**PROCEEDING 11th COMBINED JOINT AGRESCO MEETING OF ANIMAL HEALTH /ANIMAL PRODUCTION / ANIMAL PRODUCTION AND FISHERIES / ANIMAL SCIENCE AND FISHERIES SCIENCE/ ANIMAL HEALTH AND FISHERIES OF STATE AGRICULTURAL UNIVERSITIES OF GUJARAT HELD AT AAU, ANAND DURING APRIL 7-9, 2015**

**Chairman :** Prof. M.C. Varshneya, Vice Chancellor, Kamdhenu University

**Co-Chairman:**Dr. R.R. Shah, Director of Research, SDAU, SK Nagar

**Co-Chairman:**Dr. A.Y. Desai, Director of Research, JAU, Junagadh

**Rapporteurs :** Dr. B.N. Suthar, Prof. & Head, Gynaecology, Vet. College, SDAU

Dr. D.N. Rank, Prof. & Head, Dept. of AGB, Vet. College, AAU

The details of Recommendations and New Technical Programmes presented, discussed and approved during the session are as under:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Universities** | **Recommendations** | | | | **New Tech. Prog.** | |
| **Farming Community** | | **Scientific Community** | | **Proposed** | **Approved** |
| **Proposed** | **Approved** | **Proposed** | **Approved** |
| **AAU** | 08 | 08 | 14 | 14 | 41 | 39 |
| **JAU** | 05 | 03 | 15 | 13 | 13 | 12 |
| **NAU** | 04 | 04 | 07 | 07 | 15 | 13 |
| **SDAU** | 03 | 03 | 06 | 05 | 12 | 12 |
| **Kamdhenu University** | - | - | - | - | 04 | 04 |
| **Total** | 20 | 18 | 42 | 39 | 85 | 80 |

**11.8.1 Recommendations**

**A. Recommendations for Farming Community**

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| --- | --- |
| **Anand Agricultural University, Anand** | |
| 11.8.1.1 | **Effect of Feeding Milk Replacer on Holstein-Kankrej Crossbred Calves** |
| There is a reduction of 39.73 and 33.91 per cent in feed cost per kilo gain in body weight of crossbred calves (HF X Kankrej) from birth to three months of age reared on self made milk replacer (1:10 dilution) consisting of 15 per cent milk, 11 per cent casein, 18 per cent maize, 18 per cent soya meal, 15 per cent soya seed, 8 per cent jaggery, 12 per cent palm oil and 3 per cent minerals, vitamins and salt over milk feeding (control) and feeding commercially available milk replacer, respectively. |
| જન્મથી ત્રણ મહિનાની ઉંમરના સંકર (એચ.એફ. X કાંકરેજ) બચ્ચાંને જાતે બનાવેલાં મિલ્ક રીપ્લેસર (૧૫ ટકા દૂધ, ૧૧ ટકા કેસીન, ૧૮ ટકા મકાઇ, ૧૮ ટકા સોયા મીલ, ૧૫ ટકા સોયાબીનનાં બીજ, ૮ ટકા ગોળની રસી, ૧૨ ટકા પામોલીન તેલ અને ૩ ટકા ક્ષાર મિશ્રણ, પ્રજીવકો અને મીઠું) ને પાણી સાથે ૧:૧૦ ના પ્રમાણમાં પીવડાવવાથી, એકલા દૂધ પીવડાવવાની સરખામણીએ, ૩૯.૭૩ ટકા અને બજારમાં મળતાં મિલ્ક રીપ્લેસર કરતાં ૩૩.૯૧ ટકા જેટલો ખોરાકી ખર્ચમાં પ્રતિ કિલો શારીરીક વ્રુધ્ધિ દર પર ઘટાડો જોવા મળે છે. |
| Action : Research Scientist & Head, LRS, AAU, Anand |
| 11.8.1.2 | **Study of nutritional status of dairy animals of Mahisagar district** |
| The dairy farmers of Mahisagar district are recommended to feed daily additional 1.0 kg compound concentrate mixture (20% CP; 65% TDN) to crossbred cows yielding 12-14 kg during summer and in monsoon in order to fulfill their nutrient requirement. |
| મહીસાગર જીલ્લાના પશુપાલકોને દૈનિક ૧૨-૧૪ કિ.ગ્રા. દૂધ આપતી સંકર ગાયોની પોષક તત્વોની જરૂરિયાત પૂર્ણ કરવા ઉનાળાની અને ચોમાસાની ઋતુમાં હાલ આપવામાં આવતા દાણ ઉપરાંત દૈનિક ૧.૦ કિ.ગ્રા. વધારાનું દાણ (૨૦% ક્રુડ પ્રોટીન; ૬૫% કુલ પાચ્ય પોષક તત્વો) આપવાની ભલામણ કરવામાં આવે છે. |
| Action: Res. Sci. & Head Animal Nutrition Research Station, A.A.U., Anand |
| 11.8.1.3 | **Study of nutritional status of dairy animals of Mahisagar district** |
| The dairy farmers of Mahisagar district are recommended to feed daily additional 1.0 kg and 1.5 kg compound concentrate mixture (20% CP; 65% TDN) to buffaloes yielding 6-10 kg and 10-12 kg milk, respectively, throughout the year in order to fulfill their nutrient requirements. |
| મહીસાગર જીલ્લાના પશુપાલકોને દૈનિક ૬ થી ૧૦ અને ૧૦ થી ૧૨ કિ.ગ્રા. દૂધ આપતી ભેંસોની પોષક તત્વોની જરૂરિયાત પૂર્ણ કરવા માટે હાલ આપવામાં આવતા દાણ ઉપરાંત સમગ્ર વર્ષ દરમ્યાન દૈનિક અનુક્ર્મે ૧.૦. અને ૧.૫ કિ.ગ્રા. વધારાનું દાણ (૨૦% ક્રુડપ્રોટીન; ૬૫% કુલ પાચ્ય પોષક તત્વો) આપવાની ભલામણ કરવામાં આવે છે. |
| Action: Res. Sci. & Head, Animal Nutrition Research Station, A.A.U., Anand |
| 11.8.1.4 | **Studies on the effect of feeding bypass fat and yeast (*Saccharomyces cerevisiae*) supplemented total mixed ration to growing Surti kids under heat stress.** |
| The goat keepers of middle Gujarat are recommended to feed a combination of yeast (*Saccharomyces cerevisiae*) and bypass fat each @ 2% of total mixed ration (TMR) to weaned Surti kids during hot humid weather, to reduce the impact of heat stress, improve daily gain and feed conversion efficiency with 24% reduction in feed cost per kg gain. |
| મધ્ય ગુજરાતના બકરાં પાલકોને ભલામણ કરવામાં આવે છે કે ગરમ અને ભેજવાળા વાતાવરણ દરમ્યાન ધાવણ છોડાવેલ સુરતી લવારાંને યીસ્ટ (સેકેરોમાયસીસ સેરેવિસી) અને બાયપાસ ફેટ પ્રત્યેક ૨% લેખે સંપૂર્ણ મિશ્રિત ખોરાકમાં ઉમેરવાથી ગરમીથી થતી તાણ ઘટે છે તથા દૈનિક વૃધ્ધિ દર અને ખોરાકની રૂપાંતરણ ક્ષમતામાં સુધારો થાય છે. જેથી પ્રતિ કિ.ગ્રા. વજન વૃધ્ધિ દરના ખોરાકી ખર્ચમાં ૨૪%નો ઘટાડો થાય છે. |
| Action: Res. Sci. & Head, Animal Nutrition Research Station, A.A.U., Anand |
| 11.8.1.5 | **Studies on the effect of feeding bypass fat and yeast (*Saccharomyces cerevisiae*) supplemented total mixed ration to Surti goats during hot summer** |
| To reduce the impact of heat stress without any increment in the feed cost, the goat keepers of middle Gujarat are recommended to feed yeast (*Saccharomyces cerevisiae*) @ 2% of total mixed ration (TMR) to adult Surti goats during hot summer when they are facing extreme severe stress. |
| મધ્ય ગુજરાતના બકરાં પાલકોને ભલામણ કરવામાં આવે છે કે ઉનાળામાં અતિશય ગરમ વાતાવરણ દરમ્યાન પુખ્ત સુરતી બકરાંના સંપૂર્ણ મિશ્રિત ખોરાકમાં ૨% યીસ્ટ (સેકેરોમાયસીસ સેરેવિસી) ઉમેરવાથી ખોરાકીય ખર્ચમાં વધારો કર્યા સિવાય ગરમીથી થતી તાણની અસરમાં ઘટાડો થાય છે. |
| Action: Res. Sci. & Head, Animal Nutrition Research Station, A.A.U., Anand |
| 11.8.1.6 | **Studies on morphometric characteristics of udder and teats, milking practices followed by farmers and incidences of sub-clinical mastitis in crossbred cows maintained on commercial dairy farms in Anand district** |
| Pendulous and goaty udders are more susceptible to subclinical Mastitis (60% and 80% incidences) as compared to bowl and round shaped (46 and 36% incidences) udder in plueriparous crossbred cows. Therefore, dairy farmers are advised that crossbred cows with pendulous and goaty udder should not be selected / purchased. |
| ઢીલાં અને ઝુલતાં (૬0%) તથા બકરીના બાવલાં જેવું બાવલું ધરાવતી ગાયો (૮0%) ની સરખામણીએ છાલીયા આકારનાં બાવલાં (૩૬%) તથા ગોળાકાર બાવલા (૪૬%) ધરાવતી ગાયોમાં આઉનો છૂપો સોજો ઓછો માલુમ પડેલ. આથી પશુપાલકોને ભલામણ કરવામાં આવે છે કે ઢીલાં અને ઝુલતાં કે બકરીનાં બાવલાં જેવું બાવલું ધરાવતી ગાયો પસંદ કરવી/ખરીદવી હિતાવહ નથી. |
| Action: Asso. Prof.& Head, Dept. of Animal Science, BACA, AAU, Anand |
| 11.8.1.7 | **Studies on morphometric characteristics of udder and teats, milking practices followed by farmers and incidences of sub-clinical mastitis in crossbred cows maintained on commercial dairy farms in Anand district** |
| Udder depth greater than 28 cm and teat diameter higher than 2.75 cm are the prominent risk factors (17 and 10 % higher incidences than udder depth <28cm and teat diameter <2.75cm, respectively) for subclinical mastitis (SCM). Therefore, dairy farmers are advised to consider udder and teat biometry as a useful parameter to reduce the risk of SCM in crossbred cows. |
| જે સંકર ગાયોમાં બાવલાંની ઉંડાઈ ૨૮ સે.મી. અને આંચળનો વ્યાસ ૨.૭૫ સે.મી. કરતાં વધું હોય તેવી ગાયોમાં આઉનો છૂપો સોજો વધું જણાયો છે. આથી પશુપાલકોને સલાહ આપવામાં આવે છે કે બાવલાં તથા આચંળનાં માપને ઉપયોગી માપદંડ ગણી પગલાં લેવાં જેથી ગાયોમાં આઉનો છૂપો સોજો ઘટાડી શકાય. |
| Action: Asso. Prof. & Head, Dept. of Anim. Science, BACA, AAU, Anand |
| 11.8.1.8 | **Studies on morphometric characteristics of udder and teats, milking practices followed by farmers and incidences of sub-clinical mastitis in crossbred cows maintained on commercial dairy farms in Anand district.** |
| Crossbred cows suffering from subclinical mastitis yielded 14 % less milk per day than the healthy cows. Therefore, the dairy farmers are advised to test their milking herd regularly for subclinical mastitis. |
| આઉનાં છૂપા સોજાથી પીડાતી સંકર ગાયો તંદુરસ્ત ગાયોની સરખામણીમાં ૧૪% જેટલું ઓછું દૂધ આપતી હોઇ પશુપાલકોને ભલામણ કરવામાં આવે છે કે નિયમિત રીતે દુંઝણી ગાયોનાં ધણમાં આઉનાં છૂપા સોજાની તપાસ કરાવવી. |
| Action: Asso. Prof. & Head, Dept. of Anim. Science, BACA, AAU, Anand |
| **Junagadh Agricultural University** | |
| 11.8.1.9 | **Clinical Studies on dental problems in pet animals** |
| Recommendation: Dropped |
| Action: Prof. & Head, Dept. of Vet. Surgery & Radiology, College of Veterinary Science & A. H., JAU, Junagadh |
| 11.8.1.10 | **Quality assessment of raw milk at the production point** |
| Recommendation: Dropped |
| Action: Prof. & Head, Dept. of Vet. Public Health and Epidemiology, College of Veterinary Science & A. H., JAU, Junagadh |
| 11.8.1.11 | **Growth, mortality and stock assessment of Soldier cat fish *Osteogeneiosus militaris* of Veraval coast** |
| The present level of fishing of the Soldier cat fish confirmed that the stock is over exploited in Veraval. Hence, it is recommended to fishermen of Veraval not to increase the fishing efforts. |
| વેરાવળનાં માછીમારોને જાણ કરવામાં આવે છે કે સોલ્જર કેટ ફીશ )ગોજી( પ્રજાતિની વધુ પડતી માછીમારી કરવાથી ભવિષ્યમાં તેમની સંખ્યામાં ઘટાડો થશે. આથી આ માછલીની સમજણપૂર્વકની માછીમારી કરવા ભલામણ કરવામાં આવે છે. |
| Action : Prof. & Head, FRM Dept., College of Fisheries, JAU, Veraval |
| 11.8.1.12 | **Study the effect of some natural cryoprotectants on quality of Japanese threadfin breams (*Nemipterus japonicus*) surimi during frozen storage** |
| Surimi processors and exporters are recommended to use 1% shrimp chitosan as natural cryoprotectant in Japanese threadfin bream surimi to get better gel strength and good water holding capacity instead of commercially used cryoprotectants (sugar, sorbitol, polyphosphate) upto 240 days under frozen storage at -18oC. |
| સુરમી બનાવતાં મત્સ્ય પ્રક્રીયાકારો અને નિકાસકારોને ભલામણ કરવામાં આવે છે કે તે રાણી ફીશની સુરમીને -૧૮**O**સે તાપમાને સંગ્રહ કરવા માટે રૂઢીગત વપરાતા ક્રાયોપ્રોટેકટન્ટના બદલે કુદરતી ક્રાયોપ્રોટેકટન્ટ તરીકે ૧% શ્રીમ્પ (ઝીંગા) કાયટોસનનો ઉપયોગ કરવાથી રાણી ફીશની સુરમીની ગુણવતા, પાણી સંગ્રહ ક્ષમતા અને સ્થિતિસ્થાપકતા (જેલ સ્ટ્રેન્થ) ૨૪૦ દિવસો સુધી સારી રીતે જાળવી શકાય છે. |
| Action: Prof. & Head, Dept. of Harvest and Post-harvest Technology, College of Fisheries, J.A.U., Veraval. |
| 11.8.1.13 | **Effect of salinity on survival rate of *Penaeus monodon* larvae** |
| It is recommended to hatchery entrepreneurs to use 15 ppt salinity water for larval (zoea and mysis) rearing and 20 ppt salinity water for post-larval (PL1 to PL20) rearing of *Penaeus monodon* for higher survival. |
| હેચરી ઉદ્યોગ સાહસિકોને ભલામણ કરવામાં આવે છે કે પીનીયસ મોનોડોનના લાર્વાના (ઝૂઈઆ તથા માઈસીસ) ઉછેર માટે ૧૫ પાર્ટસ પર થાઉઝન્ડ (પીપીટી) તથા પોસ્ટ લાર્વલ (પી.એલ.-૧ થી પી.એલ.-૨૦) ઉછેર માટે ૨૦ પાર્ટસ પર થાઉઝન્ડ (પીપીટી) ખારાશવાળુ પાણી વાપરવાથી વધુ જીવંત દર મળે છે. |
| Action : Research Officer, Fisheries Research Station, JAU, Okha |
| **Navsari Agricultural University, Navsari** | |
| 11.8.1.14 | **Effect of polyherbal ecbolic, minerals and vitamins supplementation as a prophylactic treatment regimen at time of calving on reproductive performance in Surti buffaloes.** |
| The dairy farmers are advised to initiate the following oral prophylactic treatment regimen within 3 hrs of calving in Surti buffaloes for better economic benefits as it had significant effect to reduce post-partum oestrus and service period.   |  |  | | --- | --- | | **Day** | **Dosage of prophylactic treatment regimen** | | Day of calving | Commercially available 200 ml of polyherbal ecbolic preparation + 200 ml oral calcium preparation with energy boosters + 10 ml Vit. A, D, E with selenium and biotin | | 2nd to 5th day | Commercially available 100 ml of polyherbal ecbolic preparation + 100 ml oral calcium preparation with energy boosters + 10 ml Vit. A, D, E with selenium and biotin | | 6th to 10th day | Commercially available 100 ml oral calcium preparation with energy boosters + 10 ml Vit. A, D, E with selenium and biotin | |
| આથી પશુપાલકોને ભલામણ કરવામાં આવે છે કે સુરતી ભેંસોમાં વિયાણ બાદના ૩ કલાકની અંદર નીચે જણાવ્યા મુજબનું મિશ્રણ (પ્રોફાયલેક્ટીક ટ્રીટમેન્ટ રેજીમ) પીવડાવવાનું ચાલુ કરવાથી અસરકારક રીતે વિયાણ બાદ વેતરમાં આવવાના અને ગાભણ થવાના સમય ગાળામાં ઘટાડો થવાથી આર્થિક રીતે ફાયદાકારક રહે છે.   |  |  | | --- | --- | | **દિવસ** | **ખાસ પ્રકારનું મિશ્રણ (પ્રોફાયલેક્ટીક ટ્રીટમેન્ટ રેજીમ) નું માપ** | | વિયાણનો દિવસ | બજારમાં મળતાં વ્યાવસાયિક ઉત્પાદનોમાંનું ૨૦૦ મીલી પોલીહર્બલ ઇકબોલિક મિશ્રણ, ૨૦૦ મીલી શક્તિવર્ધક કેલ્શિયમ મિશ્રણ અને ૧૦ મીલી સેલેનિયમ અને બાયોટીન સાથેનું વિટામિન એ, ડી અને ઇ મિશ્રણ | | બીજાથી પાંચમાં દિવસ સૂધી | બજારમાં મળતાં વ્યાવસાયિક ઉત્પાદનોમાંનું ૧૦૦ મીલી પોલીહર્બલ ઇકબોલિક મિશ્રણ, ૧૦૦ મીલી શક્તિવર્ધક કેલ્શિયમ મિશ્રણ અને ૧૦ મીલી સેલેનિયમ અને બાયોટીન સાથેનું વિટામિન એ, ડી અને ઇ મિશ્રણ | | છઠ્ઠાથી દસમાં દિવસ સૂધી | બજારમાં મળતાં વ્યાવસાયિક ઉત્પાદનોમાંનું ૧૦૦ મીલી શક્તિવર્ધક કેલ્શિયમ મિશ્રણ અને ૧૦ મીલી સેલેનિયમ અને બાયોટીન સાથેનું વિટામિન એ, ડી અને ઇ મિશ્રણ | |
| Action : Res. Sci. & Head, LRS, NAU, Navsari |
| 11.8.1.15 | **Study on banana shrimp (*F. merguiensis*) growth under different water salinity levels** |
| The farmers of coastal area of Gujarat undertaking brackish water shrimp culture are recommended to maintain pond water salinity of 30 to 40 parts per thousand (ppt) for better growth and economic returns in banana shrimp rearing. |
| ગુજરાતના દરિયા કાંઠા વિસ્તારમાં ભાંભરા પાણીના ઝીંગા પાલન કરતા ખેડૂતોને ભલામણ કરવામાં આવે છે કે બનાના ઝીંગા પ્રજાતિના ઉછેરમાં તળાવના પાણીની ખારાશ ૩૦ થી ૪૦ પાર્ટસ પર થાઉઝંડ (પીપીટી) જાળવવાથી વધુ સારો વિકાસ અને વળતર મેળવી શકાય છે. |
| Action : Res. Sci., Coastal Soil Salinity Research Station, Danti, NAU, Navsari |
| 11.8.1.16 | ***In vitro* evaluation of sugarcane bagasse treated with different level of urea and moisture** |
| During the fodder scarcity, the farmers are recommended to treat 100 kg sugarcane bagasse with 3.5 kg urea in 40 liters of water and ensile it for three weeks to improve its crude protein content and digestibility. |
| પ્રતિ ૧૦૦ કી.ગ્રા. શેરડીની બગાસને, ૩.૫ કિ.ગ્રા. યુરીયાવાળા ૪૦ લિટર પાણીનો છંટકાવ કરીને, ત્રણ અઠવાડીયા સુધી ચુસ્ત રીતે બંધ રાખવાથી તેના નત્રલ પદાર્થોમાં અને પાચ્યતામાં વધારો થાય છે. આથી ઘાસચારાની અછતના સમયમાં પશુપાલકોને તેની ભલામણ કરવામાં આવે છે. |
| Action: Prof. & Head, Dept. of Animal Nutrition, Vet. College, NAU, Navsari |
| 11.8.1.17 | **Evaluation of phytogenic feed additive supplementation on growth performance, nutrient utilization, anti-oxidants and health status of Surti kids** |
| The Surti goat keepers are recommended to supplement garlic bulb (12 gram or 8-10 cloves/day) to the growing kids (5-6 months) for two months to achieve better growth rate and profit. |
| સુરતી બકરા પાલકોને ભલામણ કરવામાં આવે છે કે પાંચથી છ મહીનાનાં લવારાઓને પુરક આહાર તરીકે લસણ (૧૨ ગ્રામ અથવા ૮ થી ૧૦ કળી/દિન) બે મહીના સુધી ખવડાવવાથી શારિરીક વ્રુધ્ધિ દરમાં અને આવકમાં વધારો થાય છે. |
| Action: Prof. & Head, Dept. of Animal Nutrition, Vety. College, NAU, Navsari |
| **Sardarkrushinagar Dantiwada Agricultural University, Sardarkrushinagar** | |
| 11.8.1.18 | **Impact of Water Sprinkling (Foggers) on performance of Mehsana buffaloes in Summer season** |
| Buffalo rearing farmers of North Gujarat are advised to make the provision of foggers in animal shed as it reduces the heat stress, improves milk yield and fat per cent of the milk and dry matter intake in Mehsana buffaloes. |
| ઉત્તર ગુજરાતમાં ભેંસો ઉછેર કરતા પશુપાલકોને સલાહ આપવમાં આવે છે કે પશુ આવાસમાં પાણીના છંટકાવ (ફોગર્સ) ની જોગવાઈ કરવાથી ભેંસોમાં ગરમીના તણાવમાં ઘટાડો થાય છે તેમજ દુધ ઉત્પાદન, દુધની ચરબીની ટકાવારી અને ખોરાકમાં સુકા તત્વો લેવાનાં પ્રમાણમાં વધારો થાય છે. |
| Action : Res. Sci. & Head, LRS, SDAU, **Sardarkrushinagar** |
| 11.8.1.19 | **Establishment of Elite herds of Kankrej cattle and Mehsana buffalo** |
| It is recommended to the farmers and dairy co-operative unions of North Gujarat to promote the rearing of the Kankrej cows along with Mehsana buffaloes for sustainable milk production throughout the year. |
| ઉત્તર ગુજરાતમાં ખેડૂતો તથા દુધ ઉત્પાદક સંઘોને વર્ષ દરમ્યાન દુધ ઉત્પાદન ટકાવી રાખવા માટે મહેસાણી ભેંસોની સાથે કાંકરેજ ગાયો રાખવા માટે પ્રોત્સાહિત કરવા ભલામણ કરવામાં આવે છે. |
| Action : Res. Sci. & Head, LRS, SDAU, **Sardarkrushinagar** |
| 11.8.1.20 | **Retrospective study of reduced service period in Kankrej cattle and Mehsana buffaloes** |
| The major etiological factors responsible for prolonged service period in Kankrej cattle and Mehsani buffaloes are post-partum anoestrus and endometritis as well as repeat breeding. |
| કાંકરેજ ગાયો અને મહેસાણી ભેંસોમાં વિયાણ બાદના લાંબા સમય ગાળે ગર્ભાધારણનાં કારણોમાં, વિયાણ બાદ લાંબા સમય સુધી વેતરે ન આવવું અને વારંવાર ઉથલા મારવા તથા ગર્ભાશયનો ચેપ મુખ્ય કારણો છે. તેથી કાંકરેજ ગાયો અને મહેસાણી ભેંસોમાં વિયાણ બાદનાં ગર્ભઘારણનાં લાંબા સમયગાળાને ઘટાડવાં તે મુજબ યોગ્ય સારવાર કરવવાની ભલામણ કરવામાં આવે છે. |
| Action : Res. Sci. & Head, LRS, SDAU, **Sardarkrushinagar** |

**B. Recommendations for Scientific Community**

|  |  |
| --- | --- |
| **Anand Agricultural University** | |
| 11.8.1.21 | **Studies on the effect of feeding bypass fat and yeast (*Saccharomyces cerevisiae*) supplemented total mixed ration to growing Surti kids under heat stress** |
| Weaned Surti kids during hot humid weather, when supplemented with a combination of bypass fat and yeast each @ 2% of total mixed ration (TMR) resulted in significant (P<0.05) reduction in rectal temperature, respiration rate and heart rate and thus reduced the impact of heat stress. |
| Action : Research Scientist & Head, Animal Nutrition Research Station, A.A.U., Anand |
| 11.8.1.22 | **Studies on the effect of feeding bypass fat and yeast (*Saccharomyces cerevisiae*) supplemented total mixed ration to growing Surti kids under heat stress** |
| The combination of 2% each of bypass fat and yeast (*Saccharomyces cerevisiae*) when supplemented in total mixed ration (TMR) for weaned Surti kids during hot humid weather, the average digestibility coefficient of DM, OM, CP, EE and CF was increased (P<0.05). Similar was the trend for blood glucose. However, the enzyme and mineral profile studied was not affected due to supplementation. |
| Action : Research Scientist & Head, Animal Nutrition Research Station, A.A.U., Anand |
| 11.8.1.23 | **Studies on the effect of feeding bypass fat and yeast (*Saccharomyces cerevisiae*) supplemented total mixed ration to Surti goats during hot summer** |
| Adult Surti goats facing extreme severe stress during hot summer, when fed TMR supplemented with 2% bypass fat or with 2% yeast alone or with combination of bypass fat and yeast, the respiration rate and heart rate were significantly reduced during afternoon as compared to control group indicating thermal comfort. |
| Action : Research Scientist & Head, Animal Nutrition Research Station, A.A.U., Anand |
| 11.8.1.24 | **Studies on the effect of feeding bypass fat and yeast (*Saccharomyces cerevisiae*) supplemented total mixed ration to Surti goats during hot summer** |
| The yeast (*Saccharomyces cerevisiae*) alone (2%) or combination of 2% each of bypass fat and yeast in total mixed ration (TMR) fed to adult Surti goats resulted in better digestibility of DM, CP & CF. However, EE digestibility was better (P<0.05) in bypass fat supplemented (2%) group. The NFE digestibility was significantly (P<0.05) higher in supplemented group i.e. yeast and bypass fat alone or in combination. The treatment groups did not differ for serum total protein, albumin, globulin, cholesterol and blood glucose concentration. However, triglycerides concentration was higher in bypass fat alone and in combination groups. Conversely, blood urea nitrogen was significantly reduced in supplemented groups. The creatinine concentration was lower in control and yeast supplemented groups but bypass fat and combination groups recorded significantly (P<0.05) higher value. There was no difference in concentration of serum minerals, viz., calcium, phosphorous, sodium, potassium and magnesium. |
| Action : Research Scientist & Head, Animal Nutrition Research Station, A.A.U., Anand |
| 11.8.1.25 | **Development of area-specific mineral mixture formulations for Vadodara district** |
| Based on the prioritization of limiting minerals in Vadodara district, the area specific mineral mixture has been formulated which would make up the deficiency when fed @ 30g/head/day to dairy animals in addition to the current feeding practices. |
| Action : Research Scientist & Head, Animal Nutrition Research Station, A.A.U., Anand |
| 11.8.1.26 | **Development of recombinant viral vectored bivalent vaccine against Marek’s and Newcastle disease virus in poultry** |
| A new genotype XIII of Newcastle disease (ND) virus reported from other parts of the world is also circulating in India as ascertained by molecular phylogeny based on whole genome sequencing. Therefore, it is recommended to update currently used ND vaccines |
| Action: Prof. & Head, Dept. of Animal Biotech., Vety. College, AAU, Anand |
| 11.8.1.27 | **Regulation of Activin receptor type IIB (ACVR2B) expression through RNA interference in Goat Myoblast Cells** |
| Artificial micro RNAs under muscle specific promoter is recommended to down-regulate Activin receptor type IIB (ACVR2B) to enhance the muscle mass in goat. |
| Action: Prof. & Head, Dept. of Ani. Biotech., Vety. College, AAU, Anand |
| 11.8.1.28 | **SNP Detection and Validation in Squamous Cell Carcinoma of Horn in Kankrej Cattle (*Bos indicus*) using Next Generation Sequencing** |
| Up-regulation of KRT6A, KRT6B, KRT6C, KRT14, SFN, KRT84, PI3, CA1, GJB2, COL17A1, ANLN, SERPINB5 genes and down-regulation of BoLA, SCGB1A1, CXCL17, KRT19, BPIFB1, NR4A1, ATF3, LRIG1, TFF3 genes recommended to be monitored in squamous cell carcinoma of horn (Horn Cancer) in Kankrej bullocks. |
| Action: Prof. & Head, Dept. of Animal Biotech., Vet. College, AAU, Anand |
| 11.8.1.29 | **SNP Detection and Validation in Squamous Cell Carcinoma of Horn in Kankrej Cattle (*Bos indicus*) using Next Generation Sequencing** |
| It is recommended to study deregulation of cell cycle pathways; NFKß and MAPKs pathways; LPS signalling pathway; EGF-R and PI3K-Akt pathways for squamous cell carcinoma of horn (Horn Cancer) in Kankrej bullocks. |
| Action: Prof. & Head, Dept. of Anim. Biotech., Vety. College, AAU, Anand |
| 11.8.1.30 | **SNP Detection and Validation in Squamous Cell Carcinoma of Horn in Kankrej Cattle (*Bos indicus*) using Next Generation Sequencing** |
| It is recommended to use SNP [T🡪C] at position 63251805 (dBSNP ID rs136870681) in BPIFA1 gene as a genetic marker in squamous cell carcinoma of horn (Horn Cancer) in Kankrej bullocks. |
| Action: Prof. & Head, Dept. of Animal Biotech., Vet. College, AAU, Anand |
| 11.8.1.31 | **Study on Parasitic infestation of Goats in Anand District** |
| It is advisable to have prophylactic deworming during pre-monsoon and post-winter seasons for Nematodes (*Trichostrongylus* spp.; *Trichuris* spp.) and Cestode (*Moniezia* spp.) infections in Goats of Anand District. |
| Action: Prof. & Head, Dept. of Vet. Parasitology, Vet. College, AAU, Anand |
| 11.8.1.32 | **Abattoir studies on Amphistomosis of Buffaloes** |
| It is advisable to have prophylactic antitrematodal treatment during pre-winter and pre-monsoon seasons for *Paramphistomum cervi, Cotylophoron cotylophorum and Gigantocotyle explanatum* infections in buffaloes of Anand and Ahmedabad districts. |
| Action: Prof. & Head, Dept. of Vet. Parasitology, Vet. College, AAU, Anand |
| 11.8.1.33 | **Abattoir studies on Fasciolosis of Buffaloes** |
| It is advisable to have prophylactic flukicidal treatment during pre-winter and pre-monsoon seasons for *Fasciola gigantica* infection in buffaloes of Anand and Ahmedabad districts. |
| Action: Prof. & Head, Dept. of Vet. Parasitology, Vet. College, AAU, Anand |
| 11.8.1.34 | **Clinical application of standardized treatment protocols in different non-cataract surgical disorders of eye in animals** |
| A 2.8 mm pointed tip 45° angled keratome is suggested for surgical removal of *Setaria* spp. worm from anterior chamber of horse eye by modified clear corneal stab incision. |
| Action: Prof. & Head, Dept. of Vet. Surgery & Radiology, Vet. College, AAU, Anand |
| **Junagadh Agricultural University, Junagadh** | |
| 11.8.1.35 | **Survey on ethno-veterinary practices and preliminary evaluation of antibacterial activity of commonly used plants for animal health in Junagadh district** |
| Methanol extract of *Prosopis juliflora* (Gando Baval) leaves at the concentration of 200 mg/ml has good *in vitro* antibacterial activity against bacterial isolates from animals, viz., *Escherichia coli, Streptococcus agalactiae* and *Staphylococcus aureus*. |
| Action : Prof. & Head, Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & A. H., JAU, Junagadh |
| 11.8.1.36 | **Clinical Studies on Dental problems in pet animals** |
| Recommendation: Dropped |
| Action : Prof. & Head, Department of Veterinary Surgery & Radiology, College of Veterinary Science & A. H., JAU, Junagadh. |
| 11.8.1.37 | **Radio-anatomy of heart size in Mongrel dogs using Vertebral heart score system** |
| The normal VHS for mongrel dogs is 8.0 to 11.1 V. The deviation from this range may indicate cardiac abnormalities. |
| Action : Prof. & Head, Department of Veterinary Surgery & Radiology, College of Veterinary Science & A. H., JAU, Junagadh. |
| 11.8.1.38 | **Histomorphometry & Histochemical observations on the ovaries of Jaffrabadi buffaloes in different season of year** |
| In Jaffrabadi buffaloes, based on biometrical and micrometrical observations, higher functional activities of ovaries are observed in winter season. |
| Action : Prof. & Head, Department of Veterinary Anatomy, College of Veterinary Science & A. H., JAU, Junagadh |
| 11.8.1.39 | **Molecular characterization of Interleukin-8 (IL-8) gene in Jaffrabadi Buffalo (*Bubalus bubalis*)** |
| It is recommended to use following primers for the study of IL-8 gene involved in mastitis resistance.  **List of Primers**   |  |  |  | | --- | --- | --- | | **Sr. No.** | **Primer Sequence 5’-3’** | **Primer length (bp)** | | Primer 1 | Forward 5’-GGGCGGAGGTTGCGTATT-3’  Reverse 5’-TAAGAGGGATCCCAGTAAGGTTT-3’ | 18  23 | | Primer 2 | Forward 5’-GACGAGCTTCAGGCAACTATCA-3’  Reverse 5’-ATATTAAATGCCATGGAGACAAA-3’ | 22  23 | | Primer 3 | Forward 5’-TGGAAGAATCCAGCAAAGTTC-3’  Reverse 5’-TGACAGAAGGCACAGGCATA-3’ | 21  20 | | Primer 4 | Forward 5’-CCAATCGATCTGGAAATCCT-3’  Reverse 5’-TGACTAAGAGGTCTTTCTGTTTGTG-3’ | 20  25 | | Primer 5 | Forward 5’-ACAAACAGAAAGACCTCTTAGTCA-3’  Reverse 5’-CAAACTCCTGATGACTCTGACA-3’ | 25  22 | |
| Action : Prof. & Head, Department of Animal Genetics & Breeding, College of Veterinary Science & A.H., JAU, Junagadh |
| 11.8.1.40 | **Molecular characterization of Toll Like Receptor 4 (TLR-4) gene in Jaffrabadi Buffalo (*Bubalus bubalis*)** |
| Allele B is more frequent than allele A for *TLR-4/ALU I* gene and use of following primers is recommended in Jaffarabadi buffaloes.   |  |  |  |  | | --- | --- | --- | --- | | **Exon(s)** | **Sr. No.** | **Primer Sequence 5’- 3’** | **Amplicon Size (bp)** | | Exon 1 | Primer-1 | Forward 5’-CACAGAGCCACTTCTGGTCA-3’  Reverse 5’- TTTTCAGAAGCAAGGCCAAG-3’ | 180 | | Exon 2 | Primer-2 | Forward 5’- ACCTGAGCTTTAACTACCT-3’  Reverse 5’-AATATTTCTGCTGAATAGGA-3’ | 280 | | Exon 3 | Primer-3 | Forward 5’-CTGGGCTCTCAAGTTTACGG-3’  Reverse 5’-AACCAGCCGGTTGATTTTTA-3’ | 410 | | Primer-4 | Forward 5’-GGCTGGTTTTGGGAGAATTT-3’  Reverse 5’-TGTGAGAACAGCAACCCTTG-3’ | 420 | | Primer-5 | Forward 5’-CAAGGGTTGCTGTTCTCACA-3’  Reverse 5’-GAGCGAGTGGAGTGGTTCAT-3’ | 478 | | Primer-6 | Forward 5’-TGCTCCCTGACATCTTCACA -3’  Reverse 5’-TCTGACAAGTGGCATTCCTG-3’ | 440 | | Primer-7 | Forward 5’-TCAGGAATGCCACTTGTCAG-3’  Reverse 5’-CAGGTCTGGGCAATCTCATA-3’ | 406 | | Primer-8 | Forward 5’-CCAGAGCCGATGGTGTATCT-3’  Reverse 5’-CACTGAATCACCGGGCTTT-3’ | 410 | | Primer-9 | Forward 5’-GGTAAACCCACGAGTCCAGA-3’  Reverse 5’-CCCCCGGGAAGTTCTATATT-3’ | 286 | |
| Action : Prof. & Head, Department of Animal Genetics & Breeding, College of Veterinary Science & A.H., JAU, Junagadh |
| 11.8.1.41 | **To study the retrieval rate and grading of oocytes from ovary of culled Jaffrabadi buffaloes** |
| Higher recovery rate and good quality oocytes can be obtained from ovaries without CL in Jaffrabadi buffalo using slicing method. |
| Action : Prof. & Head, Department of Veterinary Gynaecology & Obstetrics, College of Veterinary Science & A. H., JAU, Junagadh |
| 11.8.1.42 | **Comparative study on Efficacy of different medicaments for induction of estrus in true anestrous Jaffrabadi heifers (*Bubalus bubalis*)** |
| The true anoestrus Jaffrabadi buffalo heifers of 3 to 3.5 body condition score responded well to CIDR or ovosynch-protocol in terms of estrus induction and conception rate. |
| Action : Prof. & Head., Department of Veterinary Gynaecology & Obstetrics, College of Veterinary Science & A. H., JAU, Junagadh |
| 11.8.1.43 | **Association of milk components with Intra-mammary infection in Jaffrabadi Buffaloes** |
| The milk lactose and milk urea nitrogen are found to be decreased in Jaffrabadi buffaloes with mastitis. |
| Action : Prof. & Head., Department of Livestock Production management, College of Veterinary Science & A. H., JAU, Junagadh |
| 11.8.1.44 | **Record of marine finfishes commonly landed at Veraval fishing harbor** |
| Seventy finfish species of different genera were recorded during the period of October 2010 to May 2014 at Veraval fish landing centre. The major groups of finfish available are sharks and rays, pomfrets, crockers, groupers, threadfins, ribbonfish, clupeids, lizard fish, sea catfishes, leather jackets, bull's eye. Fishes like *Rachycentron canadum, Mene maculate, Pomadasys maculates, Lethrinus ramark, Upenus sp., Cypselury obligolepis, Remora remora, Therapon jarbua, Therapon theraps, Harpodon nehereus, Plotosus conius, Coryphaena hippurus* are available in very less proportion at Veraval fish landing center. |
| **Action**: Professor & Head, Dept. of Fisheries Resource Management, College of Fisheries Science, JAU, Veraval |
| 11.8.1.45 | **Antibacterial activity of some available seaweeds from Veraval coast** |
| Seaweeds extract of *Gracilaria edulis, Sargassum weightii* and *Hypniamus ciformis* collected from Veraval coast contains antibacterial activity against *Aeromonas hydrophila, Pseudomonas aeruginosa* and *Vibrio alginolyticus,* respectively. |
| **Action**: Professor & Head, Dept. of Aquaculture, College of Fisheries Science, JAU, Veraval |
| 11.8.1.46 | **Growth, mortality and stock assessment of Soldier catfish *Osteogeneiosus militaris* (Linnaeus, 1758) off Veraval coast** |
| The present level of fishing on the Soldier catfish, *Osteogeneiosus militaris,* confirmed that the stock is being overexploited. Estimated growth parameters for *O. militaris* were 523 mm and 0.62 for L∞ & K respectively. Estimated mortality parameters for *O. militaris* were 1.09, 3.67 and 2.58 for natural mortality, total mortality and fishing mortality respectively. |
| Action: Professor and Head, Department of Fisheries Resource Management, College of Fisheries Science, JAU, Veraval |
| 11.8.1.47 | **Length–weight relationship and stomach content analysis of Japanese threadfin bream (Pink Perch), *Nemipterus japonicus*** |
| The size and weight of Threadfin bream, *Nemipterus japonicus* available at Gujarat coast ranged from 6.5-24.1 cm and 20.5-277 g respectively with the length-weight relationship equation Log W = -2.2520 + 2.4669 Log L. The major food composition of *N. japonicus* constituted of crustaceans (54.35%), finfishes (30.24%), molluscs (7.80%), and unidentified and semi–digested materials (5.80%). |
| Action: Professor and Head, Department of Fisheries Resource Management, College of Fisheries Science, JAU, Veraval |
| 11.8.1.48 | **Study on biodiversity of shellfishes in rocky intertidal zone of Veraval coast** |
| The most abundant and year round species found at Veraval are *Patella radiate* followed by *Turbo intercostalis, Chiton granoradiatus*, *Rinoclavis sinensis* and Cerithium spp. of molluscs and *Balanus amphtrite* among the crutaceans. |
| Action: Professor and Head, Department of Fisheries Resource Management, College of Fisheries Science, JAU, Veraval |
| **Navsari Agricultural University, Navsari** | |
| 11.8.1.49 | **Eco-friendly plastination technology for preservation of biological specimens** |
| Plastinated specimens are odourless, dry and everlasting teaching aids and overcomes the existing formalin embalmed preservation method having various health hazards. |
| Action: Prof. & Head. Dept. of Vet. Anatomy, Vanbandhu Veterinary College, NAU, Navsari |
| 11.8.1.50 | **1) Studies on pharmacokinetics and pharmacodynamic relationship of Cefquinome in cow calves; 2) Studies on pharmacokinetics and pharmacodynamic relationship of Cefquinome in goats** |
| Based on pharmacokinetics and pharmacodynamics relationships of cefquinome in cattle and goat, it is recommended that a dose of 20 mg/kg repeated at 8 h interval after intravenous and 12 h after intramuscular administration is sufficient to maintain %T>MIC above 60% of dosage interval for bacteria with MIC values <0.4μg/ml. |
| Action: Prof. & Head. Dept. of Vet. Pharmacology & Toxicology, Vanbandhu Veterinary College, NAU, Navsari |
| 11.8.1.51 | **Evaluation of gene specific primer sets in the molecular detection of *Anaplasma* organism in bovine** |
| The *msp5* gene primers (forward: 5’-GTG TTC CTG GGG TAC TCC TAT GTG-3’ and reverse: 5’-AAG CAT GTG ACC GCT GAC AAA C-3’) are useful for specific detection of *Anaplasma marginale* in bovines with 576 bp amplicon using PCR. |
| Action: Prof. & Head. Dept. of Vety. Para., Vanbandhu Veterinary College, NAU, Navsari |
| 11.8.1.52 | **Ultrasonography, diagnosis and surgical management of abdominal disorders in bovines** |
| Distended intestinal loops through right flank and collapsed intestinal loops through ventro-lateral abdominal view using 3.5 to 5 MHz convex probe is suggestive of intestinal obstruction, whereas bull’s eye appearance using 6-8 MHz trans-rectal probe is confirmatory for diagnosis of intussusceptions in bovines. |
| Action: Prof. & Head. Dept. of Vet. Surgery & Radiology, Vanbandhu Veterinary College, NAU, Navsari |
| 11.8.1.53 | **Ultrasonography, diagnosis and surgical management of abdominal disorders in bovines** |
| Presence of reticular motility at 5th right inter-costal space (ICS) in advanced pregnant animal is normal but is suspected for diaphragmatic hernia in recently calved animals. Presence of reticular motility at 4th right inter-costal space in advanced pregnant and recently calved animals is confirmatory diagnosis of diaphragmatic hernia on ultrasonography in bovines. |
| Action: Prof. & Head. Dept. of Vety. Surgery & Radiology, Vanbandhu Veterinary College, NAU, Navsari |
| 11.8.1.54 | ***In vitro* evaluation of sugarcane bagasse treated with different level of urea and moisture** |
| Treatment of sugarcane bagasse at level of 3.5% urea and 40% moisture ensiled for three weeks improves nutritive values, *in vitro* digestibility of dry matter (27.7%) and organic matter (29.9%) and VFA production by 4 units as compared to untreated. |
| Action : Prof. & Head, Dept. of Animal Nutrition, Vanbandhu Veterinary College, NAU, Navsari |
| 11.8.1.55 | **Evaluation of phytogenic feed additive supplementation on growth performance, nutrient utilization, anti-oxidants and health status of Surti kids** |
| Supplementation of garlic bulb (2% DMI) to the growing Surti goat kids (5-6 months) for two months improves utilization of protein and fibre with higher retention of nitrogen (0.94 g/d) accompanied by improved feed conversion efficiency (18.29%) and oxidative status. |
| Action : Prof. & Head, Dept. of Animal Nutrition, Vanbandhu Veterinary College, NAU, Navsari |
| **Sardarkrushinagar Dantiwada Agricultural University, Sardarkrushinagar** | |
| 11.8.1.56 | **Pharmacokinetics and safety profile of marbofloxacin and its combination with ornidazole in sheep** |
| Marbofloxacin at loading dose of 2.4 mg/kg followed by maintenance dose of 2.2 mg/kg at eight hour interval intravenously in sheep maintains therapeutic concentration of marbofloxacin above 0.20 µg/ml. |
| Action : Prof. & Head, Dept. of Veterinary Phar. & Toxicology, College of Veterinary Science & A.H., S.D. Agricultural University |
| 11.8.1.57 | **Pharmacokinetics and safety profile of marbofloxacin and its combination with ornidazole in sheep** |
| Ornidazole at the dose of 23 mg/kg intravenously in sheep at six hours interval maintains therapeutic concentration of ornidazole above 0.20 µg/ml. |
| Action : Prof. & Head, Dept. of Veterinary Phar. & Toxicology, College of Veterinary Science & A.H., S.D. Agricultural University |
| 11.8.1.58 | **Evaluation of Toll like receptor agonists for their immuno-modulating potential in poultry** |
| Pre-sensitizing birds with Toll Like Receptor agonist like *Salmonella gallinarum* LPS before immunization with inactivated Newcastle Disease vaccine has potential in modulating the humoral immune response. |
| Action: Prof. & Head. Dept. of Vety. Micro., College of Veterinary Science & A.H., S.D. Agricultural University |
| 11.8.1.59 | **Study on usefulness of ultrasonography for diagnosis of D.H. in bovines** |
| Ultrasonography using 3.5-5 MHz transducer at right 4th or 5th inter-costal space is recommended for the diagnosis of diphragmatic hernia in Mehsana buffaloes with more than 90 percent of diagnostic accuracy. |
| Action : Prof. & Head., Department of Veterinary Surgery & Radiology, Dr. V.M. Jhala Clinical Complex, College of Veterinary Science & A.H., S.D. Agricultural University |
| 11.8.1.60 | **Retrospective study of reduced service period in Kankrej cattle and Mehsana buffaloes** |
| Recommendation: Dropped |
| Action : Res. Sci. & Head, LRS, SDAU, Sardarkrushinagar |
| 11.8.1.61 | Retrospective study of reduced service period in Kankrej cattle and Mehsana buffaloes |
| Intrauterine infusion of Gentamicin (40mg/ml, 40 ml for three days) is advised for the treatment of endometritis in Kankrej cattle and Mehsana buffaloes. |
| Action : Res. Sci. & Head, LRS, SDAU, Sardarkrushinagar |

**11.8.2 New Technical Programme**

**Anand Agricultural University, Anand**

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| **Sr. No.** | **Centre / Title** | **Approval / Suggestions** | **Remarks** |
| 11.8.2.1 | Livestock Research Station | | |
| Effect of climatic factors on daily milk production of dairy cows | Approved  (**Action**: Research Scientist and Head, LRS, AAU, Anand) | - |
| 11.8.2.2 | Livestock Research Station | | |
| Causes of culling on an organized dairy farm | Approved with following suggestions:   1. Change the title as “Study on herd life and causes of culling on an organized dairy farm”.   (**Action**: Research Scientist and Head, LRS, AAU, Anand) | - |
| 11.8.2.3 | Pashupalan Sansodhan Kendra, Ramna Muvada; Kapila Go Sansodhan Kendra, Minavada | | |
| Growth, optimal age and weight at puberty in Surti goats under farm feeding | Approved  (**Action**: Research Scientist and Head, PSK, Ramana Muvada; KGK, Minavada) | - |
| 11.8.2.4 | Reproductive Biology Research Unit | | |
| Study on hormonal profile and follicular dynamics in pubertal buffalo heifers to hasten puberty after feeding sprouted moth beans (*Phaseolus aconitifolius*) and sprouted moong beans (*Phaseolus moongo*) | Approved  (**Action**: Research Scientist and Head, RBRU, AAU, Anand) | - |
| 11.8.2.5 | Reproductive Biology Research Unit | | |
| Studies on restricted mating in adult Surti goats in comparison to mating throughout the year | Approved  (**Action**: Research Scientist and Head, RBRU, AAU, Anand) | - |
| 11.8.2.6 | Animal Nutrition Research Station | | |
| Study of nutritional status of dairy animals of Botad district | Approved  (**Action**: Research Scientist and Head, ANRS, AAU, Anand) | - |
| 11.8.2.7 | Animal Nutrition Research Station | | |
| Effect of supplementation of turmeric and ginger powders on growth performance and nutrient utilization in broilers | Approved with following suggestions:   1. To merge all five objectives in to one.   (**Action**: Research Scientist and Head, ANRS, AAU, Anand) | - |
| 11.8.2.8 | Animal Nutrition Research Station | | |
| Methane mitigation in cattle using legume straw based Total Mixed Ration with SSF Biomass | Approved  (**Action**: Research Scientist and Head, ANRS, AAU, Anand) | - |
| 11.8.2.9 | Animal Nutrition Research Station | | |
| *In vitro* evaluation of Fenugreek (*Trigonella foenum graecum*) for its influence on substrate degradation and methanogenesis | Approved  (**Action**: Research Scientist and Head, ANRS, AAU, Anand) | - |
| 11.8.2.10 | Animal Nutrition Research Station | | |
| Effect of supplementing Jivanti (*Leptadenia reticulate*) and bypass fat in total mixed rations on nutrient utilization and milk production of Surti goats | Approved  (**Action**: Research Scientist and Head, ANRS, AAU, Anand) | - |
| 11.8.2.11 | Animal Nutrition Research Station | | |
| To evolve area specific mineral mixture for dairy animals in Anand district | Approved  (**Action**: Research Scientist and Head, ANRS, AAU, Anand) | - |
| 11.8.2.12 | Animal Nutrition Research Station | | |
| Effect of incorporation of dried and green date palm (*Phoenix dactylifera* L*.* [Arecaceae]) leaves in total mixed ration for adult goats. | Approved  (**Action**: Research Scientist and Head, ANRS, AAU, Anand) | - |
| 11.8.2.13 | Animal Nutrition Research Station | | |
| Effect of incorporation of dried and green date palm (*Phoenix dactylifera* L. [Arecaceae]) leaves in total mixed ration for adult sheep | Approved  (**Action**: Research Scientist and Head, ANRS, AAU, Anand) | - |
| 11.8.2.14 | Animal Nutrition Research Station | | |
| Studies on the effect of feeding bypass fat and yeast (*Saccharomyces cerevisiae*) supplemented total mixed ration to adult sheep during hot summer | Approved  (**Action**: Research Scientist and Head, ANRS, AAU, Anand) | - |
| 11.8.2.15 | Animal Nutrition Research Station | | |
| Determination of optimum level of incorporation of recombinant cellulase of bacterial origin in total mixed ration for small ruminants | Approved  (**Action**: Research Scientist and Head, ANRS, AAU, Anand) | - |
| 11.8.2.16 | Poultry Complex | | |
| To study the effects of feeding different quality maize on production performance and egg quality parameters of White Leghorn birds | Differed as it is an ongoing Programme.  (**Action**: Research Scientist and Head, CPRS, AAU, Anand) | - |
| 11.8.2.17 | Dept. of Animal Biotechnology | | |
| Mining lignocellulolytic enzymes from rumen metagenome | Approved  (**Action**: Prof. and Head, Dept. of Animal Biotechnology, Veterinary College, AAU, Anand). | - |
| 11.8.2.18 | Dept. of Animal Biotechnology | | |
| Individual genome reconstruction of Ruminant Anaerobic Microbes from Metagenomic Studies | Approved  (**Action**: Prof. and Head, Dept. of Animal Biotechnology, Veterinary College, AAU, Anand) | - |
| 11.8.2.19 | Dept. of Animal Biotechnology | | |
| Detection of somatic mutations in Squamous Cell Carcinoma of Horn in Kankrej Cattle (*Bos indicus*) using Next Generation Sequencing | Approved  (**Action**: Prof. and Head, Dept. of Animal Biotechnology, Veterinary College, AAU, Anand) | - |
| 11.8.2.20 | Dept. of Animal Genetics & Breeding | | |
| Screening of Dumba sheep breed for presence of fecundity gene polymorphism by PCR-RFLP | Approved with following modifications:   1. To change the title as “Screening of Dumba sheep breed for presence of fecundity gene polymorphism by PCR-RFLP and sequencing”   (**Action**: Prof. and Head, Dept. of AGB, Veterinary College, AAU, Anand) | - |
| 11.8.2.21 | Dept. of Physiology & Biochemistry | | |
| Physiological, Biochemical and Hormonal Profiles of Surti Goats during summer and winter seasons under Intensive Production System. | Approved  (**Action**: Prof. and Head, Dept. of Physiology & Biochemistry, Veterinary College, AAU, Anand) | - |
| 11.8.2.22 | Dept. of Physiology & Biochemistry | | |
| Physiological, Biochemical and Hormonal Profiles of Indigenous sheep during summer and winter seasons under Intensive Production System | Approved  (**Action**: Prof. and Head, Dept. of Physiology & Biochemistry, Veterinary College, AAU, Anand) | - |
| 11.8.2.23 | Krishi Vigyan Kendra, Devataj | | |
| To evaluate optimum stocking density for nursery raising of *Labeorohita* Spawn under hapa culture system (Multi-location trial) in village ponds of middle Gujarat | Approved  (**Action**: Research Scientist, KVK, Devataj, AAU, Anand) | - |
| 11.8.2.24 | Dept. of Vet. Pharmacology & Toxicology | | |
| To study the effects of aqueous extract of *Phyllanthus emblica* (Amla) @ 200 and 400 mg/kg body weight orally for 28 days on aematological and serum biochemical parameters in potassium oxonate induced gout rat model. | Approved with following modifications:   1. Change the title as “To study the effects of aqueous extract of *Phyllanthus emblica* (Amla) on haematological and serum biochemical parameters in potassium oxonate induced gout rat model”. 2. To include replication of 6 animals/treatment in the methodology.   (**Action**: Prof. and Head, Dept. of Vet. Pharmacology & Toxicology, Veterinary College, AAU, Anand) | - |
| 11.8.2.25 | Dept. of Vet. Parasitology | | |
| Studies on Clinico-biochemical aspects of Ancylostomosis in dogs | Approved with following modifications:   1. Change the title as “Studies on Hemato-biochemical aspects of Ancylostomosis in dogs”.   (**Action**: Prof. and Head, Dept. of Vet. Parasitology, Veterinary College, AAU, Anand) | - |
| 11.8.2.26 | Dept. of Vet. Pathology | | |
| Toxico-pathological studies of meloxicam, ibuprofen and diclofenac sodium in broiler chicks | Approved.  (**Action:** Prof. and Head, Dept. of Vet. Pathology, Veterinary College, AAU, Anand) | - |
| 11.8.2.27 | Dept. of Vet. Pathology | | |
| Toxicopathological studies of acetyl salicylic acid, nimesulide and diclofenac sodium in broiler chicks | Approved  (**Action**: Prof. and Head, Dept. of Vet. Pathology, Veterinary College, AAU, Anand) | - |
| 11.8.2.28 | Dept. of Vet. Microbiology | | |
| Status of anti-rabies antibodies in dogs | Approved with following modifications:   1. To exclude treatment C from the experiment.   (**A**c**tion**: Prof. and Head, Dept. of Vet. Microbiology, Veterinary College, AAU, Anand) | - |
| 11.8.2.29 | Dept. of Vet. Microbiology | | |
| Multi-locus sequence typing of *Pasteurella multocida* isolates of buffalo origin from Gujarat state | Approved  (**Action**: Prof. and Head, Dept. of Vet. Microbiology, Veterinary College, AAU, Anand) | - |
| 11.8.2.30 | Dept. of Vet. Microbiology | | |
| Outer membrane protein profile of *Pasteurella multocida* isolates of buffalo origin from Gujarat state | Approved  (**Action**: Prof. and Head, Dept. of Vet. Microbiology, Veterinary College, AAU, Anand) | - |
| 11.8.2.31 | Dept. of Gynaecology and Obstetrics | | |
| Effect of inclusion of antioxidants – cysteine and taurine – in semen extenders on refrigeration (5°C) and cryopreservation (-196°C) of buffalo semen | Approved  (**Action**: Prof. and Head, Dept. of Gynaecology and Obstetrics, Veterinary College, AAU, Anand) | - |
| 11.8.2.32 | Dept. of Gynaecology and Obstetrics | | |
| Validation of different estrus induction and synchronization protocols in anoestrus cows and buffaloes | Approved  (**Action**: Prof. and Head, Dept. of Gynaecology and Obstetrics, Veterinary College, AAU, Anand) | - |
| 11.8.2.33 | Dept. of Gynaecology and Obstetrics | | |
| Effect of peripartum nutritional (multi-minerals and bypass fat) supplementation on uterine involution and postpartum fertility in crossbred cows | Approved  (**Action**: Prof. and Head, Dept. of Gynaecology and Obstetrics, Veterinary College, AAU, Anand) | - |
| 11.8.2.34 | Dept. of Gynaecology and Obstetrics | | |
| Clinical efficacies of different hormonal approaches in repeat breeding dairy animals | Approved  (**Action:** Prof. and Head, Dept. of Gynaecology and Obstetrics, Veterinary College, AAU, Anand) | - |
| 11.8.2.35 | Dept. of Gynaecology and Obstetrics | | |
| Molecular approaches to identify specific gene markers for infertility/ reproductive disorders in dairy animals | Approved  (**Action**: Prof. and Head, Dept. of Gynaecology and Obstetrics, Veterinary College, AAU, Anand) | - |
| 11.8.2.36 | Dept. of Gynaecology and Obstetrics | | |
| Evaluation of role of hypothalamo-hypophyseal-ovarian axis in the onset of puberty in Surti/Banni buffalo and crossbred cattle | Approved  (**Action**: Prof. and Head, Dept. of Gynaecology and Obstetrics, Veterinary College, AAU, Anand) | - |
| 11.8.2.37 | Dept. of Gynaecology and Obstetrics | | |
| Seasonal influence on efficacy of estrus induction & synchronization protocols in anoestrus cows and buffaloes | Differed as it is an ongoing Programme  (**Action**: Prof. and Head, Dept. of Gynaecology and Obstetrics, Veterinary College, AAU, Anand) | - |
| 11.8.2.38 | Dept. of Vet. Public Health & Epidemiology | | |
| Isolation and characterization of Campylobacter spp. From buffalo meat | Approved  (**Action**: Prof. and Head, Dept. of VPH, Veterinary College, AAU, Anand) | - |
| 11.8.2.39 | Dept. of Vet. Public Health & Epidemiology | | |
| Isolation and characterization of Campylobacter spp. from pork and slaughter house environment | Approved  (**Action**: Prof. and Head, Dept. of VPH, Veterinary College, AAU, Anand) | - |
| 11.8.2.40 | Dept. of Vet. Public Health & Epidemiology | | |
| Isolation and characterization of Campylobacter spp. from faecal samples of cattle | Approved  (**Action**: Prof. and Head, Dept. of VPH, Veterinary College, AAU, Anand | - |
| 11.8.2.41 | Dept. of Vet. Public Health & Epidemiology | | |
| Detection and characterization of methicillin resistance *Staphylococcus aureus* from animal, man and environment | Approved  (**Action**: Prof. and Head, Dept. of VPH, Veterinary College, AAU, Anand) | - |

**Junagadh Agricultural University**

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| **Sr. No.** | **Title/ Centre** | **Suggestions** | **Remarks** |
| 11.8.2.42 | Department of Veterinary Parasitology, College of Veterinary Science & A. H. JAU, Junagadh | | |
| Diagnosis of *Babesia bigemina* and *Trypanosoma evansi* in bovines in and around Junagadh: Traditional vs molecular detection and assessment of risk factors | Approved  (**Action**: Prof. and Head, Department of Veterinary Parasitology, College of Veterinary Science & A. H. JAU, Junagadh) | - |
| 11.8.2.43 | Department of Livestock Products Technology, College of Veterinary Science & A. H., JAU, Junagadh | | |
| Development and standardization of value added milk product by using buffalo milk and *Cucurbita Pepo* pulp | Differed and suggested to conduct as a filler trial.  (**Action**: Prof. and Head, Department of Livestock Products Technology, College of Veterinary Science & A. H., JAU, Junagadh) | Suggested to present the project in Dairy Science & FPT group for expert insight |
| 11.8.2.44 | Department of Veterinary Anatomy, College of Veterinary Science & A. H., JAU, Junagadh | | |
| Study on Postnatal Development of Adrenal Gland in Gohilwari Goat (*Capra hircus*) | Approved with following modifications:   1. Change spelling of “Gohilwari” to “Gohilwadi” in the title.   (**Action**: Prof. and Head, Department of Veterinary Anatomy, College of Veterinary Science & A. H., JAU, Junagadh) | - |
| 11.8.2.45 | Department of Veterinary Surgery and Radiology, College of Veterinary Science & A. H., JAU, Junagadh | | |
| Clinical studies on foot affections in unsound working horses | Approved with following modifications:   1. To carryout analysis using appropriate statistical tools. 2. To exclude observations related to “Correlation of foot affection with age and sex”.   (**Action**: Prof. and Head, Department of Veterinary Surgery and Radiology, College of Veterinary Science & A. H., JAU, Junagadh) | - |
| 11.8.2.46 | Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & A. H., JAU, Junagadh | | |
| Preliminary evaluation of antibacterial activity of extracts of *Cassia auriculata*, *Prosopis juliflora* and [*Annona squamosa*](http://en.wikipedia.org/wiki/Annona_squamosa) | Approved.  (**Action**: Prof. and Head, Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & A. H., JAU, Junagadh) | - |
| 11.8.2.47 | Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & A. H., JAU, Junagadh | | |
| Survey on use of indigenous plants for medicinal use by local people during ailments of animals in Junagadh region | Approved with following modifications:   1. Change the title as “Survey on indigenous plants use for medicinal purpose in animals in Junagadh region”.   (**Action**: Prof. and Head, Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & A. H., JAU, Junagadh) | - |
| 11.8.2.48 | College of Fisheries Science, JAU, Veraval | | |
| Identification and documentation of marine fish biodiversity using mitochondrial DNA bar coding | Approved.  (**Action**: Professor & Head, Dept. of Aquaculture, College of Fisheries Science, JAU, Veraval) | - |
| 11.8.2.49 | College of Fisheries Science, JAU, Veraval | | |
| Surveillance of shrimp diseases in shrimp farms of Gujarat | Approved with following modifications:   1. Observations to be recorded should include conventional methods like clinical and microbiological parameters.   (**Action**: Professor & Head, Dept. of Aquaculture, College of Fisheries Science, JAU, Veraval) | - |
| 11.8.2.50 | College of Fisheries Science, JAU, Veraval | | |
| MSY Estimation of Fisheries Resources of Gujarat Coast with Surplus Production Model | Approved with following modifications:   1. In observations to be recorded: “type of fish species” to be replaced with “Group of fishes”.   (**Action**: Prof.& Head, Dept. of Fisheries Resources Management, Coll. of Fisheries Sci., JAU, Veraval) | - |
| 11.8.2.51 | Department of Harvest and Post-Harvest Technology, College of Fisheries, JAU, Veraval | | |
| Effects of hurdle technology on biochemical, microbiological, and sensory quality of frozen cut crabs, *Portunus pelagicus* | Approved with following modifications:   1. In observations to be recorded to add Salmonella in the microbiological analysis.   (**Action:** Prof. and Head, Department of Harvest and Post-Harvest Technology, College of Fisheries, JAU, Veraval) | - |
| 11.8.2.52 | Fisheries Research Station, Okha | | |
| Effect of stocking density on growth and survival of juvenile Pacific white shrimp, *Litopenaeus vannamei* (Boone, 1931) | Approved with following modifications:   1. The change stocking density of *L. vannamei* in the treatment as 20, 25, 35 and 45 pcs/m2 instead of 5, 10, 15 and 20 pcs/m2.   (**Action**: Research Officer, Fisheries Research Station, JAU, Okha) | - |
| 11.8.2.53 | Fisheries Research Station, Okha | | |
| Effect of Aloevera treatment on quality parameters of Indian mackerel (*Rastrelliger kanagurta*, Cuvier-1816) during chill storage | Approved with following modifications:   1. To consult microbiologist for observations on microbiological analysis.   (**Action**: Research Officer, Fisheries Research Station, JAU, Okha) | - |
| 11.8.2.54 | Fisheries Research Station, Sikka | | |
| Effect of thermal jerk to stimulate *Saccostrea cucullata* for breeding. | Approved with following modifications:   1. To exclude objective no. 2 and 3.   (**Action**: Research Officer, Fisheries Research Station, JAU, Sikka) | - |

**Navsari Agricultural University, Navsari**

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| **Sr. No.** | **Title/ Centre** | **Suggestions** | **Remarks** |
| 11.8.2.55 | Livestock Research Station, NAU, Navsari | | |
| Effects of bypass fat supplementation on production performance and economics of lactating Surti buffaloes | Approved  (**Action**: Research scientist and Head, LRS, NAU, Navsari) | - |
| 11.8.2.56 | SMS, KVK, NAU, Vyara | | |
| Effect of weather on physiological profile of heifers | Approved with following modifications:   1. To include meteorological data on animal sheds in the experimental details.   (**Action**: Research scientist, SMS, KVK, NAU, Vyara) | - |
| 11.8.2.57 | Department of Instructional Livestock Farm Complex | | |
| Cytogenic study of HF cross bred cattle | Approved with following modifications:   1. Change the title as “Cytogenetic studies of HF crossbred cattle”. 2. Treatment: Blood collection should be carried out at the earliest stage instead of periodical collections.   (**Action:** Prof. and Head, Department of Instructional Livestock Farm Complex, NAU, Navsari) | - |
| 11.8.2.58 | Department of Veterinary Physiology and Biochemistry | | |
| Study of GHG emissions from dairy animals | Differed and suggested to conduct as a filler trial.  (**Action**: Prof. and Head, Department of Veterinary Physiology and Biochemistry, NAU, Navsari) | - |
| 11.8.2.59 | Department of Livestock Products Technology | | |
| Studies on development of burfi utilizing watermelon (*Citrullus lanatus*) rind | Approved  (**Action**: Prof. and Head, Department of Livestock Products Technology, NAU, Navsari) | suggested to present it in Dairy Science & FPT group for better insight |
| 11.8.2.60 | Department of Animal Nutrition | | |
| Effect of fenugreek (*Trigonella foenum-graecum* L.) supplementation on milk yield and quality in lactating Surti buffaloes | Approved  (**Action**: Prof. and Head, Department of Animal Nutrition, NAU, Navsari) | - |
| 11.8.2.61 | Department of Animal Nutrition | | |
| Economics of growth performance due to dietary inclusion of tanniferous leaves in kids infested with gastrointestinal helminths | Approved with following suggestions:   1. To specify the name of tree in the title. 2. Observations should include fecal egg count.   (**Action**: Prof. and Head, Department ofAnimal Nutrition, NAU, Navsari) | - |
| 11.8.2.62 | Department of Animal Science, N M C A, NAU, Navsari | | |
| Evaluation of yeast (*Saccharomyces cerevisiae*) supplementation on selected level of roughage to concentrate ratio in Surti goat kids | Approved with following suggestions:   1. Change the title as “To study the effect of yeast (*Saccharomyces cerevisiae*) on growth, feed conversion efficiency and cost of feeding in Surti kids”. 2. Treatment: To workout ratio of concentrate to roughage keeping in view of national standards. 3. Treatment should include minimum of ‘8’ animals instead of ‘6’.   (**Action**: Prof. and Head, Department of Animal Science, N M C A, NAU, Navsari) | - |
| 11.8.2.63 | Department of Pharmacology and Toxicology, College of Veterinary Sci. & A.H., NAU, Navsari | | |
| Evaluation of *in vitro* antimicrobial (EP021 to EP030) and anti-inflammatory (EP011 to EP020) activity of medicinal plants | Differed as it is an ongoing Programme.  (**Action**: Prof. and Head, Department of Pharmacology and Toxicology, College of Veterinary Sci. & A.H., NAU, Navsari) | - |
| 11.8.2.64 | Department of Pharmacology and Toxicology, College of Veterinary Sci. & A.H., NAU, Navsari | | |
| Evaluation of in *vitro* antimicrobial properties of endophytes isolated from medicinal plants | Approved with following suggestions:   1. Experiment should include two plant species namely *Terminalia bellirica* and *Bixaorellana*.   (**Action**: Prof. and Head, Dept. of Pharmacology and Toxicology, College of Veterinary Sci. & A.H., NAU, Navsari) | - |
| 11.8.2.65 | Department of Veterinary Surgery & Radiology, College of Veterinary Sci. & A.H., NAU, Navsari | | |
| Cataract management by extra capsular cataract extraction technique in dogs | Approved with following suggestions:   1. To exclude objective no.2.   (**Action**: Prof. and Head, Dept. of Vet Surgery & Radiology, College of Veterinary Sci. & A.H., NAU, Navsari) | - |
| 11.8.2.66 | Department of Veterinary Medicine, College of Veterinary Sci. & A.H., NAU, Navsari | | |
| Diagnosis and management of ascites in canines | Approved with following suggestions:   1. Objective No. 2 to be replaced with “To generate clinical data on diagnosis and treatment of ascites in canines”.   (**Action**: Prof. and Head, Department of Veterinary Medicine, College of Veterinary Sci. & A.H., NAU, Navsari) | - |
| 11.8.2.67 | Department of Veterinary Gynaecology and Obstetrics, College of Veterinary Sci. & A.H., NAU, Navsari | | |
| Evaluation of frozen semen of buffalo, crossbred and indigenous cow bull by Hypo Osmotic Swelling Test and supra-vital staining technique | Approved  (**Action**: Prof. and Head, Department of Veterinary Gynaecology and Obstetrics, College of Veterinary Sci. & A.H., NAU, Navsari) | - |
| 11.8.2.68 | Department of Veterinary Public Health and Epidemiology,College of Veterinary Sci. & A.H., NAU, Navsari | | |
| Detection of Classical Enterotoxigenic coagulase positive *Staphylococcus aureus* in Raw milk, Dairy food products and Handlers’ hand swabs | Approved  (**Action**: Prof. and Head, Department of Veterinary Public Health and Epidemiology, College of Veterinary Sci. & A.H., NAU, Navsari) | - |
| 11.8.2.69 | Department of Veterinary Public Health and Epidemiology,College of Veterinary Sci. & A.H., NAU, Navsari | | |
| Sero-molecular epidemiological study of Brucellosis in Navsari and Jalalpore Taluka of Navsari district | Approved with following suggestions:   1. Change the title as “Sero-molecular epidemiological study of Brucellosis in animals in Navsari and Jalalpore Taluka of Navsari district”.   (**Action**: Prof. and Head, Department of Veterinary Public Health and Epidemiology,College of Veterinary Sci. & A.H., NAU, Navsari) | - |

**Sardarkrushinagar Dantiwada Agricultural University, Sardarkrushinagar**

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| **Sr. No.** | **Title/ Centre** | **Suggestions** | **Remarks** |
| 11.8.2.70 | Livestock Research Station | | |
| Effect of feeding guar meal and Isabgul lali during transition period on service period in Kankrej cattle. | Approved with following suggestions:   1. Treatment-3 should include Banas Dan + Isabgul lali 2.5 % + Guar meal 2.5%. 2. Observations to be recorded should include: Weight of dam at fortnight intervals up to 3 months post-partum.   (**Action:** Research Scientist and Head, LRS, College of Veterinary Science & A.H., SDAU, **Sardarkrushinagar**) | - |
| 11.8.2.71 | Livestock Research Station | | |
| Effect of feeding Guar meal and Isabgul lali during transition period on service period in Mehsana buffalo | Approved with following suggestions:   1. Treatment-3 should include Banas Dan + Isabgul lali 2.5 % + Guar meal 2.5%. 2. Observations to be recorded should include: Weight of dam at fortnight intervals up to 3 months post-partum.   (**Action**: Research Scientist and Head, LRS, College of Veterinary Science & A.H., SDAU, Sardarkrushinagar) | - |
| 11.8.2.72 | Livestock Research Station | | |
| Effect of feeding dried Moringa (SARAGAVO) leaves on body weight gain in Mehsana goat kid (3-6 months) | Approved with following suggestions:   1. Change the title as “Effect of feeding dried *Moringa olifera* (SARAGAVO) leaves on bodyweight gain in Mehsana goat kids”.   (**Action**: Res. Sci. & Head, LRS, Vet. College, SDAU, Sardarkrushinagar) | - |
| 11.8.2.73 | Livestock Research Station | | |
| Effect of feeding dried Moringa (SARAGAVO) leaves on body weight gain in Patanwadi sheep lamb (3-6 months) | Approved with following suggestions:   1. Change the title as “Effect of feeding dried *Moringa olifera* (SARAGAVO) leaves on body weight gain in Patanwadi weaner lambs”.   (**Action**: Research Scientist and Head, LRS, College of Veterinary Science & A.H., SDAU, Sardarkrushinagar) | - |
| 11.8.2.74 | Livestock Research Station | | |
| Body weight dynamics in relation to milk production during lactation in Mehsana buffaloes | Approved.  (**Action**: Research Scientist and Head, LRS, College of Veterinary Science & A.H., SDAU, Sardarkrushinagar) | - |
| 11.8.2.75 | Department of Vet. Physiology & Biochemistry | | |
| Micro-mineral profile in Banni buffaloes (*Bubalus bubalis*) at different physiological stages | Approved.  (**Action**: Prof. and Head, Department of Vet. Physiology & Biochemistry, College of Veterinary Science & A.H., SDAU, Sardarkrushinagar) | - |
| 11.8.2.76 | Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & A.H., SDAU,  Sardarkrushinagar | | |
| Effect of tolfenamic acid on pharmacokinetics of ceftizoxime in sheep | Approved.  (**Action**: Prof. and Head, Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & A.H., SDAU, Sardarkrushinagar) | - |
| 11.8.2.77 | Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & A.H.,  SDAU, Sardarkrushinagar | | |
| Pharmacokinetics of ceftizoxime in goats following single dose intravenous and intramuscular administration | Approved.  (**Action**: Prof. and Head, Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & A.H., SDAU, Sardarkrushinagar) | - |
| 11.8.2.78 | Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & A.H.,  SDAU, Sardarkrushinagar | | |
| Monitoring of toxic metals in milk of dairy animals in Northern Gujarat | Approved  (**Action**: Prof. and Head, Department of Veterinary Pharmacology & Toxicology, College of Veterinary Science & A.H., SDAU, Sardarkrushinagar) | - |
| 11.8.2.79 | Department of VPH & Epidemiology, College of Veterinary Science & A.H., SDAU, Sardarkrushinagar | | |
| Checking of sanitary quality of community drinking water in S. D. A. U. Campus, Sardarkrushinagar | Approved with suggestion to modify the title as “Quality assessment of drinking water in SDAU, Campus, Sardarkrushinagar”.  (**Action**: Prof. and Head, Department of VPH & Epidemiology, College of Veterinary Science & A.H., SDAU, Sardarkrushinagar) | - |
| 11.8.2.80 | Department of Veterinary Parasitology, College of Veterinary Science & A.H, SDAU, Sardarkrushinagar | | |
| Study on status of acaricide resistance and development of alternate strategy to control ticks in northern Gujarat | Approved.  (**Action**: Prof. and Head, Department of Veterinary Parasitology, College of Veterinary Science & A.H, S.D.A.U., Sardarkrushinagar) | - |
| 11.8.2.81 | Dr. V. M. Jhala Clinical Complex (TVCC),College of Veterinary Science & A.H., SDAU, Deesa | | |
| Clinical and blood profile studies on Mehsana buffaloes affected with dystocia. | Approved  (**Action**: Professor, TVCC, College of Veterinary Science & A.H., SDAU, Deesa) | - |

**Kamdhenu University, Gandhinagar**

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| **Sr. No.** | **Title/ Centre** | **Suggestions** | **Remarks** |
| 11.8.2.82 | Kamdhenu University, Gandhinagar | | |
| Assessment of optimum thermal humidity index for dairy cattle | Approved with following suggestions:   1. Observations should include wind velocity and rectal temperature.   (**Action**: Asso. Dir. of Research, Kamdhenu University) | - |
| 11.8.2.83 | Polytechnic in Animal Husbandry, Himmatnagar | | |
| Epidemiological surveillance of important disease of cattle and buffaloes in milk shed areas of Sabarkantha district | Approved with following suggestions:   1. Title to be modified as “Disease surveillance of cattle and buffaloes in milk shed of Sabarkantha district”. 2. Observation on “losses due to such diseases” to be excluded.   (**Action**: Principal, Polytechnic College, Himmatnagar, Kamdhenu University) | - |
| 11.8.2.84 | Polytechnic in Animal Husbandry, Himmatnagar | | |
| Study of animal husbandry practices of dairy animals in relation to women empowerment in Sabarkantha district | Approved with following suggestions:   1. Title to be modified as “Study of animal husbandry practices adopted by women dairy farmers in Sabarkantha district”. 2. Objective-2 to be modified as “To disseminate scientific knowledge on animal husbandry practices (feeding, housing, breeding and vaccination) to the women concerned. 3. Objective-3 to be deleted.   (**Action**: Principal, Polytechnic College, Himmatnagar, Kamdhenu University) | - |
| 11.8.2.85 | Faculty of Fisheries, Kamdhenu University, Gandhinagar | | |
| Effect of earthworms as feed component on survival and growth rate of *P. monodon* | Approved with following suggestions:   1. Title to be modified as “Effect of earthworms as feed component on survival and growth rate of Tiger shrimp *P. monodon*”*.* 2. Methodology: Feed should be prepared as per Pearson’s formulation. 3. Replication should be ‘5’ instead of ‘4’. 4. Earthworm species to be specified.   (**Action**: Res. Sci., Faculty of Fisheries, Kamdhenu University, Gandhinagar) | - |