K.C Tualchhingvunga	P.E. Distrit Vety Office, Champhai	9.4.2023

4. Vety officer thar lak belh : A hnuaia mite hi 15th March 2022 a Vety officer (contract) a lak thar te an ni.

Sl No.	Name	Address	Place of posting
1.	Dr John Beizalaise Khithie	Saiha,Mizoram	Manager,AH & Vet Farm,Mampui
2.	Dr Michael V.Lalrinzuala	Salem veng,Aizawl	V.O,Vety Dispensary,Ratu
3.	Dr Zothanpuui	Chhingchhip,Mizoram	V.O,Vety Dispensary,Lungsen
4.	Dr A.Lalramliana	Khawruhlian,Mizoram	V.O,Vety Dispensary,kawnpui
5.	Dr C.Lawmpuia	Dinthar,Aizawl	V.O,Vety Dispensary,Chawngte

5. World Veterinary day 2023 hman ani : World veterinary Day 2023 chu Tuma resort, Bungbanglaah 29th April 2023 khan hman ani a,He programme hi IVA leh AH & Veterinary Department tangkawpin a buatsaih ani a,He hun hi Dr Lalremliana IVA President in a kai hruaiin a vawikhat nan Pu Er Lalrinawma Hon’ble Minister AH & Vety Dept World Veterinary Day hi a hmanpui a,Tun kum World Veterinary theme chu Promoting Diversity,Equity and Inclusiveness in the Veterinary

Profession tih ani a,Theme chungchang ngaihnaawm takin Dr C.Lalmuanthanga,Asst Professor,CAU,Selesih hnen atangin ngaihthlak ani a,Dr Jonathan Lalsiamthara Ralte,Researcher Oregon Health and Science University hnen atangin Thusawi bengvarthalk tak ngaihthlak ani bawk. IVA member thahnem tak he hunah hian an tel bawk ani.

6. Chief Ministerin Mobile Veterinary Unit 26 a vailiam :Ran hriselna enkawlina veterinary service changtlung zawk ranvulhtute’n an kawtkai an

dawn theihna tura
hmalakna thar Mobile
Veterinary Unit (MVU) 26
chu ni 1.02.23 khan Chief
Minister Pu Zoramthanga
chuan CVSc&AH Play
Ground, Selesih atangin a
vailiam.Heng Mobile
Veterinary Unit (MVU) te hi
Livestock Health and Disease
Control Scheme hnuaia
programme pakhat
Establishment and
Strengthening of Veterinary
Hospitals and Dispensaries
(ESVHD) programme hnuaia
dilchhuah niin, MVU man hi
Central Sector component a
ni a, a vaiin (100%) central
government tum a ni.
Hnathawktu tur Veterinary
Doctor 26 leh paravet 26 te
lak fel tawh niin, manpower
outsourcing agency ah driver
hna pek a ni thung.MVU
vailiam puala inkhawm tawi
buatsaih hi AH&Vety
Secretary Pi Lalzarmawii
chuan a kaihruai a.
Veterinary & Fishery Board

Vice-Chairman Pu C.
Lalmuanpuia, Health & Family
Welfare Board Vice-Chairman Dr.
Z.R. Thiamsanga, Bamboo Link
Road Vice Chairman Pu
Ramthanmawia, Manpower
Development Board Vice-
Chairman Pu Zothantluanga leh
Commerce & Industries
Development Board Vice
Chairman Pu K. Laldawngliana leh
midangte an tel a. Addl. Director
Dr. Lalhmingthanga hnen atangin
report ngaihthlak niin, Director Dr.
Lalrinpuui Sailo chuan lawmthu
sawiin hun a khar a ni.

7. 39th ANNUAL MVSA

General Conference 2023 : MVSA
annual conference vawi 38-na chu
Ni 31 March (Zirtawpni) 2023
khan Vety Rest House, Selesihah
hman ani a,1st session 10am ah
tan niin Chairman Dr
R.Malsawma,President in a
kaihruaia,member 71 kalin,mi 12
in an pha bawk a.Member
chatuan ram min pan san tute Dr
Zirsangliani (L),Dr Vanlalhruaia
Pachau (L),Hon’ble member Dr
L.S.Hrahsel (L) leh Dr L.Siamliana
(L) te sunna hun hman ani a,hemi

zawh hian rorelna hun neih ani,Agenda 3 pawimawh tak tak te sawiho ani a,2nd session hi 2:30pm ah tan leh ani a chairman Dr Robert Rualthankhuma Vice President in kaihruaiin Welcome address Dr Lalrinpuui sailo Director AH & Vety & Adviser a nei a,chumi zawhah Thusawi Guest of Honour Pu Lalmuanpuia MLA,Vice-chairman SEDP leh Chief GuestEr Lalrinawma Hon’ble Minister AH & Vety hnen atangin ngaihthlak ani leh a,Minister chuan Department rawngbawlina ropui zia te sawiin ran kan vulh thin te an thang theilo a,an fek em em a,ei an tling har em em thin a tunah chuan thang duang chak leh thau chak takin kan thlak tawh a Bawnghnute pawh kawthler tinah lei turin an in chhawp chhuak tawh a,kan hnianghnar tawh thu leh Vety Department in theih tawp a lo chhuahna a zarah ram in hma a sawn chungchangah lawmawm thu a sawi ani.

8. SAILAGE SIAM CHUNGCHANGA TRAINER’S TRAINING NEIH

ANI :Silage siam chungchanga Trainer’s te training na hun pawimawh tak chu 2-4th May 2023 khan Thenzawl AH & Vety Farm complexah neih ani a,He hunah hian Dr Lalhmangaiha DD (D&FD) chu Course Co-ordinator niin Dr Lalmuanpuia Samte Manager,P&P,Thenzawl chu Resource person/Trainer ani bawh a,Training ah hian Districts 11 aiawh officer pakhat theuh an tel kim vek ani,Training hi theory,group discussion leh practical a silage siam zirna hun atana hman ani a,Participants te District tin tan silage siam zirtirna tur drums pek vek anni bawh,Closing programme hi Dr Lalrinpuui Sailo, Director,AH & Vety Department in hmanpuuin participant te hnenah certificates hlan anni.

ZAWHNA HUANG :

ZAWHNA: Vawk no ha (ngho) hi engnge tan kher a tulna?

CHHANNA: Vawk no te hi an pian tirhin ngho 8 , a chung lam ah 4 , a hnuailamah 4 neisa in a rawn piang a. Heng nghote hi a hriam in a sei hle a. A pui hnute an hnek lai ten an sehsak thin avangin , a pui hnute a lo na thin a, hnute pawh a pek duh loh phah thei. Tin anmahni an infiam a, an insehna ah tepawh, hliam in siamin, an in tipalh ve fo va. Natna dang ten a tlak buak duh bik ani. Heng nghote hi an pian hlim ah emaw, a tukah emaw, a chan tak tak hma in tan sak vat tur a ni. Nail cutter te pawh a hmantheih a, tan hma hian Dettol iodine emaw lo chhawp lawk a, an han tan zawh vele hruk nan hman tur ani.

ZAWHNA : Ka ran talh thin te hi asa engtinnghe tha takin rei tak kan dah that theih ang ?

CHHANNA : Ran kan talh reng rengin a thi chhuak tha thei ang bera talh tur ani a, ran te lam Ar ani emaw ran lian deuh bawng, vawk te pawh nise, kan talh laia a thi kan chhuah that tir khan a taksaah a thi tling kha a tlem anga chu chuan sa chu hun rei tak dah that naah a pui dawn ani, ran kan talh te a thi pawh haw tha hman mang lova kan puah hian an taksaah thi tling/chambangah khan natna hrik a lo in thlah pung duh thin a, chu chuan sa ati rimchhe hma thin a chuvangin hmanhmawh lo a thi chhuak hnem thei ang bera siam a ngai thin ani, hei bakah hian deep freezer, Refrigerator etc hmang ten a sa hi dah vawt that tur ani a, Sa hring hi Fridge pangngaiah ni 3-5 leh freezerah thla 4 atanga kumkhat te a dahthat theih thin ani.



