

# Broiler Ar Vulh Dan



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Guwahati, India



Mizoram State Rural Livelihoods Mission  
Rural Development Department  
Government of Mizoram

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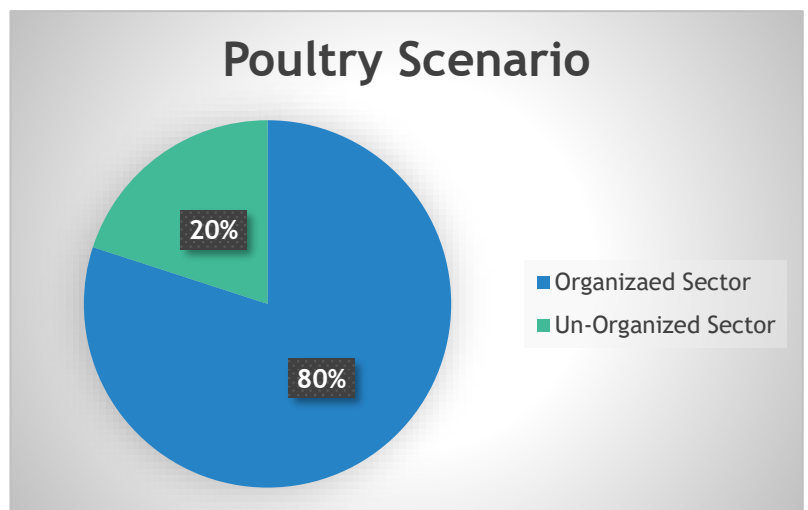
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## Thuhmahruai

India ram hi khawvelah arsa tharchhuah hnem lamah China, Brazil leh USA dawtah awmin palina a ni a, kum tina mi pakhatin kan ei zat pawh 400g atangin 2.5 kg ah a kaichho tawh a, hetih lai hian nutritionist ten an duhdan chuan mi pakhat tan kum khatah 10 kg a ni thung a, ram tamtak chuan kum khatah 20 kg vel an ei tawh a ni. Kan tharchhuah lama hmasawn erawh kan la mamawh nasa hle a, hmasawna kawng pawh a kaw viau niin a lang.

India ram pumah hian mihring tluklehdingawn 1.23 vel awm mekin kumtin kan pun belh a, tuna pawimawh ta ber chu mitin tana ei tur tha, hriselna leh khawsak lama hmasawna a ni. Mipuite hian sum an lakluh hnem chuan eitur tha a an sen a tam ve zel a, churang chuan eitur hrisel, mi nawlpuiin an lei theih tur chhawpchuah hi tun dinhmuna harsatna a ni. Artui leh arsa te hi mipui tam zawkin a an eiduh a nih bakah a man te a tlawm a, hei vang te pawh hi a ni ang broiler ar tharchhuah pawh engmah lo atangin Ton maktaduai 3.8 ah a kaichho dawrh mai a ni. Saah chuan ar lam hi awmze nei a intelkhawm tha ber a ni awm e. Broiler thar chhuahlama hmasawna hi kum khatah 10-12% lai a nih laiin agriculture pumpui anga hmasawna chu 2.5% chauh a ni thung.

India rama ar vulh lampang hlut zawng hi cheng vaibelchhe 80,000 (2015-2016) vel ni a chhut a ni a, hei hi hlawm hnih lian takah a then theih: pakhat chu sumdawna atan a awmze nei taka kalpui ho an ni a, hei hian a hlutna zawng zawng za a 80 (80%) vel changin pakhat leh chu awmze nei leh hlawm a vulh ni lem lo, mahni inbul vela mahni ei atan leh sum lakluhna hnar ber a hmang lo a vulh hi a ni, hei hian a arvulh hlutna zawng zawng atanga za a 20 vel a huam thung.



Livestock Census vawi 19-na a alan danin India ramah hian ar maktaduai 729 vel a awm a [Layer maktaduai 215 (30%), Broiler maktaduai 480 (40%)], hemi zinga vulh tam tham lo ho hian Contract farming system (Company lian zawk hnuai a vulh hlawh) angin an kalpui nasa hle. Ar vulhtu maktaduai 30 vel hi kawtkai a tlem tham te te a vulh an la ni bawk.

Awmze nei tak a a hlawm vulhte leh a hlawm lem lo a vulhte hi an mamawh a inang lo thei hle a. Stakeholder hrang hrangte biak kualnaah chuan, a hlawm a sumdawna atana vulh hoah hi chuan hmasawna langsar tak tak hmuh tur a awm in awmze nei takin lakluhna leh hralhchhuahna lam pawh kalpui a ni a, hetih lai hian a hlawm lem lo a vulh te hi chu an darh sarh in tlem te te in an vulh hlawm thung.

## Broiler Industry



Broiler ar hi India ramah chuan kum 1975 hma lam kha chuan kan hre ngai lo a, arsa kan ei tlangpui chu arpui tui zo tawh leh arpa te an ni mai a, kum 1975 hnu a sumdawna atan a tha tak ar, a sa pawh ni 60 vel a ei mai theih a rawn lut kha chu thilthar danglam a ni. Hatchery (ar awp keuna) nei ho ten broiler thlahtu tur ram pawn atangin an la lut a, Delhi ah inthlah pun tir hmasak niin a hnu ah South India lamah sawn thlak a ni ta a ni. Ar thlahtu atana hman te, artui awp keu tur te leh ar note keu tir te chetvelna hian broiler ar vulh chu hmun tinah a ti lar ta a, hatchery ten ar vulhtute hnenah hralhchhuakin an niin sumdawng te hnenah an pe chhawng ve leh thin. Heti hian kum 10 chung vel kha chu broiler ar kha sa lam a thil thar leh danglam deuh anga kalpui a ni.

Broiler ar chi tha zawk siam chhuak tur te, an chaw tha tur ngaihtuah te, inthlahpunna leh ar tihkeu lam a hmasawn zel tur te leh natna awm te enkawl dan tha zawk ngaihtuah reng rengin broiler vulh lamah hian hmalakna tam tak kalpui a ni a, hei vangte pawh hi a ni ang broiler ar ei an tlin hun hi ni 60 atangin ni 40 ah a tla thla tawh a ni.

Broiler ar vulhtu lo pung zel leh a ar enkawl thua hmasawna lo awm zel chuan Broiler ar vulh dan dinhmun a rawn thlak danglam chak hle a. Broiler ar vulh sensoah hian a chaw man hi a tam ber a; za a 65 vel tal sen a ni thin a, a arte manah hian za a 25 vel sen a ni thin bawk. Ar vulh atana kan mamawh kan lakluh zawng zawng za a 90 vel hi a arte manah leh a chaw manah a kal tihna a ni. Ar tharchhuah lam dinhmun hi ram pumah a rawn insawhnghet chho chak hle a, hetih lai hian vulh lian tham lutuk lo, an mamawh ang lei chawp thin ho senso leh tam tham taka vulha mahni mamawh ang arte leh a chaw tharchhuak thei ho senso erawh a danglam nasa hle. Broiler ar tharchhuaktu company lian tak tak a rawn ding chho ta a, tlem tham deuh a lo vulh ve thin ho tam tak chuan heng company lian hnuai ah hian an vulh hlawh chho tan ta a, hetiang a Contract Farming an tih ang chi a vulh rawn pung chho hian hma a tisawn chak hle. Contract farming anga vulhtu ho hian company tan a vulh tur tum khata dawngin a hralh hunah pawh tlem tlema hralh then zeuh zeuh loin tum khatah an hralhchhuak zo vek thei thin a. Anmahni ramah ar in te sak sak niin harsa taka lo neia eizawn ai chuan ei leh bar zawn kawngah an awlsam phah hle.

## Broiler Industry tihmasawntute

Tehna	1990	2015
Broiler parents housed (crore)	0.7	3.5
Broilers/month (crore)	5	25
Broiler feed price (Rs/kg)	20	30
Chicken per head (kg)	0.4	2.5
Broiler price/kg live (Rs)	25	65
Broiler integration	0%	60%
Broiler Feed Conversion Ratio	2.2	1.65
Days to slaughter (2 kg)	48	38
Multi-age group farms	90%	10%
Chicken processing	1%	7%
Antibiotics issue	Nil	50%

Arte leh a chaw man hi a pung chak hle a, arsa man erawh a pungmuang hle thung a; a tharchhuah dan tha zawkah hma kan sawn nasa ve leh thung a ni.

India rama ar vulh dinhmun hmasawna atana thil pawimawh thenkhatte han tarlang ila:

1. India ram a ar vulh dinhmun hi mipui mimir sum lakluh zat pung chho te, mipui vantlang khawsak lo ziaawm chho tate bakah ar vulhtu lo pung chho zel hian a tihmasawn chak em em a. Vulh dan tha zawk kan lo hre thar zel a, hei hian ar vulhna senso a tihniamin tharchhuahna leh hralhchhuahna a tana samsen a tihniam hle bawk a. Hengte hian broiler industry a tithang hle a ni.
2. Tharchhuah hmasawna leh hralhchhuahna dinhmun inher rem zelin hma a tisawn hle a. A arpum anga hralhbakah dahvawh leh vawn thatte hralhna a lo ziaawm zel te, a chaw atana hman vaimim leh bekang man lo ziaawm ve hret hret te hi hmasawna thlen chhotu tur pawimawh tak an ni bawk. Heng bakah hian natna thlendan zirchianna leh enkawlina leh venna lama hmasawna te hi broiler industry than chhoh nana thil pawimawh tak an ni chho mek.
3. Ar vulhtu tamtak hi kawtkaia tlem tham te te a vulh an la ni a, hengho dinhmun hian ram pum anga ar vulh dinhmunah pawh nghawng a nei lian hle. Heng backyard poultry ti a kan sawi mai te hi sum lakluh tipungtu pawimawh tak an ni chho mek a, ram nei mumal lo leh ram zau tak leh lian tham taka hma la thei lo abik takin thingtlang mite tan sum hnar tha tak a nih bakah eitur tha hmuhna hnar tha tak a ni mek a ni.
4. Ar vulh lama hmasawna leh dinhmun hi a insawhnghet deuh deuh zel a, natna khirkhkan tak Avian influenza kan han tih ten nasa takin tibuai mahse helama hmasawna nghehna leh private-a hma la te tawrhchhelna leh a hun taka sawrkar hmalakna chak tak ti lang chiang tu mai an ni.

# Broiler ar chi

## Commercial Broiler (Cobb/ Hubbard/ Ross)



Cobb Broiler



Hubbard Broiler



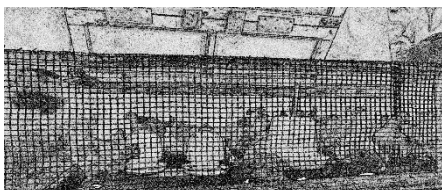
Ross Broiler

Broiler ar te hi khawtual ar kan vulh ai hian that zawkna tam tak an nei a, a langsar berah chuan an than chakna hi a ni (an keu tirh atanga ni 21 chungin 1 kg in an rih belh thei a, hetih lai hian khawtual ar te chuan hetiang rihna neih belh tur chuan thla 5 atanga thla 7 an duh thung).

Sumdawna atan a broiler vulh enkawl danah hian thiltih tur pawimawh tam tak a awm a :

1. An in tur a hranpa a duan bik, temperature 20-35°Celsius leh hmanrua pawh tawih chhe mai mai thei ni lo a siam ni thei se.
2. All in all out system (in khatah a rual a dah luh a, a rual a hralhchhuah leh vek) hi a tha ber.
3. Faina leh thianglimna leh natna awm thei laka inven dan tur uluk tak a duan tur.
4. An chaw tur bik a duan pek
5. Tui intur thianglim leh pH in balance tawk pek tur
6. Vaccine uluk tak leh mumal tak a pek
7. Anmahni pui tur damdawi leh enkawl na dang pek (ar laktirh atanga hralhchhuah thlengin)

Ar enkawl na kawng a thil pawimawh te chu:



Ar insak



Ar uap lum leh note enkawl



Faina leh thianglimna



Vaccine pek



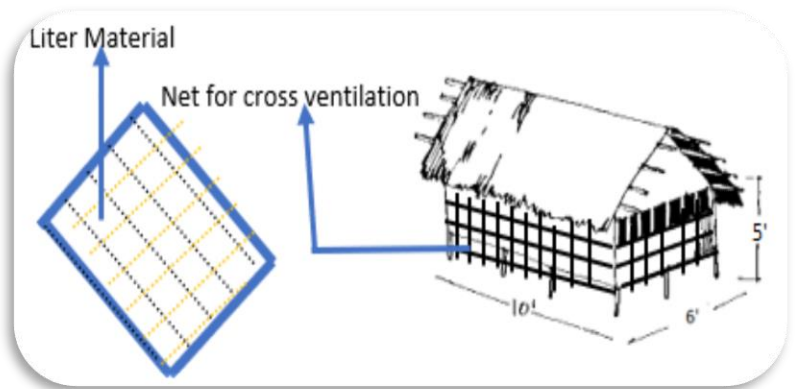
Chaw pek



Record vawn

## Ar in sak

- Ar inah boruak mumal tak a che vel leh eng tha a awm tur a ni.
- Ar pakhat (3.5 kg vel a lian) tan 1.5- 2 sq.ft vel
- Litter material (chhuat phah) chu 2-3 inch a chhah a ni tur a ni.
- Thingzai nawi emaw buh si emaw litter atan hian hman theih a ni.
- Inchung san zawng hi a tlem berah 5 feet tal a ni tur a ni.
- A chung atan ar in vawng dai thei tur hmanrua (thing) hman tur a ni a, rangva hman a nih chuan nipui laiin a chungah grass chhah deuh emaw vawngdai thei tur hmanraw dang phah a tha.
- Ar in chung temperature hi 25 to 30 degree celcius a vawn tur a ni a, hei hi nipui ah tuitheh emaw thlasik lai a a tilum thei tutur pekbelh in tih mai theih a ni.
- Ruahsur laia inchung a tuilut lo tur leh litter huh lo turin ruahmanna a awm tur a ni a, litter chu a lo huh a nih chuan thlak nghal vat tur a ni.
- Ar in bang chu boruak chevel awm reng theihna turin 1.25 feet aia sang a ni lo tur a ni.
- Ar in bang za zel a 80-90 chu boruak tha chevel a awm reng theih nan wiremesh a siam a ni tur a ni.
- Ar in dung lam hi chhak-thlang zawnga inkhawh ni thei se, a bang dung lam zawng (hmar lam leh chhim chhawng lam) hi net (wiremesh) hman nise. Hei hian nisain ar a em lutuk tur tam tak a veng thei a boruak thawveng tha tak a awm thei bawk a ni.
- Ar in sakna atan hian a natna hrik lo piang tur veng turin a theih hram chuan thil tawih chhe mai mai theilo chi hman ni se.
- Chhuat hi a nal lo tur a ni a, a theih phei chuan RCC a siam ni thei se.
- Thli nat lai chuan bang te thli na lutuk veng turin khuh a tha a, thli na lutuk hi ar in an hlau in an thih phah hial thei.



## Ar te uap lum leh enkawl

- Ar note chu a tlem berah 40gm a rit an ni tur a ni a, an harh tha in an ke pahnih in an ding thei tur a ni a, kutphah hnung lam a dahin an lum ther ther tur a ni.
- Ar no lakhlim hian lum an mamawh hle a, a kar khatnaah hian 100°F vel an mamawh a kar hnihna ah 95°F, chutiangin kar tin 5°F zelin a tihhniam zel theih a 80°F thleng a hniam thla thei a ni.
- An mamawh tawk aia boruak a vawh chuan an in hawr khawm a, hei vang hian anmahni an in rap hlum palh thei a, boruak a lum lutuk erawh chuan dehydration a thlen theiin ar te ek ro lutuk mawngah a in hnawh thin a, hei hian ek lamah harsatna a thlen thei.
- Ar te chet vel dan control turin chick guard siam tur a ni a, an keu atang a ni 4 chung vel chu arte pakhat tan 0.10 sq. ft vel hmunawl zuah sak tur a ni.
- Ar note te chu ni khatah vawi li tal an dinhmun hre tur a enfel/tlawh ziah tur a ni.
- Ar note che vel danna (chick guard) kan siam in a bial a siam tur a ni a, a kil a awm chuan ar note inhawrkhawmin an mahni an innnek hlum thei a ni.

- Chick guard san zawng chu 1-2 feet a ni tur a ni a, a hmanrua atan plane sheet, alluminium sheet leh plastic te hman theih a ni a, a chet sawn mai mai loh na turin chhuatah kilh beh tur a ni.
- Ar note te hi litter 3-5 a chhah litter ah dah tur a ni a, litter hi an keu atanga ni 4 chhung chu chanchinbu hlui phah hnan tur a ni a, chanchinbu hi nitin thlak tur a ni.
- Chanchinbu phah hnan hian tihfai a tih awlsam bakah ar note ten litter an eitur a veng.
- Ar note te tuilum leh electrolyte 2% (hetah hian kurtai leh chi uih ang chi chawhpawlh), Vit. A, D3, E leh Vit. B complex tui te pek tur. Natna do theihna (Immunomodulators heng selenium leh vit E te) pawh pek theih a ni. Electrolyte kan pek chuan kal hnathawh tanpuitu tur te pek a tha. Kurtai leh chi uih kan hman chuan electrolyte pek kher a ngai lo.
- Ar note te chu eng pek tur an ni a, an in a bulb dahsak hian an eng leh lumna mamawh a puhru thei.
- Chick guard len zawng hi ni li na atangin nitin zauh hret hret tur a ni a, ni 12 atang a ni 14 an tlin chuan a zauzawng tur dik tak (1.5/2 sq. ft) a tling tawh tur a ni.

## Ar in tihfai leh thianghlimna

- Chick guard te chu hman an nih hma in silfai a tih thianghlim nghal tur a ni.
- Litter te chu a ro a dah reng tur a ni.
- Chinai hi nipui leh thlasik laiin kar hnih ah vawi khat leh ruahsur laiin kartin litter kg 1 ah 20-50gm telh thin tur.
- B-904 spray hi tui litre khat ah 8 ml pawlhin kar hnih ah vawikhat tal ar inah spray thin tur.
- Ar inah ar dang te kal tir emaw riah tir loh tur.
- Ar thi te chu uluk tak a chinai nen a phumbo tur a ni a, vawk te kan pe dawn a nih chuan tha tak a chhum hmin hmasak tur a ni.
- Ar tui leh chaw pekna te kartin tihfai thin tur. Tui pekna te hi thil bal leh mawm bet lo tur a fai tak leh uluk tak a sil thin tur.
- Tui in tur pH chu 6.5 a ni tur a ni a, tui tithianghlim thei tur chi telh tur a ni.
- Ar hralh chhuah zawhah ar in chu natna hrik tihlum thei turin disinfectant leh fumigation hmang a tihfai tur a ni.
- Litter hman hnute chu ar in atanga 100 metre velah tal paih tur a ni a, anih loh chuan hal ral tur a ni.
- All-in All-Out system (ar a rual a dah luh a, a rual a hralh chhuah leh vek) dan hi zawm a tha.

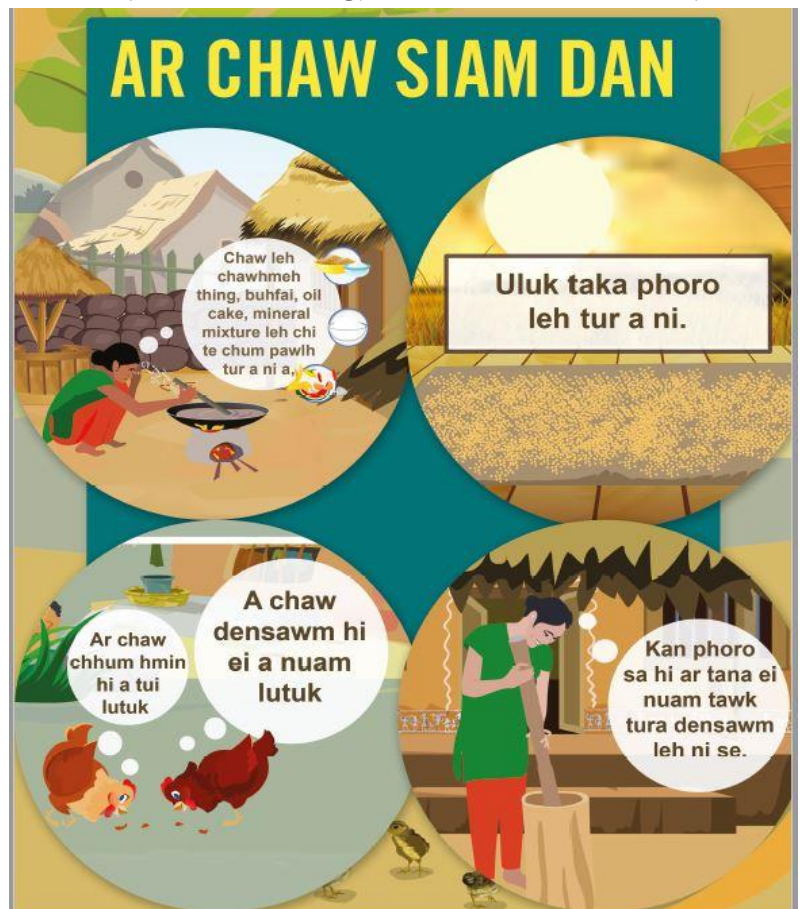
## Vaccine pek

Sl. No.	Upat lam	Vaccine	Pekna tur	Dose
1	Ni 1	ND Killed	A vun kara chiu	0.2 ml
2	Ni 5	B1	Mit thlawr	Far 1
3	Ni 12	IBD	Mit thlawr	Far 1
4	Ni 40	LaSota	Tui in turah	Ar 100 tan tui litre 3 -ah a damdawi pawlh tur
5	Ni 55	LaSota	Tui in turah	Ar 100 tan tui litre 3 -ah a damdawi pawlh tur



## Ar chaw pek

- Tui leh chaw pekna atan plate a hlai lam 2ft vel hman tur. Ar puitling tan chaw pekna khai chi, chaw 8 kg vel leng tur leh tui inna 5 litre vel leng tur ar 100 zel tan tui inna leh chaw pekna 3 ve ve a tawk a, ar note 100 tan chuan tui inna 1 (litre 1.5- 2 dawng) leh chaw pekna plate 1 (feet 2 a hlai leh 1.25 inch a sang) a tawk.
- Tui leh ar chaw pekna te hi rawng sen a ni tur a ni a, rawng sen hian ar a hip avangin chaw leh tui an ei that phah thei.
- Chaw hi an duhtawk a an ei theih tur an thlengah chhawp sak reng tur a ni.
- An keu atanga ni 10 chung chu pre starter ration (pianghlim chaw) pek tur a ni a, chumi zawh ni 10 chung dang chu starter (a note chaw) pek leh a, a bak zawng chu hralhchhuah an nih hma finisher ration pek tur.
- Heng chaw chi hran hran te hi kan thlak dawnah vawi leh khat a thlak thut lo in zawi zawi in thlak chhoh tur a ni. Entirnan, pek tan hma ni 3 chung kha chaw thar pek tur zat kha za a 20 vel pek tel phawt a, zawi zawiin za 40, za a 60, za a 80 leh za a 100 a thlak chhoh tur.
- Chaw thlak apiangin anmahni tanpui tur liver tonic (thin chakna) pek tel a tha.
- Vaccine pek hma leh pek hnu ni 2 chung chu an immunomodulator (natna do theihna ti chak tur) heng selenium leh vitamin E pek tel tur.
- Chaw siamsa a awmlah chuan ar note te chu pre starter leh buh leh wheat emaw buh lam chi 2 mm aia lian lo a tih keh a, chawhpawlh a pek tur.



Sl. No.	A chaw	Mamawh zat	A fang len zawng (mm)	Energy (Kcal/ kg)	Protein (%CP)
1	Pre-Starter	250 gm per bird	1.5 mm	2900	22
2	Starter	750 gm per bird	2.5 mm	3000	20
3	Finisher	Ad libitum (A mamawh ang tawk zelin) Chaw chhum pangngai nen a zat leh zatin a pawlh theih bawk.	3.5 mm	3200	18

- Chaw siam chawp : Buh leh vaimim lam chi densawm hi Oil Seed Cake. Chi leh mineral mixture-te pawlhin ar tan chaw tha tak a ni thei a, an chaw paitawihna puitu a ni thei bawk.
- Tui leh temperature hian ar in chaw an ei that leh that loh ah kawngro a su hle a, tui a vawh lutuk emaw lum lutuk chuan ar in chaw an eizat a tlahniam thin. Chuvang chuan thlasik laiin tui lum pep pep leh nipuiah tui vawt deuh hlek pek thin a tha.
- Chaw pekna hi ar hnungzang nen a inchen velah khai kan tur.
- Ar vulhtu chuan ar in hi nikhatah vawi 5 atanga vawi 7 tal a tlawh tur a ni a, A tlawh a piangin chaw pekna a chaw te chu a kut in a chawhpawlh thin tur a ni a, chaw pekna hi nikhatah vawihnih tal tih khah belh thin tur.

## Than dan leh an chaw ei dan

**Ar note pianghlim rih zawng :** 40 gm (ar note 40 gm aia zang te chu an damchhuahna chance a hniam avangin vulh tlang loh a tha)

Sl. No.	Upat lam	Rihzawng	Ni khat a chaw ei zat	FCR
1	Ni 7 / Kar 1	190 gm	35 gm	0.9
2	Ni 14 / Kar 2	465 gm	68 gm	1.16
3	Ni 21 / Kar 3	943 gm	111 gm	1.26
4	Ni 28 / Kar 4	1.53 kg	152 gm	1.4
5	Ni 35 / Kar 5	2.2 kg	189 gm	1.53
6	Ni 42 / Kar 6	2.9 kg	216 gm	1.67
7	Ni 49 / Kar 7	3.5 kg	235 gm	1.81
8	Ni 56 / Kar 8	4.1 kg	245 gm	1.96

\*Cobb 500 broiler performance guidelines supplied by Cobb-Ventress

\* FCR=Feed Conversion Ratio (A chaw ei mila a taksa thandan)

## Record vawn that

- Record fel tak a vawn hi sumdawna a hlawk leh hlawk loh tehnan a pawimawh hle.
- Record hi chi hnih vawn a ni thin:
  - Production records: Hei hian kan sumdawna in a tharchhuahna lam a thil pawimawh zawng zawng, heng ar note rih zawng, an than dan, thihna thlen dan, natna awm dan leh vaccine pek dan te a huam.
  - Financial Records: Hei hian pawisa lampang kaihnawih heng ar note man, ar note lakna, hralh chhuah ni, hralh chhuahna zat, hralh chhuah lai a an rih zawng, chaw a sum senso, chaw man, ar note man leh sum hmanna dang te.
- Hrileng leh thihna a thlen in record felfai tak a kan vawn chuan a chhan awm thei leh hmalak dan tur hriat a awlsam.
- Heng record te hi farmer's card a hmun khatah uluk tak a vawn tur a ni.



## Ar vulh senso leh laklulh chhutna (Ar 50 tan)

CBA (Cost Benefit Analysis) of a Small Broiler Rearing unit			
Parameter	Unit	Value	Remarks
<b>Unit Size</b>	<b>No</b>	<b>50</b>	
Hralh an nih a an rih zawng	Kg	3.5	
Vulh hun chung	Ni	70	
Thih dan	%	7	
No. of Cycles in an year	No	4	
Ar note man	Rs./Chick	50	
Vaccine leh damdawi man	Rs./Chick	5	
In tihfai leh tih thianglimna a senso	Rs./Bird	5	
Ar chaw pack sa lei zat zawng zawng	Kg./Bird	4	250gm Pre-Starter, 750gm Starter, 3kg finisher
Ar chaw pack leina a senso	Rs./kg.	40	
Ar chaw man dang atana senso	Rs./Bird	25	Chaw chhum chawp (Mineral mixture leh chi pawlh) ni 20-na atangin ar chaw pangngai nena pawlh
Chaw man a tan a senso	Rs./Bird	185	
Sum hmanna dang	Rs./Bird	5	
Expenses (Senso)			
Ar in sakna	Rs.	1500	
Ar note man	Rs.	2500	
Vaccine leh damdawi man	Rs.	250	
In tihthianglimna atana senso	Rs.	250	
Chaw man	Rs.	9250	
Sum sen so dang	Rs.	250	
<b>Total</b>	<b>Rs.</b>	<b>14000</b>	
Revenue (Hmuh)			
Sa hralhchhuah zawng zawng zat	Kg	163	5% thi anga chhut
Sa man	Rs./kg.	150	
<b>Sum hmuh</b>		<b>24413</b>	
<b>Cycle 1-a hlep</b>		<b>10413</b>	
Kum 1 a Cycle zat		4	
<b>Kum 1-a hlep</b>		<b>41650</b>	

## Ar natna tlanglawn thenkhat

### New Castle Disease (NCD) / Ranikhet Disease (RD)

He natna hi virus chi khatin a thlen a ni a, thawkna lam harsatna leh nerve lam harsatna angin a lang chhuak thin.

#### A lanchhuah dan

- Thawhah ang tak leh thawkna lam harsatna angin a langchhuak thei a, khuh leh hahchhiau te a awm thei bawk. Nerve lam hatsatna a thlen thei bawk a, a thla zeng ang taka awm te, kal leh chet vel harsatna te, ringkawi ang taka thledeuh tlat te, a hmai bawk vela vung ang taka rawn awmte leh kawthalo chalk tel ang maia var deuh te a awm thei.
- He natna hian ar vulhtute nasa takin a nghawng thin a, ar in an thihpui nasa thin a, a thi lo pawh an than tur angin an thang thei thin lo. Ar tui chi ah pawh an tui a tlakhniam phah viau thin. A vennis vaccine pek a pawimawh em em a, enkawl a harsat avangin invenna lama kan tih theih ang ang a kim thei ang bera tih vek a pawimawh hle. Ar in vawn fai leh enkawl that a pawimawh hle bawk.

#### Enkawlna

A enkawlina bik damdawi a awm lova, virus-in a thlen anih avangin antibiotic hian damna a pe tak tak thin lo. Natna dang lo lang mai thei venna atan antibiotic leh a tul ang dang te doctorin a chawh angin pek tho tur a ni.

### Infectious Bursal Disease (IBD)

He natna hi virus chi khatin a thlen a ni a, ar note leh a thang lain an tuar nasa thin hle a, thihpui an tam lutuk loh pawhin an than a ti thu nasa thin hle.

#### A lanchhuah dan

- Ar an nguiin an pawr a, kal leh chet vel harsa takin an awm thin a, kawthalo a nasa thinin an e tui deuh puat puat thin. A mawng bawr a berh nuaih thin a, inchuk an ching thin bawk.
- He natna hian taksa ralveng khawl a tibuaiin a tichhe thin a, vaccine hnathawh pawh a tibuai thei thin. He natna laka inveng tur hian vaccine pek leh faina leh thianghlamma a pawimawh hle.

#### Enkawlna

A enkawlina bik damdawi a awm lova, virus-in a thlen anih avangin antibiotic hian damna a pe tak tak thin lo. Natna dang lo lang mai thei venna atan antibiotic leh a tul ang dang te doctorin a chawh angin pek tho tur a ni.

### Nutritional Deficiency Diseases (Tlakchham avanga natna)

**Vitamin A:** Ar an thang thei lo a, an nguai a, an pawrin an kal vel a nghet lo em em thin. A mit vung leh phui deuh te hnap tla ang deuh te a awm thin bawk.

**Vitamin B1** Ar in Vitamin B1 hi an tlakchham chuan chaw an ei tha lo tial tial a, an rihna a tlahniam viau thin. A lo rei deuhin a thla leh nghawng vel a zeng a, a taksa peng dang pawh a nghawng chho zel thei. A tir lamah chuan chaw harsa takin an lem tawk tawk thin a, a lo rei deuhin an vanvadak a, an thi zui deuh mai thin.

**Vitamin B6:** Ar an thang muang em em a, an hmul a pawrin chaw an ei mumal lo viau thin. A rei hnuin kaih ang deuha awmin an thihpui thei.

**Vitamin D:** Vitamin D hi ruh insiam nan a pawimawh em em a, ar-in a tlakchham chuan ruh insiam leh puitling chho zel turah nghawng tha lo tak a nei thin. Ar than a thuin an pawr em em a, ruh chuktuahah bawk te a insiam a, thenkhatah chuan a hmui hmawr chang tha tak tur kha a nem vek thin.

**Vitamin E (Encephalomalacia, Crazy chick disease):** Ar note kal tha thei mang lovin an tlu tep tep thin a, thenkhatah chuan an ke an kar vak a ke khur deuh chur chur te a awm thin bawk.

### Pullorum Disease (Bacillary white diarrhoea)

Ar note in an tuar nain an thihpui nasa thin a, a puitlingah chuan natna lang mang si lo a natna hrik pai rengin an awm thei.

#### A lanchhuah dan

- Ar note nat lawkna hriat mang lohin an thi ringawt thei a, thenkhatah chuan an nguiin chaw an chuk tha peih lova an che chang peih mang lo thin. Kawthalo a nasa thin a a rawng pawh a var deuh thin.
- A vennis faina leh thianghlimna a pawimawh hle a, hetiang deuh a arte kawthalo an awm chuan dah hran theih nise.

#### Enkawlna

Antibiotic peka enkawl dam theih a ni a, doctorin a chawng ang zela damdawi pek mai tur a ni.

### Coccidiosis

Protozoa kan tih mai ten an thlen a ni a, ar in an thihpui nasa in an than pawh a ti thu nasa thin hle.

#### A lanchhuah dan

- Ar an nguiin an pawr em em a, an than a thut bakah kil khata tawm khawm tlat te an ching thin. Kawthalo leh ek a thisen tel a awm thin bawk.
- A chaw thianghlim lo atangin an kai tam hle a, kan ar chaw dah te hmuar lo tura vawn that a pawimawh hle.

#### Enkawlna

Natna enkawl theih tak a ni a, a damdawi bik (anticoccidial) doctorin a chawh anga pek tur a ni.