

GOVERNMENT OF MEGHALAYA



DO.BOK JILE CHA.ANI

KATTA JA.PANGRANG

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CHAPTER -1 :: TALATCHENGANI

Do.bokara gimikna choligipa jilani ong.a aro a.a grigipa ba chongipa game cha.giparangni janggi tangna chol dakanio aro uamangni nangenggipa nutrition-ko man.e cha.ani ringanio, dal.gipa kamko ka.a. Kangal cholgrirangni gisepo do.bok jilaniara mingsonggipa onga maina do.bok jilanio lap bang.bea aro jilna a.bachengna tangka paisako bang.e nangja. Do.bok chongipa jilani ong.ani gimin, uko bi.sarangba aro me.chikrang altue nirokna man.aia aro do.bokrang dingtang dingtang bol bijakrang, sambol, babilisni galgiparang etc on namen tangna man.aia. Do.bokrangko nirokano altua aro koros komia.

1.1.DO.BOK JILANI NAMGNIRANG :

1. A.bachengna koros bang.e nangja aro tangkatangko ta.rake man.pilaia.
2. Ramramgipa aro chongipa nokan uarangna chu.ongaia.
3. Nolo chipe jilode lap bang.bea.
4. Do.bokrang bi.sa bang.e ba.a.
5. Bilsigimikan kam dongaia.
6. Do.bok be.en mitim bang.ja, be.enrara daka.
7. Mamung toromba do.bok be.en cha.aniko beng.ja.
8. Badiaba toromrangde, do.bokko an.tangtangni olakiano jakkala.

1.2.STATE-O NIKNA MAN.GIPA DO.BOKNI JATRANG.

1. **Indigenous/Non descript Breed.** Ia do.bokni jatara, Assam Hills do.bok and Black Bengal jat-ni an.chi bringipa ong.a. Ia do.bokni rong gisim, gipokchi toka aro bringipa rongrangba donga. Do.bok bipani jrima 25 kgs ong.a aro bimani jrima 18 kgs mang ong.a. Ia jatni do.bokra je dakgipa biapoba tangna gita man.aia aro iakora be.en cha.na gita jila.



2. **Assam Hills Goat:-** Do.bokni kimil ro.a aro gipok rong ong.a aro ku.simang rupani rong ba tapprani rong ong.a. Ja.a kan.dika aro be.en ro.a. Bipani jrima 27kgs aro bima 23kgs.



3. **Seroshi Breed:-** Ia jatni do.bokko ICAR, Umiam aro KVK, Tura, Ri Bhoi and West Garo Hills District-o donggipa game cha.giparangna سوالها aro indake da.aloba, ia jatni do.bokko West Garo Hills aro Ribhoi districtrango nikna man.a. Bipani jrima 45 kgs aro bima 30kgs mang ong.a. Ia jatni do.bok an.chingni stateo bang.bata biapरणon jilna nambreja.



1.3. *Local do.bokni mongsonggipa Physiology ko uie ra.ani:*

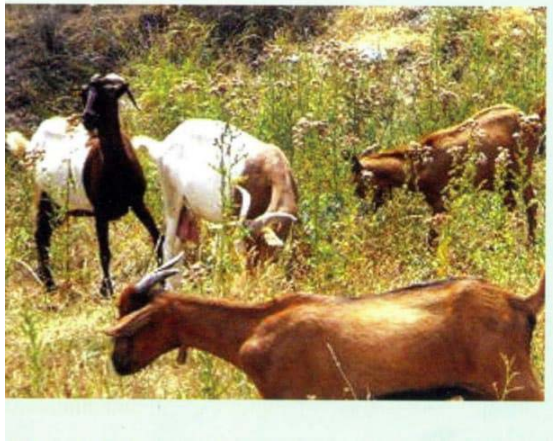
1. Bima/Bipa am.ani somoi (Age at sexual maturity for breeding) - Bipa 10 -12 month
Bima 8 – 12 month
2. Estrous period - sal 19
3. Oko dongani somoi - 145 – 150days
4. Bi.sako ma.watatani somoi - 2 month
5. Bipa roattaiani somoi - bi.sa ba.ani sal 45 ni ja.mano
6. Badita bilsina bipako bi.sa pe.atna jakkala 8 – 10 years
7. Janggi tangani (Average life span) - 12 years
8. bima bipa ratio - 1: 25 -30
9. Badita chang bi.sa ba.a - chang 3 bilsa 2-o

1.4. DO.BOKKO JILANI BEWAL:

1. **Kae jilani:-** Do.bokko budu ro.achi kaemung samsirara dakgipa biapo cha.amchina dona. Walode do.bokrangko nolo rakkia. Do.bok mangsa ba manggniko jilode, ia bewalo jilna nama.



2. **Watbrange jilani:** Iano, do.bokko an.tangtang cha.amchina samsirara dakgipa biapo watbrange donaia



3. **Gisep gisep wate dona:-** Do.bokrangko salo kanta 8-10 mang cha.amchina wate donenba, bang.gija dana ba conc. feed ko on.a. Indake jilna an.chingni biapo ba state-o nambea.



4. **Nolo chipkete jilani** – Ia bewalo do.bokko jilon, bang.gija somoinasan do.bokrangko a.palo ong.katna on.e, nolon chipkete donaia. Samsi aro dana ba conc. feed-ko nol-on uarangna on.aia.

Chapter 2 : DO.BOKRANGNA NOK RIKANI BEWAL:

An.chingni state mikka wasingipa biap ong.ani gimin, stateni climatic condition chijima aro sin.a. Uni gimin, do.bokrangko an.senge rakkianina aro uarangni bi.sa bang.e man.aniko aro be.enni jrimani (productivity)-ko bariatna, uarangna nol rikaniara mongsonggipa kam ong.a. Nol-o salni teng.chakaniko man.na nanga, moilako wate galna name nalako tarina man.na nanga, cha.amna bipa dongna nanga aro samsi ge.naba chu.onga gita biap dongna nanga. Chi ringna aro dingtang dingtang kamrangna, rongtalgipa chi-ko altue man.na nanga.

2.1. DO.BOKRANGNA BADITA BIAPKO NANGA:

| Maidakgipa do.bok | Badita biapko nanga. |
|---|-----------------------------|
| Do.bok dal.gipa | 1 sq.m |
| Bi.sana dut on.gipa aro oko donggipa do.bokna | 1.2 to 1.5sq.m |
| Do.bok bi.sa sal 90 ona | 0.5 to 0.6sq.m |
| Do.bok bi.sa sal 90 oni bilsa sa-ona | 0.7 to 0.9sq.m |

2.2. NOL RIKANI:

Do.bok nol-ko tariani aro apalani, badita mang do.bokko jilna am.enga, uno pangchaka.

1. Nol-ni pakmani chua 6ft na bate komina nangja.
2. Rongtalatna altuna gita aro balwa name jokrurana man.na gita, nol-ni a.pa, a.ani chu.a ft 3 ong.na nanga.
3. A.pako doktachi tarina gita man.a ba do.bok ki.i ka.maona ga.akbana gita, ½ inches gap on.e wa.se wateba tarina gita man.a.
4. Nokkingkode tangka donga ba dongjao pangchake, C.G.I. shed, asbestos ba am.pangko on.na man.aia.

5. Pakmakode bolchi ba wa.se wate peng.na gita man.aia. Ding.gipa biaprangode, tong.sakosan pakma tarie, tong.sakode, name balwa jokrurana man.na gita net-ko on.e tarina man.aia.
6. A.palo rona gita, name fencing on.e, nolni sambengo open paddock-ko tarina nanga .



An Open Paddock



A low-cost Goat Shed made of Bamboo and thatch

CHAPTER -3:: DO.BOKKO SIMSAK NIROKANI :

Sabisiko champengna aro do.bokrangni bi.sa man.aniko aro be.enni jrimani (productivity) ko batatna, do.bokko baseaoni a.bachenge, uarangko simsak nirokani ara mongsonggipa ong.a.

3.1 DO.BOK JATKO BASEANI ARO UARANGKO MANAGE KA.ANI.

1. Jilani do.bok be.en bimang daknanggipa aro an.senggipa ong.na nanga.
2. Bi.sa ba.gimin do.bokko aro jean bang.e bi.sa ba.miting, uko brena nanga.
3. Uarangni ma.a- paa, atchu-ambi (pedigree) -ko name sandichenge basena aro brena man.ode nama.
4. Bredaldalgipa bo.bokrangko tikka su.bo.

5. Bi.sa ba.gijagipa aro dal.rakgijagipa do.bokrangko pale gale, gital do.bokrangko brena nanga.
6. Uarangko ja 8-9 'gap' done bi.sa pe.atna man.ode, uarangni productivity bang.bata.
7. Bilsi 6 ba una batgipa do.bokrangko pale galna nanga.

3.1. OKO DONGGIPA DO.BOKNA SIMSAKANI:

1. Ga.ake matarangoniko champengna gita, oko donggipa do.bokrangko, dingtang nolo donna nanga.
2. Uarangni be.enni nangnika gita, namgipa ba nutritious danako do.bokna on.na nanga.
3. Sabisi ko champengna gita, do.bokna agre bang.eba ba agre komieba dan ba cha.aniko on.na nangja.
4. Chu.onga gita chi ringna on.na nanga.
5. Oko dongani, bon.kamgipa sal 15-ode, so.omgipa bosturangko ane, uarangni nolko tarina nanga.

3.2.DO.BOK BLSA MAN.ANI JA.MANO SIMSAKANI:

1. Bi.sa ba.chakram biapko rongtalatna nanga aro ga.akgimin sa.tipko galna nanga.
2. Do.bokni ki.sangni bakko, sam bringipa chi ba antiseptic solution chi su.srangna nanga.
3. Chi ringaniko bang.e on.na nanga.
4. Danako aro samsikoba bang.gija on.bo.
5. Sa.tip kanta 12-24 ni gisepon ga.akna nanga, ong.jaode Retention of Placenta ong.aha ine agana.

3.3.ATCHIDALDALGIPA BI.SANA SIMSAKANI:

1. Bi.sa atchiani ja.mano, bi.sani gingtingko aro be.enko rongtalgipa ba.rachi ipakna nanga.
2. Gandilko 2.5cm done, kachange ra.ani ja.mano, rongtalgipa kesichi rate galna nanga aro aro dongrikenggipa gandilko Tincture Iodine nonge donna nanga.
3. Atchiani kantasani ja.manon, do.bok bi.sana ma.ani skanggipa sok (colostrum) ko ringna on.na nanga.
4. Bi.sa mang 3 ba.ode ba ma.a siode ba ma.ani sok ong.jaode, bi.sarangna an.tang jakchi dut tarie kanskana nanga.

(c) Feeding of milk should be 1/4 of body weight.



3.4.BI.SANA SOK KANGIPA DO.BOKNA SIMSAKANI:

1. Bi.sa ba.ani skanggipa anti 2 -ode, do.bok ma.ako jinma baksa cha.amna on.na nangja. Nolon cha.ani on.aniko ba budu kae dana on.aniko dakna nanga.
2. Namgipa aro nutrition bang.gipa dana ba feed ko do.bokna on.bo.
3. Chu.onga gita ringani chi-ko on.bo.
4. Calcium and vitamin ko antio chang 2, mangprakna 20-30ml ko on.chapna nanga.
5. Be.eno nasket ba tikrang ma.bakako galna gita, do.bok ma.ako brush chi nate rongtalatna nanga.
6. Dut on.enggipa do.bok ma.ako, bi.sa baksa gipin nolo donna nanga.

3.5.DO.BOK BIPANA SIMSAKANI :

1. Namgipa aro productive ong.gipa ba bi.sa ba.atna man.gipa bipako basena nanga.
2. Bipa bitchrina (breeding-na) jilgipa bipako agre ma.kete buduchi kae donna nangja.
3. Biparangko pangnan dintang nolo rakkina nanga.

4. Manggni biparangko apsan donna nangja.
5. Bipa roatani somoio uarangna namgipa cha.aniko on.na nanga.

3.5 ECTOPARASITES: jekai tik, lice, karok cha.atgipa jo.ong ba mites etc. ara do.boko bang.en donga aro iarang do.bokni an.senganiko, bi.sa man.aniko, be.en jrimani (productivity)-ko aro uarangni bigilrang silaniko namatja. Indiba iarangko changpengna gita man.a.

1. **Dipping** :- Do.bokko sam (Butox-0.1-0.4% soln) bringipa chi-ni tank-o sim.bolna nanga.
2. **Spraying** : Sam bringipa chi-chi do.bokrangko satkikia.
3. **Ivermectin inj**: Ivermectin bijiko su.eba ectoparasite ba be.en kosako donggipa jo.ongrangko control ka.na man.a.

CHAPTER 4: DO.BOKNA CHA.ANI ON.ANI:

Do.bokrangara gadoe ba ja.chroesa bol bijak ba sam-bolrangko cha.a ba browser ong.a aro uarangara bol bijakrangko aro ritimdaldal bijakrangko cha.na namnika. Do.bokrangara bol bijakrang ba sam-bol rangkosa cha.batani gimin, uarangko jilanio gipin jilanirangna bate koros komibata.

4.1 DO.BOKRANGNA ON.CHAKGIPA CHA.CHAK RING.CHAKANIRANG:

Do.bokrangna on.chakgipa cha.chak ringchakanirang bang.en gnang. Cha.chak ringchakanirangko sil ba bolniko tarina man.a. Cha.chakanirango gadodape ba su.budape ba ki.dape, do.bokrangara moila dakata. Uni gimin cha.chakani a.aoni on.tisa chukalao ong.na nanga aro cha.chakgipako maichiba peng.na nanga. Kadingdena man.gipa cha.chakanirangko do.bokrangna jakkalna man.a. Mitam cha.chakanirang Rectangular shape ni ong.a aro mitamrang Hexagonal ong.a .



Picture: Rectangular Feeder & Hexagonal Feeder for Adult Goats.

4.2. DO.BOKNI CHA.ANI:

An.chingni state-o donggipa samsirang aro sam bolrango protein-ni dongani komibea. Uni gimin oko donggipa aro bi.sana sok kangipa do.bokrangna conc. feed ba danako on.aniara mongsonggipa ong.a. Do.bokrangko kanta 8 -9 na cha.amna watode, uarangni bilakna nanggipa cha.aniko cha.a chu.ongaia.

Cha.amatana agreba, wachirangode sam bol bijakrangko on.na man.na gita, farm-o fodder bolrangko ge.aniba dongna nanga.

4.3 .DO.BOKNI NAMNIKGIPA SAM BOL BA BIJAKRANG:

Cha.amatana agreba, wachirango sam- bol bijakrangko do.bokna on.na nanga. Sam-bol ba Fodder bolrang jerangan an.chingni climatic condition-o ge.na nama:

Samsi: Me.rakku, job mi, Napier, Guinea grass etc.

Fodder bol /Samdim: Miskuri, te.brong, subabul, Neem, sojina etc.



DO.BOKNA CHA.ANI ON.ANIO DAKCHAKANI

| BILSI | CHA.ANI | SALANTINI NANGA | BADITA |
|----------------------------------|--|--|---------------|
| Sal 1 - 3 | Ma.ani sok | Nanga gita | |
| Sal 3 - anti 4 | Ma.ani dut | Nanga gita | |
| Anti 4 – ja 4 ona | Ma.ani dut-ko ringan baksa tangsek gipa sam-bol. | hisape nigrike on.bo. | |
| Ja 4 oni – Bipa ba bima roataona | Cha.amatna nanga Dana/ Conc .Mix | 8- 9 hrs 200gm | |
| Oko donggipa do.bok | Cha.amatna nanga Dana / Conc Mix | 8- 9 hrs 200gm | |
| Bi.sana sok on.gipa ma.gipana | Cha.amatna nanga Dana /Conc Mix | 8 – 9hrs 250gm | |
| Do.bok bipa | Samsi-ko Dana / Conc. Mix | Bipa roatgijani somoio 200gm salantio bipa roatgijani somoio. | |

CHAPTER 5: BIPA ROATANI ARO KASIE JILANI:

5.1 DO.BOKRANGKO BLSA PE.ATANI :

Do.bokrangara somoigitasan bipa roaigipa aro bi.sa ba.aigipa ong.a. Uarangara bilsio chang 2 san bi.sa ba.aia (April – June) aro (Sept – Nov). Gisep gisep wate jilgipa bewalo, mangsa do.bok bipa mang 25-30 bimarangko pal ra.e, bi.sa man.atna man.a. Inbreeding ong.aniko champengna gita, do.bok bima aro bipa apsan an.chini ma apsan ma.a paani ong.na nangja.

5.2 DO.BOK BIPAKO KASIANI:

Do.bok bipako kasie jilani namgnirang:

1. Do.bok jinmako bi.sa ba.atanio, Inbreeding ong.aniko champengna gita. Inbreeding ong.ode, do.bokrangni dal.a komia aro be.enni gita dingtang dingtang defectsko nikna man.a.
2. Do.bok kasirang mikmala aro uarangko altue handle ka.na man.a.
3. Do.bok kasirango, do.bok be.enni biba komia.
4. Kasigimin do.bokrang dal.ninga.
5. Do.bok bipako ja 2-3 o kasina man.a.
6. Manderang do.bokko ja 6 o kasina namnikbata.

CHAPTER 6: SABISIRANGKO CHAMPENGSOANI CHOLRANG:

Do.bok jilanio mingsa nangchongmotgipa dakna nanganiara, do.boko nikronggipa sabisiko champenge, uarangni sianiko aro tangka paisa gimaaniko komiatanin ong.a. Do.bokni bang.bata sabisirangkon senggngang diagnose ka.e, name simsaksoanichi aro tikka su.anichi champengsona man.a.

6.1 DO.BOKRANGKO TEST KA.E SABISIKO NIANI:

1. Do.bokrangni bimang an.sengo maidake nika aro sajoko mai dake nika, uko do.bok jilgiparang uina nanga.



A Healthy Goat

2. An.tantangni jilgipa do.bokrango maiba dingtanganiko ba an.senggijaniko nikode, jilgiparang sepangbatgipa Veterinary Dispensary ona re.ange aganena nanga aro uamangni agankupatianiko aro sana-bananiko on.na nanga.

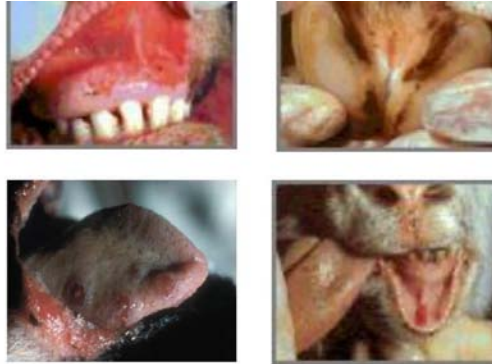
6.2 DO.BOKO NIKRONGGIPA SABISIRANG:

Sabisirangara do.bokrangni be.enni gita (physical, physiological, mental) ong.ronga bewaloni dingtangani ong.a. Sabisirangara :

1. Viruschi ong.atgipa sabisirang al diseases:

- a. **Foot and mouth disease (FMD):** Ia sabisiko ja.skep gnanggipa jilanirango nikna man.a. Ia saaniko man.on, do.bokrang ja.kora ong.a. Ia saani chinrangko sreo, ku.chilo, petop

ning.ao, wagamo aro ja.skep giseprango aro basakoba chi tope natotako sok-o aro sok ku.terango nikna man.a.



Picture: Mouth, Leg and Tongue lesion of FMD in Goats

- b. **Contagious ecthyma:** Do.bokni gingting aro ku.sikni gisepo donggipa bigil ran.e rikap rikap daka aro breta. Ku.sik ning.aoba pari daka.



Pictures: Lesion of Contagious Ecthyma

- c. **Goat Pox :** Do.bokrangni be.en ding.a. Mikronrang ripoma, ging jo.ola. Goat Pox saaniko man.on, nachil, gingting aro kimil ro.roe chagipa biaprango chinrangko nika. Uno natote topgiparang brete, pari daknaba man.a.

to sore.



Picture: Goat Pox

2. BACTERIACHI ONG.ATGIPA SABISIRANG:

- a. **Heamorrhagic Septiceamia(H.S.):**- Be.en ding.petpeta, rang.sitna neng.nikaniko man.a, gusua, gitok ripoma aro basakobade rang.san ga.ake siaia.
- b. **Tetanus:** Ia sabisiko ong.atgipa jo.ong, ning.tue matgipa parirang gita napna man.a. Ia saaniko man.on, do.bok il.engna siksakna man.ja (muscle stiff ong.a), name rama re.na man.ja, mikilrang nom.a, uarangni mikoani dingtanga, nachil aro ki.me songdoa, cha.na ringna man.ja.
 - a. **Brucellosis:** Oko dongani bon.kamgipa jarango bi.sa dugala. Do.bok biparang bi.sa pe.atna man.ja ado greng biritchurang ripoma.

3. NON SPECIFIC SABISIRANG:

- a. **Pneumonia :** Chinrangara- cha.a-ringani komia, jada dake dongaia, ging jo.ola, mikchi ong.a, sin.ana dil.dila aro do.bok bi.sarangde ia sabisiko man.on bang,en sia. Saa man.gipa do.bokrangko dintang donna nanga aro uarangko ding.e rakkina nanga. Mikka wamitingo, uarangko cha.amna on.na nangja.
- b. **Ok re.a/ Okgitchak saa (SCOUR):** Ki.i nom.e ba chirara dake ba basakobade an.chi brine, ki.simsime dongaia. Ki.simsimani ki.sangrang ki.i nange, moila dake donga aro kni/be.en ran.a ba dehydration ong.a.
- c. **Okpinga (BLOAT/TYMPANITIS):** Ok pinge ok dal.a aro ok-ko dokon dama doka gita gam.a, rang.sitna neng.nikaniko man.a. ga.tinge donga aro wagam chikkrota.

:: Bloat/ Tympanitis in Goat



- d. **An.chi komia (ANAEMIA) :** mikron-ni mucus membrane bokbleka, do.bokni kimil aro bigil rikap rikap daka aro ran.a, cha.a ringa komia, nom.a, su.bu an.chi dake gitchaka, mikkang aro sko ripoma.



- e. **Bi.sa ramao changketa (DYSTOKIA)** : Bi.sa ma.ani satiponi ong.katna man.gija changkete donga.
- f. **Sa.tip ga.akja (RETENTION OF PLACENTA)**: Bi.sa atchiani kanta 48 ni ja.manoba, sa.tip (placenta) ga.akja aro sa.tip seengpila.

Picture: Retention of Placenta



OF UTERUS

- g. **Sa.tip ong.kata (PROLAPSE OF UTERUS)**: Bi.sa man.ani ja.mano, sa.tip bikpila aro bi.sa ramaoni ong.kata.
- h. **Ok-ningo donggipa jo.ongrang (ENDOPARASITE)** : Okningo donggipa jo.ongrang jekai Nematod, Cestode or trematodes- rang do.bokko ok re.ata, ki.i nangstipe ki.sangko moila ong.ata, be.en ram.anga, name dal.ja, dal.ningja aro nom.a ba bilakja.
- i. **Karok cha.a (MANGE)** : Gitchak gitchak dake be.eno naa, be.en ka.kitana siksika, kimil go.oka aro be.en bigil rikap rikap daka.

Picture: Mange in goat



CHAPTER 7 : TIKKA SU.NA DONGIMIN SOMOI:

| JA | TIKKA | DO.BOK DAL.GIPA | JA 6 NA BATGIPA DO.BOK BLSA |
|-----------|--|----------------------------|--|
| JANUARY | Contagious Caprine Pleuro Pnuemonia | 0.2ml I/dermal | 0.2ml I/dermal |
| MARCH | Heamorrhagic Septiciamia(HS) | 5ml s/c | 2.5ml s/c |
| APRIL | Goat Pox | Scratch method | Scratch method |
| MAY | 1.Entero Loxeanmia 2. FMD | 5ml s/c 5ml s/c | 2.5ml s/c 5ml s/c |
| JULY | Black Quarter(BQ) | 5ml s/c | 2.5ml s/c |
| AUGUST | FMD | 5ml s/c | 0.5ml s/c |
| SEPTEMBER | Enterotoxeamia | 5ml s/c | 2.5ml s/c |

3. BIMANI RECORD:-

| BIMANI NO | PAGIPANI NO | MA.GIPANI NO | ATCHIANI TARIK | ATCHIANI TYPE | JILANI BEWAL | BILSI ARO MA.WATANI SOMOIO JRIMANI | DO.BOK BL.SARANGNI DETAILS | REMARKS |
|-----------|-------------|--------------|----------------|---------------|--------------|------------------------------------|----------------------------|---------|
| | | | | | | | | |

4.BIPANI RECORD:-

| BIPANI NO | PAGIPANI NO | MA.GIPANI NO | ATCHIANI TARIK | ATCHIO JRIMANI | ATCHIANI TYPE | JILANI BEWAL | BILSI ARO MA.WATANI SOMOIO JRIMANI | PROGENY PROGRAMME | REMARK |
|-----------|-------------|--------------|----------------|----------------|---------------|--------------|------------------------------------|-------------------|--------|
| | | | | | | | | | |

5. LAMB CROP REGISTER:-

| BILSI | KARIS EASON | BIPALONG.ANI TARIK | BIPANI NO | BIMANO | ATCHIANI TARIK | BISANI NO | BIMAMA BIPA | ATCHIO JRIMANI | MAIKAI ATCHIA | ALDUGIPA BIMANI NO | MA.WATANI TARIK | KASIANI TARIK | SAL120 O JRIMANI | PALANI SOMOIO JRIMANI | MAIKAI PALA | PALANI TARIK | Remark |
|-------|-------------|--------------------|-----------|--------|----------------|-----------|-------------|----------------|---------------|--------------------|-----------------|---------------|------------------|-----------------------|-------------|--------------|--------|
| | | | | | | | | | | | | | | | | | |

6. HEALTH REGISTER:-

| TARIK | JILANI NO | MAI ONG.A | MAIKAI SANA | REMARK |
|-------|-----------|-----------|-------------|--------|
| | | | | |