

KA JINGAI JINGTIP HALOR KUMNO BAN RI IA KI MASI AIDUD BAD BAN PYNMIIH IA KA JINGBAM NA KA BYNTA JONG KI



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KA JINGLAMPHRANG

Ka Meghalaya ka long ka jylla ha kaba ka jingim ba kongsan jong ki biew ka long da ka rep ka riang bad ka rep ka riang ka long ka jingplielad jong ka mariang ha kaba ki jingri ki don la ka jong ka jingai jingmyntoi bad pynlah ia ki biew ban rep ban riang bad ri jingri ha kajuh ka por. Kat kum u snem 2013-14, ka jingpynmihdud ha ka jylla ka long kumba 82.16 hajar ton. Ka jingri ia ki masi aidud ka long ka jingphai khmat ba kham thymmai ha ka jylla bad bun na ki nongri ia ki masi aidud ha ka jylla ki long ka pateng banyngkong jong ki nongrep. Kat kum ka livestock census 2012, ka jylla Meghalaya ka don kumba shi million ki masi. Na kine kumba 30,000 ki dei ki masi khem dud kiba la pynshongkha khleh ia ki (cross breed) bad la ri da ki nongri masi aidud kum ki seng synrop lang (Co-Operative) bad ki nongrep ba khamrit bad malu mala. Kine ki masi ki la noh synniang haduh kumba (90%) na ka shispah jong ka jingpynmih dud ha ka jylla. Ka jinglong jong ka suinbneng bad ki sawdong sawkun jong ka Meghalaya ka long kaba biang bad iahap bha ban kyntiew ia ka kam ri ia ki masi aidud. Watla ka jingpynmihdud ka long kaba la kiew sted, donkam pat na ka por sha ka por ban ioh ia ki jingtip kiba iadei bad kane ka kam ha ka por kaba biang bad banym long kiba khein sting. Ka jingpynmih ia ki jingbam masi ka long kaba donkam na ka bynta ki kam ba ri masi aidud, bad ka jingtip ia ki jait jingbam bad ki phlang batei ka long kaba donkam. Kane ka jinglumthup la pynmih ban ai jingsngewthuh ia ki nongri jingri bad ki samla ba nang ba stad kiba kwah ban ri masi aidud, ba kin

kyntiew bad pyntbit ia ka jingtip jong ki, khnang ban pynlah ia ki ban pyniaid ia ki farm jong ki ha ka rukom kaba suk bad ba duna jinglut. Ka jingri ia ki masi aidud ha ka jylla, nalor ka jingpynmih dud ban dih ka iarap ruh ban pynkiew ha kaba tei iaka met ka phad ha ki jaka nongkyndong.

Wat lada ha ka jingshisha kiba bun ki nongri masi aidud ki don ia kita ki masi bakhamp bha(Exotic cows), ka jingpynmih dud pat ka dang long kaba duna. Kane ka jingduna ka lah ban long namar:-

1. Ka jinglong ka rukom sumar khamtam ha ka jingduna ka rukom aibam
2. Ka jingduna ha ka liang ka koit ka khiah
3. Ka jingduna ha ka ban pynroi kaba lam sha ka por kha kaba jrong.
4. Ka jingbymdon jingtip kaba biang ia ki jingpang kiba ju kham ktah bad ban ai jingsumar na ki jingpang.

KI MAT

Sl. No	Sla ba:
1. Ka rukom ri ia ki masi aidud	: 4-5
2. Ka jingjied ia ka jaka	: 6-9
3. Ka jingpynkhreh ban sdang bad shna ia ki sem ne ing ri masi aidud	: 10-11
4. Ki masi aidud	: 12
5. Jingjied ia ki masi aidud kmie	: 13-16
6. Jingsumar bad rukom phikir ia ki khun masi, masi lud bad masi kmie	: 17-18
7. Ki jingpang ba ju ktah ia ki masi bad kumno ban iada bad sumar na ki	: 19-21
8. Ka por ban ai tika	: 22-23
9. Ka jingbuah ia ka kot lumjingtip	: 24-25
10. Ka jingkynthup	: 26-27
11. Ka Jingpynmih iaka dud kaba khuid	: 28-29
12. Ka Jingbuah slem iaka dud	: 30-31
13. Ka rukom ai tika bad ai dawai wieh.	: 32
14. Ki jingpang kiba kham kynrei: Ki jingtehlakam bad jingiada	: 33-34
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LYNNONG-I

Rukom ban ri ia ki masi aidud.

Ha Meghalaya ia ki masi aidud bunsien la ri ha ki 3 tylli ki rukom:-

1. Zero- Grazing [jingbatai:- Set ha sem khlem pyllait ban bam phlang]

Ia ki masi la set ha sem bad ki nongri ki wanrah ia ka bam ka um ia ki masi ka jak ba la set iaki. Ka jingset khlem pyllait shabar ka wanrah ia ka jingkiew ha ki jingpynmih dud kumba 15-30 litre kawei ka masi.



2. Semi-Zero- Grazing:- Pyllait bam phlang ryngkat ka ai bam ha sem. Ia ki masi la set hynrei la pynlait bam phlang kumba katto katne kynta ha ka shisngi.



3. **Open Range:-** Hangne ia ki masi la pynlait bam phlang sha lum baroh shisngi bad la ai um bad mineral ha ki jaka bam phlang.



Khambun na ki nongri ba malu mala ki kham pyndonkam ban pyllait ia ki masi ban bam phlang sha lum. Kaba kumno kumno ka rukom ba ki nongri ki jied ka donkam ban da phikir bha shwa ban ri na ka bynta ban ai bam ia ki masi

LYNNONG – II

Jingjied ia ka jaka.

Ka jingjied ia ka jaka ka long kaba donkam namar ka jaka kaba biang ka pynlah ban shna ia ki ing bad ban pynsuk ban pyniaid ha baroh ki liang.

Ka jaka kaba bha ka dei ban don ia kine ki mat ha ki jingmut:-

1. Ka ing ba ri masi aidud ka dei ban long ha jrong halor ban ia ki sawdong madan khnang ban lah ban pynlong sharing bad ban tuid ka um slap bad um nala.
2. Ka khydew nongrim kam dei ban long tyrkhong palat naba kum kine ki khydew ki ju klo i ban at ha ka por slap bad pynlong ia ki jingpdang bad jingorpait.
3. Ki sem masi ki dei ban phai shaphang shatei bad shathie ban ioh sngi bha.
4. Ki jaka ri masi aidud kim dei ban don marjan bad ka suroh bah.
5. Ka um ka dei ban pahu.
6. Ka jingdon jong ki nongtrei kiba hok, shida, kiba kunai bad ba tista.
7. Ki jaka ri masi aidud ki dei ban long ha kita ki jaka kiba u trai nongri u lah ban die ia ki jingpynmih jong u ban ioh jingmyntoi.
8. Ka jingdon jong ka bor ding electric bad ka surok ba suk bad ba bha.

Ka jingpynkhreh ban sdang bad shna ia ka sem ne ing ki masi aidud.

Ki jait sem masi ha ki por mynta:-

1. Loose housing[kaba buh ia ki masi ha kajuh ka jaka ba la ker]
2. Conventional housing[ki ing ba tap tnum]
 - a. Khlieh para khlieh
 - b. Tdong para tdong

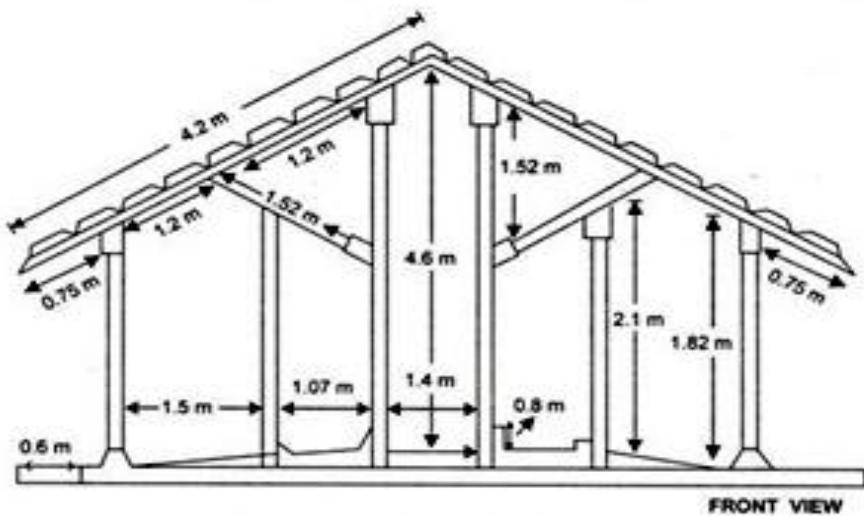


LOOSE SYSTEM OF HOUSING



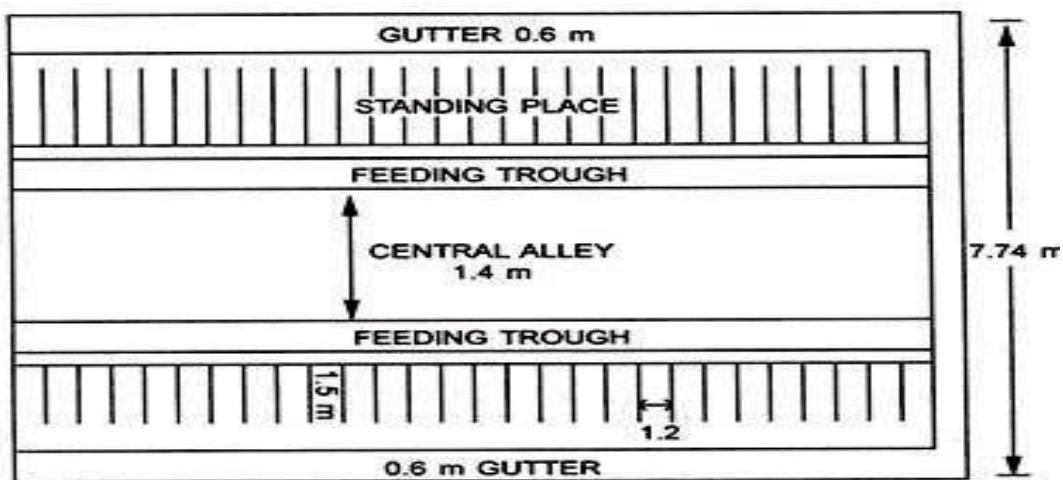
HEAD TO HEAD SYSTEM OF HOUSING

Ka jingpeit ia ka sem masi ba phai khlieh para khlieh



Ki jingmyntoi ki ing ba buh khlieh para khlieh

1. Kham iahap na ka bynta ki sem ba kham rit
2. Ka jingioh jingshai na shadien
3. Ka khamsuk ban ai bam



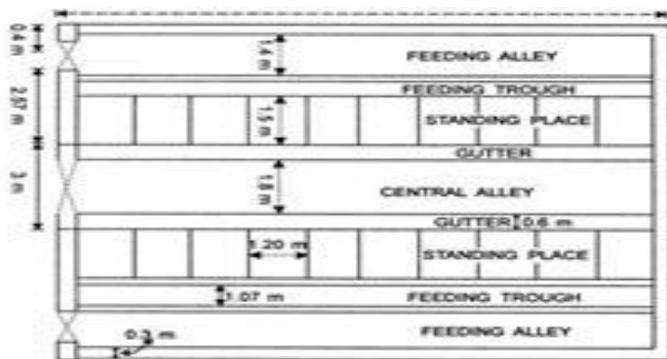
Gutter- Tnum nala

Standing Floor-Jaka ieng

Central alley- Lynti pdeng

Feeding trough- Jaka ai bam

JINGKHMIEH NA JRONG IA KA SEM DA PHAI KA KHLIEH PARA KHLIEH



KA JINGKHMIEH NA KHMAT IA KA SEM KABA PHAI TDONG PARA TDONG

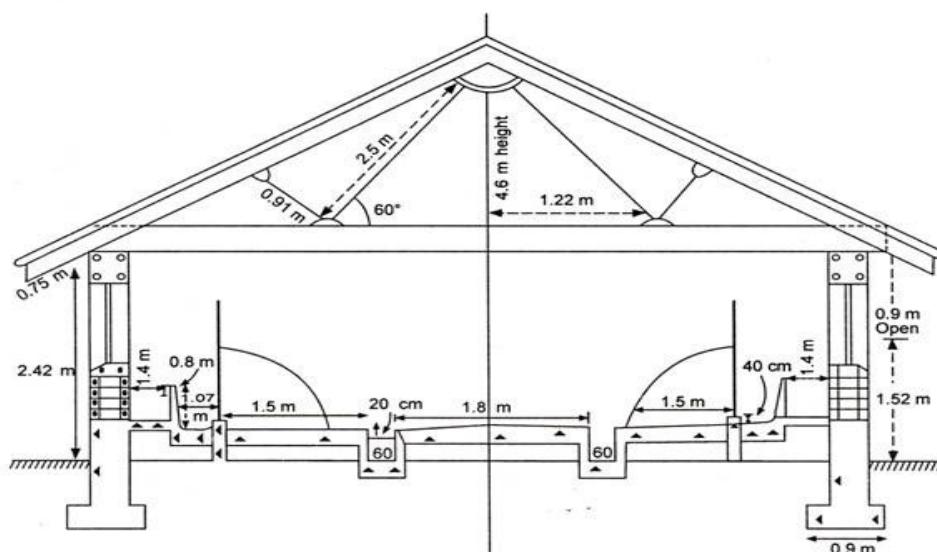


Fig. 44.4. Sectional View of Tail to Tail Barn

Ki jingmyntoi ki sem ba phai tdong para tdong

1. Ka lynti pdeng ba kham iar ka pynsuk ban pynkuid bad khemdud ia ki masi
2. Ka jingma jong ka jingsaphriang ka jingpang na iwei I masi ka kham duna
3. Ki Masi ki kham ioh bun ka lyer khuid ba wan na shabar

Ka jingdonkam jong ka jingiar ka madan na ka bynta ki masi

Ka rta	Jingiar ka jaka buh phlang(m^2)	Jaka ba tap (m^2)	Jaka buh masi habar (m^2)
4-6 bnai	0.1-0.3	0.8-1.0	1.6-2.0

<u>7-12 bnai</u>	0.3-0.4	1.2-1.6	2.4-3.2
<u>1-2 snem</u>	0.4-0.5	1.6-1.8	3.2-3.6
<u>Masi ba pynkhem</u>	0.8-1.0	4.0	8.0
	1.0-1.2	10-12	20-24

Ka rukom pyntrei farm kaba biang.

Por	Kamram
4.00-4.30	Pynkhuid ia ki eit masi, jingbam, soh jingbam bad ka um
5.00-6.00	Sait ia ka jymbruin masi, test ia ka dud bad khlein ha ka dud
6.00.6.30	Weng iaka dud bad ia ki jingpynmih na ka dud
7.00-9.00	Pynkhreh, thew jingshit, ai jingsumar
9.00-11.00	Ai jingbam phlang/ pyllait bam phlang, jingbam masi
11.00-1.00	Break
1.00-2.00	Ai jingbam, um bad jingsumar
2.00-4.00	Khem dud, test ia ka khlein ha ka dud
4.00-5.00	Weng ia ka dud/ ai bam phlang

LYNNONG- III

Ki jait masi aidud.

Ki masi ai dud kiba kham kynrei ki long:

The Holstein Freisien



Jingmut:- ka jingpynmih dud: 7000 litar ha ka 305 sngi bad ka makhon 3.5 % bad 8- 8.5 %. Ka jingheh jong ka mat: Baheh (500-550 kg):

Jinglong ka dur ka dar:- Baiong bd ba lieh, shniuh ba lyngkot bad rong ba lyngkot

The Jersey



Jingmut:- jingpynmih dud:- 5000 litar ba ka bynta 305 sngi bad 4 % ka makhon

Ki jait masi ai dud kiba napoh jylla ki kynthup Gir, Tharparkar, Sahiwal, red sindhi bad kiwei. Ki lah ban pynmih kumba 5-10 litar ka dud bad ka dud ka long kaba bha ha ka liang ka jingtei ia ka met ka phad. Ki donkam kham khyndiat ka bam kumba 15-20 kg ha ka shisngi bad kikham lah ban ialeh pyrshah ia ka pang kpoh bad ia ka jingpang na ka jingdait ki simat. Ka snem ba kin heh pura ka long 3 snem bad ka por ba ki lah bn pun ka long 1 snem shiteng.



BREED	GIR	BREED	THARPARKAR
Origin	Saurashtra, Gujarat	Origin	Tharparkar, Pakistan
Appearance	Dark brown skin with white patches and half moon shaped horns, pendulous ears	Appearance	White to light grey skin and compact body
Milk Yield	1250-1800 kg	Milk Yield	1800-2500 kg
Age at first calving	45-54 Months	Age at first calving	38-42 Months



BREED	RED SINDHI	BREED	SAHIWAL
Origin	Karachi, Pakistan	Origin	Sahiwal, Punjab
Appearance	Pale red uniform skin with upwardly curved horns and drooping ears	Appearance	Dark brown loose skin with symmetrical body
Milk Yield	1250-1800 kg	Milk Yield	1400-2500 kg
Age at first calving	39-50 Months	Age at first calving	37-48 Months

LYNNONG- IV

Ka jingjied ia ki masi aidud.

Ka jingjied ia ki masi aidud kiba bha ka long kumne harum:

1. Na ki jinglum jingtum kum ki jinghiar pateng, jingbuu jingtum lada, ki khun ba la kha na ki juh ki jait masi bad kumta ter ter
2. Ka masi aidud kaba bha ka dei ban don ia ki sohbuin kiba treikam bad kiba wandu bha bad phai pyrshah iwei ia iwei
3. Ka (udder) jingprum na ki bynta ba pynmih dud naneng ki sohbuin ka dei ban don hajrong ki (Hoek) I bynta ba bteng ka kjat dien bad iadait bha bad ka trai kpoh jong ka met
4. Ki dei ban don ia ka met ka phad kaba plung bad ba wandur bha
5. Kam dei ban don kino kino ki jingat ha ki kti ki kjat
6. Ka dei ban don ki khmat ba phyrnai bad u ryndang uba kham raikhoh
7. Ka snep jong ka jymbruin ka dei ban long ba ki thied ki jam kin iaid bha.



LYNNONG V

Kaba ri ia ki khun masi.

Rukom ban pynheh pyngan ia ki masi aidud:

1. Buh ia I khun bad ka kmie
2. Rukom pyngangeh ai dud
 - a. Pyngangeh mardor tang mar ia dep kha
 - b. I khun masi idei ban don lang bad ka kmie kumba 2-3 sngi nangta sa meng bad buh ha ki jaka ba buh ia ki khun masi (Calf pen).

Jingphikir por ba kha khun.

1. Hadien ba la kha ia I khun masi pyntikna ba I khun masi in lah ban ring mynsiem . Lada don jingthut ha kaba ring pyngiar mynsiem, donkam ban iarap da kaba pynguid ia ki (mucous) eitmut ba kah ha ki thliew khmut, bad lada ba I khun masi in lait ring pyngiar mynsiem bat ia ki kjat ba shadien jong I khun masi bad pyngoh khongpong ia ka khlieh sha khyndew bad sa kynting bun sien.
2. Ia u sohpeta dei ban ot bad sat ah da ka iodine lane copper sulphate.
3. Lada I khun masi im lah ban tan bam, donkam ban iarap ba in ioh ia ka dud nyngkong na ka kmie ha ka taiew ba nyngkong. Ka colostrum kaba tam dei ban buh ne ai noh ia kiwei pat ki khun masi.
4. Ia ki khun masi donkam ban ai dawai wieh na ka bynta ki wieh snier da kaba ai tang shi dose jong ki dawai wieh kum ki anthelminthie drugs.
5. Dei ban ai colostrum ia ki khun masi hapoh ka shiteng kynta ka por hadien ba la dep kha.
6. Ia I khun masi ba dang shu dep kha dei ban buh la ka jong ka sem ba la shna kyrpang kumba 3-4taiew.

Jingajingbam ia I khun masi

Ka jingphikir ba nyngkong eh ha kaba sumar ia I khun masi ba long shu kha ka long ban pyntikna ba I don hapdeng ka jingkoit jingkhiah. Ka por ban ai jingbam ia ki khun masi ka long kumne harum:-

Rta	Dud (kg)	Skimmed Milk/ Dud ba la weng ia ka cream	Jingbam bas dang na ka bynta ki khun masi
1-3 sngi	Ai tang colestrum suda		
Haduh 2 taiew	5-6 litar	Ai pahuh	
Haduh 3 taiew	6 litar	Ai pahuh	Ai pahuh
4 taiew	5 litar	Ai pahuh	Ai pahuh
5 taiew		Ai pahuh	Ai pahuh
6 taiew	3 litar	Ai pahuh	Ai pahuh
7-8 taiew	2 litar	Ai pahuh	0.5 kg
3 bnai	--	Ai pahuh	0.7 kg
4-5 bnai	--	Ai pahuh	1 kg
6-7 bnai	--	Ai pahuh	1.2 kg
8-16 bnai	--	Ai pahuh	2 kg

Ki jingdon hapoh ki jingbam ba sdang na ka bynta ki khun masi:-

Ki jingdon hapoh	Bynta
Barley/maize/gram/ont grain	40
GNC/MOC/TNC	25
Soyabean meal	25
Dried skim milk	8
Mineral Mixture	1.25
Mluh	0.5
Yeast	0.25



CALVES PADDOCK



CALF PEN



OPEN & COVERED AREA FOR CALVES

Calves Paddock:-

Jingbatai:- Jaka ba set ia ki khun masi kaba don ka jingker, sem ban da na ki sngi, slap bad lyer. Ka madan ba ki lah ban mireh mastieh bad ban kyylanmet, u phlang bad ka um

Calf Pen:

Jingbatai:- Jaka kamra hapoh sem na ka bynta ban buh tang iwei I khun masi

Open and covered area for calves:-

Jingbatai:- Ka jingbuh lang ia ki khun masi shi jaka bad khlem jingker ha kajuh ka jaka

Sem ia ki khun masi:-

Ia ka sem khun masi la shna ha kaba lah ban ioh da kaba suk ia ki jingdonkam baroh. Dei ban shna ban don ia kine harum:-

1. Kaba don kumba 2 m^2 (1.2X 1.5 m) ka jingiar na ka bynta uwei u khun masi
2. Kaba tuid bha ka um bad jaboh lane ba biang ban thiah
3. Ba ioh jingshai bha/sngi ne lait
4. Ba ioh lyer bha
5. Ba skhem na ka jingshah prong pynjot na ki mrad bam masi
6. Ki ing ba sah khun masi lah ban shna skhem ne malu mala
7. Ki ing ba shna skhem dei ban shna ha kata ka rukom ban suk ban pynkhuid haba la wanrah thymmai ia I khun masi
8. Ka paddock ne jaka set masi nalar ka sem ba shong ki khun masi ka iarap ruh ia ki khun masi ban ioh ia ka sngi bad jingkilan met

Ban ot ne weng ia ki reng:-

Ki masi kiba don ki reng ki don jingma ia ki briew ba hap trei bad ki, hynrei ha kajuh ka por ka jingot ia ki reng ki pynytnnad ia ka masi ban peit. Ka jingot ia ki reng lah ban leh da kiba bun rukom

Nar ba la thang khluit:- U nar ba khluit la pyndonkam khamtam na ka bynta ki khun masi ba la don 4-6 taiew. Haba pyndonkam ia kane ka rukom, pyntikna ba ka jingpyniap ia ki renglung ka long kaba

treikam hynrei ki reng kin sa mih biang. Kaba kynthah ia ki reng da u nar khluit lah ban leh haduh ka rta ba 3 bnai (Haba ka jingpynduh ia ki reng da u nar ba dang rung ha ki reng lung da kaba suk)

Chemical Methods:- Pyndonkam da u caustic soda ne caustic potash

Jingithuh ne buh dak:-

Ka jingithuh ne buh dak ia ki khun masi dei ban leh wut wut hadien ba la dep kha khnang ban ailad ban suk bad ban buh jingtip ba biang. Ka jingithuh lah ban leh da kiba bun rukom.

- a. **Ear notching:-** Ot khyndiat I bynta ka skhor kum ka dak ban ithuh. Kane ka dak ka long shi jingim u masi
- b. **Ear Tagging:-** Pyndonkam ia u jingpyndait ban suk pule.



LYNNONG VI

HEIFER REARING



Ka Jinglamphang:-

Ka jingri ia shibun tylli ki masi lud kynthei ban bujli ia ki masi khemdud ba la tymmen ka ailad ia u nongri masi khemdud ban:

1. Ioh iaki masi lud kynthei kiba kynsai ban bujli da kaba jied pyrkhang katkum ki kyndon ba donkam na ki shibun tylli ki masi lud kynthei.
2. Pynheh iaka kynhun masi khemdud ha kador kaba duna (khlem da thied masi lud kynthei ne masi kmie).
3. Die ia ki masi lud kynthei kiba tam khnang ban iohnong. Ki masi lud kynthei kidei ka lawei jong ka kynhun masi ba ri. Ha kajuh ka por ki dei ki jingri ki bym pat don jingmih eiei, kumta ka pynbun ia ka jinglut jingsep ha ka liang u jingbam symbol, ki nongtrei bad ka jingsumar ha ka koit ka khiah jong ki khlem da don jingmih jingmyntoi eiei kaba marmar.
4. Ka jingri masi lud kynthei ka long ka jingbei pisa kaba sdang ban wanrah iaki jingmyntoi hadien ka jingpynkha khun kaba nyngkong; kumta ka thong ka dei ban long ban pyntikna iaka jingheh jingsan bha jong ka haka jinglut kaba duna duh ban lah ban ai kpa iaka ha ka por kaba biang khnang ban ioh pat iaka por aidud jong ka kaba pura hadien habud ha ka jingim jongka.
5. Ka jingbsa iaki masi lud kynthei ka wan ba ar ha ka liang ka jinglut jingsep baheh duh jong ka pham kaba wan hadien ka ingbsa ia ki masi khemdud baroh. Kane ka dei namar ka jingrem dor jong u jingbam symbol kaba long ka jing pynlut pynsep kaba heh duh haka jingbsa iaka. Ka thong ka dei ban ri ia ki masi lud kynthei kiban kot ia ka jingheh jingsan kaba donkam kham kloii khnang ba kan khie samla kloii, ban lah ban pynshongkha bad pynarmet bad ban pynkha da kaba suk.

Ka Jingpynshongkha iaki Masi lud kynthei.

Khlem da khein iaka rta, ka masi lud kynthei ka samla ha ba ka la don ka jingkhia kumno kumno 40% na ka jingkhia kaba kan don ynda kala rangbah. Hynrei, kan bha eh ban pynshong kha iaka ynda ka la kot 60% ka jingkhia kumba la khmih lynti ba kan khia ynda kala rangbah. Barabor kane ka urlong ynda ka masi lud kynthei kala dap ha ka rta kaba 14 haduh 16 bnai. Ki jait masi barit lah ban pynshong kha iaki shi bnai lane ar bnai kham kloj ban iaki jait masi ba heh namar kine ki rangbah kloj. Ki masi lud kynthei kiba don ka met kaba biang bad pura bad nang kiew ka jingkhia haka por pynshongkha barabor ki pyni ia ki dak ki shin kiba tikna ba ki poi jingkhuit bad ka jinglah jong ki ban armet ka kham kiew ban ia kito ki masi lud kynthei ki bym don haka met ba pura bad/lane raikhoh. Ki masi lud kynthei ki baheh bad sngaid palat la lap ba ki donkam kham bunsien ka jingaikpa iaki na ka bynta ba kin armet shisien ban ia ki masi lud kynthei kiba heh bad khia kumba dei ban long.

Ka rukom ai bam iaki masi lud kynthei:

1. 2 kg jingbam symbol
2. Phlang jyrngam : 10-15 kg shi sngi
3. Phlang rkhiang: 5 kg shi sngi.

Lynnong – VII

Ka rukom ai bam bad ri ia ki masi khemdud:



Ka rukom ai jingbam symboh



Ki masi khemdud ba la pyllait ban bam phlang.

Ki jait symboloh jingbam ha u jingbam masi (types of nutrients ha ktien nongwei):

1. Ki symboloh jingbam kiba heh lane (macro ingredients ha ka ktien nongwei):-

Kine ki kynthup ia ki symboloh jingbam kiba ai bor kum ki carbohydrates bad ki proteins (ktien nongwei). Kine ki ai ia ka bor ha ka met kaba pynlah ia u mrad ba un khih un ksar, ban ai jing syiad, ban im bad ban pynmih jingmyntoi. Ki jingbam ba ai bor kidei ki bynta ba kongsan duh ha u jingbam masi. Ki proteins (haka ktien nongwei) ki iarap ia ki mrad ba dang rit ban heh ban san bad tei ia ki doh ksah kiba khlain bad ki iarap ia ka masi kmie ban kha ia I khun masi ba shait ba khiah bad ban ai ka dud kaba biang.

2. Ki symboloh jingbam kiba rit (micro ingredients ha ka ktien nongwei):-

Ki mluh bad bitamin donkam tang khyndiat bad kine ki iarap ia shibun tylli ki jingdonkam ha ka met kynthup ia kaban pynkhain ia ki shyieng bad ban pynkhain iaka bor ban pun ban kha. Ka jingdonkam ki masi khemdua ia ki symboloh jingbam, kumba long lem kiwei pat ki mrad ka long ba ki donkam iaka bor (energy), protein, ki mluh bad ki bitamins kaba dei ban pynioh bad ai iaki lyngba u jingbam.

Energy bulk forages and pastures(ha ka ktien nongwei) Dei ban don pahuu ki phlang jyrngam ha ki lum bad madan phlang: - ki phlang rit, ki phlang bala thad rkhiang kum u skum, ki jingtang jong ki jingthung kum u(riewhadem, skop riewhadem, kew, skop kew, skop kba bad u khaw pyrsit).

- Ki kpu naki jingthung:- kham bunsien ki kynthup ia u kpu umphniang tyrso, kpu umphniang badam, kpu umphniang nei bad kumta ter ter.
- Na ki mrad:- ktung lwet bala tylliat bad kumta ter ter.

1. Kaba bam ia u jingbam lane ka feed intake (ktien nongwei) ka pynbiang ia ka bor(energy) kaba donkam ban pynmih iaka dud, ban tei bad pynneh ia ka bor met bad pynkiew ia ka jingkhia jong ka met. Ka jingkiew haka jingkhia jong ka met kadei namar ka jingiatei bad iai maramot iaka bor met bad ynda haba la sdang kut noh ka por ai dud, ka dei namar ka jingsan sted jong I khun masi hapoh kpoh.
2. Kaba kham treikam bha ha ka ban nangtei bad pynkiew ia ka jingkhia ka masi ka dei ha ka por ba lajan kut noh ka por ai dud jong ka ban ha ka por bala dep pyntykhong dud ia ka. Ha kane ka por, ka masi kmie ka nang kiew ha ka jingkhia bad ka daw ka dei namar ka jingkhia I khun masi hapoh kpoh.
3. Ka jingphikir haka rukom ai bam ia ka masi kmie ha kane ka por kan iarap shibun ban ioh ia ka por pura ba kan ai dud ha ka sien kaban wan bad kumjuh kan pynduna shibun ia kano kano ka jingeh ha ka koit ka khiah jong ka ha ka por ba kan kha ia I khun masi.(Milk fever and Ketosis).
4. Ha ka por pyntykhong dud, ia ka masi kmie dei ban ai bam da u jingbam rashon u ban iarap ban tei bad pynbiang iaka bad ka jingarmet jong ka. Hynrei 2 taiew shwa ba kan kha, dei ban aibam da u jingbam symboloh khnang ban pynkhreh na ka bynta ka jingaidud ka ban wan.
5. Ia u mluh calcium bad u mluh phosphorous dei ban pyrkling bad pynduna ha ka jingthew ban ai bam ha ka por bala pyntykhong dud sha ka 0.4% bad 0.25% khnang ban pynduna ka jingioh khieshoh ynda la dep kha. (Milk fever)

Ka rukom aibam iaki masi khemdud.

Jingbam symbol:- 1.5 kg ban tei ban pynneh (maintenance haka ktien nongwei) + 1 kg u jingbam symbol na ka bynta man ka 2.5 litres ka dud ba pynmih.

Phlang Jyrngam: 20-25 kg

Phlang Rkhiang: 10-15 kg

Phlang Pdem: 5-10 kg.

Ki phlang jyrngam: ka jingrep bad jingbuu tyngkai ia ki:

Ka jingrep iaki phlang kadei kawei ka bynta ba kongsan tam ha ka kam ri masi khemdud. Ha shwa ban plan ia ka pham masi khemdud, dei ban da buh jingkynmaw halade iaka jingdon jong ki phlang jyrngam kiba bha kata ruh ba kin da don pahuh bha.

Ki phlang hangne ki thew iaki phlang jyrngam baheh / phlang jyrngam barit kiba ju pyndonkam ban ai bam iaki mrad jingri bad khamtam eh ia ki masi.

(A) Jingrep phlang: Ka jingthung iaki jait phlang babha kadei kaba donkam eh khnang ban pyn tikna iaka jinglah ban ioh ia ki baroh shi snem lynter. Ki jait phlang jyrngam bapher bapher kiba lah ban thung hangne ha ki thani jong ngi ki kynthup ia kine harum:-

1. **Riew hadem:** Une udei u jingthung uba tei bha bad uba mih bha sha kine ki thani jong ngi. Namar ba u dei u jingthung uba don bun ka um ha u, kane ka pynlong ia u uwei u phlang jingbam uba biang tam ban shna kum u phlang pdem.

Ka por thung: - Rymphang – Jymmang

Jingbet symbai : - 40kg ha ka shi akar

Ka por ot : 3 bnai hadien ba dep thung.

Ka jing ai um: Um slap.

2. **Krai (Oats):** une udei u jingthung ha ka por tlang bad u mih bha ha ki bnai tlang.

Ka por hung: Nailar – Naiwieng.

Jingbet symbai: 50kg ha ka shi akar

Ka por ot: 2-3 bnai hadien ba la dep thung.

Katno sien ot: 2-3 sien ot hadien man ka shi bnai.

Jingai um: katba lah ban ai um, kane ka iarap ha ka jingsan pura jong u phlang.

3. **Ki phlang ba mih baroh shisnem** (Perennial haka ktien nongwei):

Kine ki kynthup ia kito ki jaid phlang kiba mih bad ba lah ban ioh baroh shi snem. Ki kynthup ia kine harum:-

(a) U phlang Kongo (congo grass ktien nongwei): U dei u phlang uba mih baroh shi snem bad lah ban ithuh ia u na ka rukom mih ba iakhah bha shi lynnong; Ki thied kiba san kloj kiba lah ban ksam ia ka khydew haduh 1.8 m ka jingy়liew.

(b) U phlang Guinea(ha ka ktien nongwei): U dei u phlang uba la tip bha uba mih baroh shisnem lynter bad u san bad plung bha ha ki thani kiba don iaka jingshit bad ia u slap uba biang (tropical region ha ktien nongwei) bad une lah ban ioh pahuh bha bad u jrong palat 2 m tam.

© U phlang Napier (ktien Nongwei): U dei u phlang jingbam uba kongsan bha ha kine ki thani jong ngi. Lah ban thung ia u da kaba pyndonkam da ki thied jong u.

(d) U phlang Para (ktien nongwei): U dei u phlang jingbam uba san klo i bha ha ki por lyuir uba mih baroh shi snem bad ban pynroi ia u, pyndonkam da u thied jong u lane da ki tnad jong u.

(e) Kiwei kiwei de ki jaid phlang kynthup ia u synsar bad kumta ter ter.

4. **Ki sla dieng** (fodder trees – ktien nongwei):

Kine ki kynthup ia kito ki jaid dieng kiba ki sla jong ki lah ban ai bam ia ki masi ha ki por ba kyrduh phlang jingbam. Khamtam eh Exbuclandia (ktien nongwei) u diengdoh, ki sla jong u dieng Cherry blossom (ktien nongwei) bad kumta ter ter.

(a) Ka jingbuh tyngkai iaki phlang: (Fodder preservation ha ka ktien nongwei)

Ka jingshna ia u skum (Hay making ktien nongwei) : U skum dei ki phlang jyrngam ba la buh tyngkai da kaba thad pynrkhiang ban pynduna ka jingdon ka um ha ki khnang ba ynlah ban buh slem iaki khlem da pyut noh lane ban phuh tit noh (da kaba pynduna ia ka jingdon um hapoh jong ki ka sangeh ia ka jingkha roi ki khniang jingpang -Microbial growth ha ka ktien nongwei). Ka jingdon ka um hapoh ki phlang dei ban pynduna haduh kumba 15% eiei.

Ka jingot bad pynih (Harvesting and curing ha ktien nongwei):

1. Ia ki phlang jyrngam ban shna skum dei ban ot haba kila phuh syntiew 50%. Ha kane ka por, ka protein (ktien nongwei) bad ka jinglah ban tylliat ia u hapoh kpoh ka long kaba biang tam, hadien kane ka duna arsut katba dang iaw u phlang.

2. Dei ban ot iaki phlang jyrngam hadien 2-3 sngi haba la rang tylkhong bha ka suin bneng khnang ban lah ban thad pynrkhiang iaki. Haba lah thad pynrkhiang ha ka jaka kaba tngen khnang ba u phlang un neh ka jingjyrngam jong u, kane ka dei ka dak ba pyni ba u phlang u long uba bha.

3. Pyndonkam da u proh ban kylla ia u phlang khnang ban tikna ba u rkhiang ryntih. Peit khmih iaka jingrkhiang da kaba pyrshang ban kdiah iaki tnat, lada u kdor palat khlem da lah ban dkhat pyndkut, Kane ka pyni ba ka um ka dang bun hapoh jong u.

4. Ka jingkhein kaba biang ban buh ia u phlang na ka bynta ka jingdonkam kan pynsuk shibun ban aibam iaki masi katkum ka jinglut kaba la mang lypa.

Ki phlang pdem.

Ki phlang pdem ki dei ki phlang jyrngam kiba bun um bha hapoh jong ki kiba buh tyngkai (preserve ha ka ktien nongwei) da kaba pdem iaki ha jingbymdon ka lyer. Kine ki dei ki jaid phlang jyrngam kiba sniew klo i lada ailad iaki ban tyrkhang. Ki phlang pdem lah ban shna na u Krai jyrngam (green oats), riewhadem jyrngam lane u phlang napier(ktien nongwei).

U jingthung uba biang tam ban shna phlang pdem u dei ban:-

- 1) Don ha u iaki shini (fermented sugars ha ka ktien nongwei) kiba lah ban pra bad um noh kat ban biang haka jingdonkam ha ka dur jong ki water soluble carbohydrates (ha ka ktien nongwei).
- 2) Don ia ka Dry matter content (ha ka ktien nongwei) ha u phlang ba im kaba tam iaka 20%.
- 3) Dei ban long u kynja phlang uba jem bad suk ban thep khapngiah ia u hapoh ka thliew silo (ka ba ong haka ktien nongwei) ynda la dep ban ot ia u.

Ka jingshna ia u phlang pdem.

Ki jaid jingthung ba pyndonkam ban shna phlang pdem:- Riewhadem ha shwa ba un phah syntiew uba ot ynda la kot 90 sngi/Krai (oats)/ Ki Kiyu grass (ha ka ktien nongwei).

Ka jingthew ba donkam na ka bynta ban shna iaka thliew pdem kaba bha ne Silo pit (ktien nongwei):-

Jingjrong	= 10 phut
Pyngkiang	= 12 phut
Lynter	= 12 phut
Jingheh	= 160 ton (capacity ha ka ktien nongwei)

Ki kyndon ban shna ia u phlang pdem haka thliew pdem:-

- i) Ia u riewhadem uba la dep ot haka 90 sngi dei ban buh bad pynbeit ryntih ha kajuh ka rukom uwei halor uwei bad da thep khapngiah bha ia u.
- ii) (Molassess- Ktien nongwei) Ka um shini ban ai lang ynda haba la dap marshiteng ka thliew pdem, lai pawa bad hajrong duh jong ka thliew pdem kaba la dap smam da u riew hadem.
- iii) Ia ka thliew pdem dei ban thep pyndap bad khapngiah bha smam.
- iv) Nangta sa khang khop iaka bad ieh kumne kaba duna duh ka long 60 sngi.
- v) Hadien kane lah ban aibam iaki masi ha ka por ba kyrduh ki phlang jyrngam.



U riew hadem bala pynbeit ryntih ha kajuh ka rukom naka bynta ban shna phlang pdem.

Jingpynshongkha.

- Pynshongkha (mating- ktien nongwei): Shisien ba iohi bala poi jingkhuit ka masi, dei ban ai kpa noh iaka.
- Ha Kano ka por ban ai Kpa:- Ai kpa da kaba injek iaka masi haka por kaba biang khnang ban pynkiew iaka lad ba kan armet. Kine harum kidei ki jingkdew iaka por kaba biang tam jong ka masi ban long ai kpa.

Kumno ban pynbha shuh shuh ia ka jingpynshongkha:-

- Ai kpa iaka masi 50 haduh 75 sngi ynda kala dep kha Mynstep (A.M) – Janmiet (P.M) Rule.
- Haba la iohi ba ka jingkhuit kala neh, ai injek aikpa noh iaka masi.
- Haba ka masi ka la wan jingkhuit hashwa jong ka 9 baje mynstep, hap ai injek aikpa ne A.I (ktien nongwei) ynda la kham janmiet ha kajuh ka sngi. Ynda lah nohphai sngi lane dang step haka sngi ba bud.

Ka injek aikpa (Artificial Insemination- ha ka ktien nongwei):-

Ka injek aikpa kaba ju tip paibah kum ka A.I ka dei kawei ka rukom pynshongkha kaba la ai jingmyntoi shibun haka ban pynkiew shaphrang iaka kam ri masi khemdud ha ki 60 snem kiba la leit ha ka ri Kenya bad haka pyrthei hi baroh kawei. Kane ka rukom aikpa kaba shu injek ka sdang na u masi kpa uba shait ba khlain, kaba mut u bym don ia kano kano ka jingpang bad uba lah ban pynmih khambun ia u symbai uba bha. Ka jinglah ka masi kmie ban armet ruh kadei kaba kongsan bha, ka jingbit jong u nongai injek bad ruh ka jingkhuid jingsuba. Ka jingkyntu iaki nongrep ka long ba kin pyndonkam ia u symbai jong u masi kpa uba la tip lypa ba u dei uba bha uba lah ban ioh na ki jika ba ai injek aikpa (A.I Centers- ha ka ktien nongwei) bad kiba la rijister naka bynta ban trei ia kane ka kam.

Ka jingmyntoi na ka injek aikpa:-

- 1) Ban iada na ki jingpang iabit na ka jingshongkha.
- 2) Ban buh tyngkai shilynter i'u symbai ha ka dor kaba duna. Kane ka pynlah ban leh iaki test bad jingwad bniah ba har rukom bad ruh haka ban jied ia u masi kpa.
- 3) Ban nangpynkiew shaphrang ia u symbai ba bha (enhances genetic progress haka ktien nongwei) namar ba la pyndonkam tang da ki masi kpa kiba kynsai tam ha ka ri baroh kawei bad ha kiwei pat ki ri ka pyrthei.
- 4) Ki nongri masi kiba dang rit haka kam ki lah ban ioh iaka injek aikpa na ki masi kpa ba bha ha ka dor kaba tad.
- 5) Ka jinglah ban jied i'u masi kpa uba i don jingmyntoi.
- 6) Haba phikir ban pyndonkam bha, kam donlad eiei iaki jingpang iashongkha ban saphriang.
- 7) Ka tehlakam bad iada na ka jingpynshongkha kaba iajan haka jingiadei (Inbreeding ha ktien nongwei).
- 8) Ka injekshon aikpa kadei ka rukom ba bha tam ban kyntiew bad pynbha iaki jaid masi ha kine ki thain jong ngi namar ba ka pynlah ia u symbai na u ‘Si kpa ba kynsai tam ban don bad lah ban ioh kylleng kylleng.

9) Ka wanrah ia ka jingiohnong namar ba ki nongri masi kim donkam ban da ri ne buh masi kpa lajong.

- Ka por armet:- Naduh ba sdang armet haduh ban da kha 281 ± 2 sngi.
- Ka por por aidud:- naduh ba kha haduh ban da pyntyukhong dud 305 sngi.
- Ka por pyntyukhong dud: ka por kaba lyngkot kata 60 sngi.

Ka jingpynmih iaka dud kaba khuid.

Ka jingpynkhuid iaka jaboh/eit masi hashwa ban khem dud ki khiewdud naka bynta ban khemdud



Jingkhem khem dud da ka kti

U nongkhemdud u dei:-

- Ban long uba koit ba khiah bad lehkhuid.
- Don barabor ki tyrsim bad shniuh ba lyngkot (ki kynthei ki hap tap ka khlieh haba khemdud).
- Ymdei ban dih biri ne sikret haka por khem dud.
- Ban khemdud sted bad khem pynlut baroh khlem da sangeh teng.
- Ka sem ban khem dud dei ban da shna bha laka dei ka ba shna paka ne kaba lah ban pynkynriah. Ka dei ban don sha jngai na kano kano ka jingsma.

Ki khiewdud

- Ka madan jong ka sem ka dei ban long ka ba khuid bad ba rkhiang bad lada long kaba lah siang da ka cement khnang ban suk haba sait pynkhuid.
- Dei ban sait ia ka sem man ba dep khem dud bad ia ki masi dei ban buh shabar jong ka sem khemdud.
- Pyndonkam da ki khiew dud aluminium lane ki steel kiba jlih ban khem bad pynlang iaka dud. Ki khiew dud ba shna daka plastic ki long kiba jynjar ban sait khuid.
- Mar iadep ban khem dud lane ynda la dep phylliew noh ia ka dud, dei ban sait khuid ia baroh ki tiar pyndonkam da kaba phler da ka um pjah, shut da u brut da kaba pyndonkam daka umkhluit bad ka sabon hadien kata sa phler da ka umpjah. Pyndem pyllup iaki haki jika pyndem bad thad rkhiang haka sngi.
- Buh ia ki tiar pyndonkam baroh haka kamra kaba shngain, ba khuid bad ba rkhiang bha.
- Ban khem dud daka kti, ka dei ka jingtbit jong u nongkhemdud uba nang tbit shuh shuh lyngba ka jingtrei kaba manka sngi.

Ki kyndon: Ban khemdud masi daka kti.

1. Bsa da u jingbam rashon naka bynta ka jingpynmih dud jong ka masi (kane ka shong ha ka mon lajong hala ka rukom aibam). Kane ka pynjaijai iaka masi bad iarap pynmih bad tuid bha ka dud.
2. Teh iaka masi (restrain – ktien nongwei):- Teh iaki kjat dien jongka halor ki khohsiew.
3. Dei ban teh syrdoh (a loose knot – ktien nongwei) kumne khnang ban iada ia baroh ar kata iaka masi bad i'u brieuw ruh (kane kadei tang haba khemdud da ka kti).

Sait iaki kti da ka sabon bad ka um kaba khuid ha shwa ban khemdud. Niad pynrkhiang da ka towel.

1. Test naka bynta ka jingpang mastitis (ha ka ktien nongwei) da kaba pyndonkam iaki strip cup (ba ong ha ka ktien nongwei) khniot shwa iaka dud kaba mih nyngkong duh ha kane ka strip cup na baroh ki saw bynta jong ka jymbuin bad peit khmih ioh don kano kano ka jingpher ne jingkylla. Lada lap ia kane ka jingpang mastitis (ktien nongwei) ba ka don, ia kane ka masi dei ban khemdud khatduh duh.
2. Pyndonkam da ka towel ban sait iaki jymbuin jong ka masi da ka umsyiad kaba khuid kaba la khleh lang bad ka dawai pyniap khniang. Ka um syiad ka iarap ban tuid bha ka dud. Nangta sa niad pynrkhiang da ka towel.
3. Kyllan da ka kynja dawai tah (Milking jelly- ha ka ktien nongwei) ban iada na ka jing orpait ki sohjymbuin bad ruh ban suk ban khemdud (tang na ka bynta ban khem dud da ka kti).
4. Khemdud stet bad khem lut baroh haban da dep da kaba khniot ym da kaba shu tan.
5. Ban khemdud ia kawei pa kawei ka masi ka dei ban shimpot 7-10 minutes kaba slem duh.
6. Pyndonkam da ki khiewdud kiba khuid haba khemdud.
7. Ynda ladep khemdud, ban ioh ia i jingjaw ka dud iba khatduh naka jymbuin khnang ban kiar iaka jingkhemdud kaba khlem pyndep pura (incomplete milking – ha ka ktien nongwei) kaba lah ban lam sha ka jingpang mastitis.
8. Ynda ladep khemdud wieh iaki sohjymbuin jong ka masi haka um dawai bala khleh (Teat dip – ba ong ha ka ktien nongwei) ka dawai pyniap khniang ban pyntikna ba ki jaid khniang bacteria -(ktien nongwei), kinnym iohlad ban rung lyngba ki sohjymbuin kiba dang plie mar iadep khemdud.
9. Ka long kaba bha shibun eh ban pynieng iaka masi la kumno kumno kumba 1 kynta eiei ban pyntikna ba ki sohjymbuin jong ka kin ym bit haka khydew ne madan katba ki sohjymbuin jong ka ki dang plie bad kylluid.

Lynnong XII.

Ka jingbuuh slem iaka dud (Milk preservation – ha ka ktien nongwei).

Ka dud ka long kaba sniew kloihaduh katta namar kata dei ban buh bad sumar bha iaka khnang ban pyntikna ba ka long kaba bit ban dih ki brieuw hala ki ing bad ruh ba kan poi sha ki jaka pynlang ne sumar dud bad/lane sha ki nongpyndonkam ba khatduh iaka kum ka dud kaba bha. Ka jingjop jong kano kano ka rukom buh bad sumar iaka dud ka shong haka jinglekhuid leh suba ha ka jaka bala pynmih iaka. Kumta ka dud ba la pynmih na ka masi ba koit ba khiah, ba khemdud da u brieuw uba shait ba khiah bad pyndonkam da ki tiar ki tar kiba khuid kan long ka dud kaba khuid bad kaba lah ban buh kham slem.



Jingdie iaka dud (Disposal of milk – ha ka ktien nongwei)

Lah ban buh slem iaka dud da kaba bud ia kine ki rukom kiba suk kumne harum:

Ka jingpyndait iaka dud ka pynsuki noh ia ka jingkharoi bad ka jingtreakam jong ki khniang jingpang bad kumta ka iada naka jingsniew ka dud. Lah ban pyndait thah ia ka dud lyngba:

- Kaba buh ha ka jaka ba tngen.
- Kaba thep ne pyngam iaki khiewdud ba don dud hapoh ka dabor ba don umpjah, ka umpjah ba tuid naka top um.
- Kaba buh iaka dud hapoh kor thah (Refrigerator – ktien nongwei).

Ka jingshet ne pynkhuit iaka dud ka pyniap shibun tylli ki khniang jingpang bacteria(ha ka ktien nongwei) bad ka dud bala pynkhuit ka kham neh slem. Ka iarap ruh ban weng noh iaki khniang jingpang kiba lah ban pynbit jingpang na ka masi sha ki brieuw. Ka rukom ba bha tam ban shet ne pynkhuit iaka dud (ban pynneh ka jingbang bad ban kiar naka jingsma iwhong) ka dei ban da pynngam ia u khiewdud haka umthnam ia kumba 30 minit.

Ki rukom ban test iaka jingbha jong ka dud (Basic milk quality test ha ktien nongwei):-

Ki don saw tylli ki jaid test kiba suk ban test iaka dud kiba lah ban leh man laka sngi ha baroh artylli ki jaka kata hapoh ka pham bad ha jaka pyllang dud ne (Milk collection Centre – ha ktien nongwei).

- Jingpeit – bad – Jingsma (Organoleptic test – ba ong ha ka ktien nongwei).
- Lang – haba – pynthnam test.
- Test iaka khlein.

Ka jingtest da u lactometer (ktien nongwei).

Kane ka test la pyndonkam ban pynshisha lada ka dud ka dei kaba la don jingkhleh um ne kiwei ki jaid jingkhleh ha ka. Kano kano ka jingkhleh haka dud ka wanrah iaki khniang jingpang kiba lah ban pynsniew klo iaka, kadei ka jingleh thok leh shukor namar kata ka long ka bym dei ban leh satia. Ka Lactometer test la pynshong nongrim ha kata ka jingshisha ba ka dud ka don ka jingkhia jong ka kaba khambun lane density (ktien nongwei) (1.026 – 1.032 g haka 1 ml) haba ianujor bad ka um (1.000g haka 1 ml).

Ka jingtest iaka khlein da kaba pyndonkam ia u Butyrometer (ktien nongwei) :-

Ban pynshisha katno ka jingdon ka khlein haka dud.



Lynnong XIII.

Ka rukom ai tika bad ai dawai wieh.

Sl. No	Kyrteng jong ka Jingpang	Rta ki Masi ban ai tika	Ka por ba ai jingiada	Ka bynta ban dung injek
1	Jingpang Niangkhnap (Foot & Mouth disease – ha ktien nongwei)	Tika banyngkong – 4 bnai ka rta. Booster (ha ktien nongwei) – hadien 1 bnai. Ai tika biang man ka 6 bnai	Shi samoi	Ha ki dohksah
2	H.S & B.Q (ha ka ktien nongwei) Pangiong	Tika ba nyngkong – 3 bnai ka rta Ai tika biang man la u snem.	Shi samoi	Hapoh jong ka sniehdoh
3	Brucellosis (Ktien nongwei)	Baroh ki khun masi kynthei hapdeng ka 4-8 bnai ka rta	Shi lynter jingim	Ha ki doh ksah

Ka rukom ai dawai wieh: - Jingai dawai wieh ba nyngkong ynda la don 3 bnai ka rta bad sa ai biang hadien man ka 3 bnai.

Ki jingpang kiba kham kynrei: Ki jingtehlakam bad jingiada:

1. Ka jingpang Mastitis (ha ktien nongwei): Kane ka thew ia ka jingshitom haki jymbuin.

Ka daw:- Ka jingbym pynkhuid iaka jymbuin ha shwa ban khemdud.

Jingiada:-

(a) Ka jinglehkhuid leh suba iaki sohjymbuin kaba kynthup iaka jingsait khuid hashwa bad ynda la dep khemdud da kaba pyndonkam da ka um kaba khuid ba la khleh lang bad ka dawai pyniap khniang kum u sodium hypochlorite (ba ong ha ktien nongwei).

(b) Ka jinglap kloi bad jingsumar kloi iaka.

(c) Ka rukom pyntyrkhong dud kaba kynthup ia ka rukom ban set iaki tduh jong ki sohjymbuin hashwa ban pyntyrkhong dud iaka masi armet (Using teat end sealant ba ong ha ktien nongwei).

(d) Ban test tista iaka dud ban lap iaka jingdon ka jingpang mastitis ka bym pat paw shabar.

FMD: Ka jingpang Niangkhnap.

Ka jingpang niangkhnap kadei ka jingpang ba la pynlong da u khniang virus (viral infection ba ong ha ktien nongwei) kaba ktah ia ki masi baroh ha kano kano ka rta bad khamtam eh iaki masi khemdud namarba kane ka pynhiar arsut ia ka jingpynmih dud jong ka masi.

Jingtehlakam: Jingsait iaki sem daka um ba la khleh dawai pyniapkhniang manla ka por.

- Ban set marwei iaki masi bala kem pang.
- Jingai jingsumar iaki masi ba pang.

Jingiada: Jingai tika da kaba pyndonkam da ka FMD Polyvalent Vaccine (ha ka ktien nongwei) arsien shisnem man ka 6 bnai.

2. H.S (ba ong ha ka ktien nongwei): Ka Haemorrhagic Septicaemia (ha ktien nongwei) kadei ka jingpang ba iabit bala pynlong da ki khniang bacteria (ktien nongwei) bad ki masi ba ioh ia kane ka jingpang ki pyni iaki dak ki shin ha ka jingring bad jingpynhiar mynsiem (Respiratory symptoms ha ktien nongwei) ryngkat ka jingmih eitmut bad jingpynhiar kpho kaba jur ryngkat ka jingkiew haka jingiap lada ieh khlem jingai jingsumar.

Jingtehlakam:

- Jingsait iaki sem man ka por da ka um bala khleh dawai pyniap khniang.
- Ban set marwei iaki masi bala kem pang ryngkat ka jingai jingsumar kaba biang.

Jingiada: Jingai tika shisien shisnem.

3. Brucellosis (Ha ktien nongwei): Kadei ka jingpang ba la pynlong da ki khniang bacteria (ktien nongwei) kaba iabit ruh sha u briew (Zoonotic ha ktien nongwei) ka ktah ia ki masi aidud bad ka dak ka shin kaba kongsan ka kynthup iaka jinghap khun bad kumta kane ka wanrah iaka jingduh nong kaba khraw iaka pham.

Jingteh lakam bad jing iada: Jingai tika ia baroh ki masi khun kynthei hapdeng ka rta kaba 4-8 bani.

4. B.Q/ Pangiong: Ka ktah khamtam eh iaki masi khun ki bym pat ioh iaka tika kiba hapoh 1 snem ka rta. Kane ka jingpang bala pynlong da ki khniang bacteria (ha ktien nongwei) bad ka ktah iaki dohksah kiba heh jong ki kjat ki kti bad ka jingiap na kane ka kiew bha.

5. Anthrax (ha ktien nongwei): Ka dei ka jingpang kaba shyrkhei kaba la pynlong da ki khniang bacteria (ktien nongwei) ha ryngkat ka jingiap kaba 100%. Namar kane ka jingpang kadei kaba iabit sha u brieu dei ban bud pyrkhang bha ha ka rukom tep bad lano lano ruh ymdei ban plie ne puid iaka meteiap jong u mrad na ka bynta ban leh post martem.

Ka jingtehlakam: Jingsait man la ka por iaki sem da ka um bala khleh dawai pyniap khniang.

Jingiada: Jingai tika shisien shi snem.

6. Parasitic Infection (ktien nongwei) Ka jingboi thyllah bad jingboi wieh: Ki wieh kiba don hapoh kpoh bad ki snier ki wanrah ia shibun ki jingktah kiba sniew iaki masi baroh ha kano kano ka rta. Kine ki kynthup iaki wieh pyllun bad kumjuh iaki niangstar. Ki masi ba don wieh ki pyni iaka met ka by mi koit i khiah bad ki duna ha ka jingpynmih dud bad ki masi ba dang rit ki pyni ka jingkhrew haka rukom heh rukom san. Dei ban ai dawai wieh shisien manla ka 3 bna. Ka jingbun jong ki dkhap ruh ka wanrah shibun ki jingktah kiba sniew namar ba ki dkhap ki long ki nongkit bad wanrah ia shibun ki jingpang ba kynthup ia kum ka jingpang babesiosis (ha ktien nongwei) lumpy skin disease bad kumta ter ter bad ki pynlong ruh ban duna snam.

7. Metabolic disorders (ha ktien nongwei): Kine ki kynthup ia kito ki jingpang kiba ka daw ba kongsan tam kadei ka jingduna ha kino kino ki mluh bad ia ki jingbam teimet. Ka milk fever ketosis, hypomagnesaemis (ktien nongwei) bad kumta ter ter. Kaba kongsan ka dei ban bsa ban aibam haka rukom kaba bha khnang ban iada na baroh kine ki metabolic disorder (ktien nongwei) ryngkat bad ka jingai biang por ia u mluh calcium, mluh phosphorus bad kumta ter ter, khamtam eh 2 bna shwa baka masi kan kha khun khnang ban kiar na kano kano ka jingeh jingshitom.

Lynnong XV.

Ka jingbuh rekod: Ka jingthmu ban buh iaki rekod ki long kumne harum:

Ki rekod ki ai iaki nongrim haka ban bishar bniah

1. Iarap haka ban jied bad ban kyntait iaki mrad katkum ka prokram jingpynshongkha kaba dei ban bud.
2. Iarap haka ban shna iaka pedigree (ktien nongwei) ba pura bad ka rekod mynbarim jong u mrad (history – ktien nongwei).
3. IArap hakaban khein bniah iaka jingim bad jinglut jingsep jong ka pham.
4. Iarap ha kaban bsa ne ai bam iaki mrad khlem kano kano ka jinglutphut.
5. Iarap ha kaban ianujor ia ka jinglah pyntreikam iaki nongtrei bad ka kynhun masi ba ri bad jong kiwei pat kip ham ba marjan.

Ki jaid rekod: Technical & Financial rekod (ktien nongwei): Ki rekod jong ka kam ka jam bad ka rekod ka pisa pilain.

Technical record ne ki rekod jong ka kam ka jam: Kine ki rikod kidei kiba pyni ia ka long ka man jong ki mrad. Ki kynthup ia kine harum:

- Ka rijister pynshongkha iaki masi.
- Ka rijister ba kha khun masi.
- Ka register jong ka kynhun masi khun, masi lud kynthei bad masi kmie.
- Ka rijister jingbam symbob ba aibam man la ka sngi.
- Ka rijister jingpynmih dud bad jing die dud.
- Ka rijister jong ki nongtrei.
- Ka kot na ka bynta ki mrad kaba man ka sngi.

(Financial record) Ki rekod ka pisa pilain: Kine ki dei shaphang ki register ba iadei bad ka jingthied jingtda, ka jingdie, jingkhein jingdiah, bad ka jingiap bad kumta ter terbad kynthup ia kine harum:

1. Ka Cash Book: (ha ktien nongwei) lane ka kot buh jingkhein ia baroh ka pisa pilain kaba pynlut ne kaba ioh ha ka pham.
2. K store inventory book (ktien nongwei) lane ka kot buh jingkhein ia ki tiar ki tar baroh kiba la thied bad buh ban pyndonkam ha ka pham.
3. Ka daily accounts and Credit rijister (ha ktien nongwei) lane ka rijister ban buh jingkhein ia ka jinglut jingsep bad ki ram ki shah kiba man la ka sngi.

Bynta I (Annexure I)

Ka Register Aibam na ka bynta u Bnai

Tarik bad number ki mrad	U jingbam symbol (kg)			Phlang Jyrngam (kwintal)			Phlang Rkhiang (kwintal)			Kiwei kiwei jingbam		
	Uba ioh	Uba ai bam	Uba tam	Uba ioh	Uba ai bam	Uba tam	Uba ioh	Uba ai bam	Uba tam	Uba ioh	Uba ai bam	Uba tam

Bynta II (Annexure II)

Ka Register jong ki Masi

Sl. No	Ka tarik ba kha	Tarik ba ai i'u number	U number jong i khun masi	U masi Kpa	Ka Masi Kmie	Kynthei/shynrang/jingkhia por ba kha	Jingdie		
							Kumno	Tarik	