

<http://www.cswri.res.in/upload/Annual%20Report%202016-17.pdf>

#### Details of On-going Research Project

1. Genetic Improvement and Evaluation of Prolific Avishaan Sheep
2. Identification of Genetic and Non-Genetic Factors Responsible for Lustrous wool Trait in Magra Sheep
3. Genetic Evaluation and Propagation of Sheep for Resistance to Haemonchus Contortus
4. Nutritional Assessment of Multiple Foetus Bearing Avishaan Ewes for Complete Production Cycle
5. Nutritional Approaches for improving quality and quantity production
6. Maximizing nutrient output through bio-fertilization of forages for augmenting sheep production
7. Physiological interventions for improving sheep fertility and fecundity
8. Adaptation and mitigation of stress in sheep
9. Value addition of Sheep Produce for developing Diversified Product
10. Textile engineering interventions for effective use of coarse wool and development of eco-friendly woollen products
11. Assessment of changing epidemiology and management of economically important sheep, goat and rabbit diseases
12. Improvement in Productivity of Sheep and Transferable technology and Their Impact Analysis
13. Genetic Improvement of Chokla sheep for carpet wool production .
14. Genetic Improvement of synthetic sheep for fine wool production
15. Genetic Improvement of Bharat Merino Sheep Through Selective Breeding.
16. Performance Evaluation of Avikalin sheep in sub temperate region of India
17. Performance appraisal of Dumba (fat tail/ rump) sheep

## Runing Institute Research Project (2017-20)

S.No.	Details of On-going Research Project	Name of the PI & CoPI
1.	Genetic improvement and evaluation of prolific Avishaan sheep	1. Dr R.C Sharma, PI 2. Dr G.R. Gowane 3. Dr Rajiv Kumar 4. Dr Arun Kumar 5. Dr O.P. Koli
2.	Identification of genetic and non-genetic factors responsible for lustrous wool trait in Magra sheep	1. Dr Rajiv Kumar, PI 2. Mr Amar Singh Meena 3. Dr Ajay Kumar 4. Mr Seiko Jose 5. Dr Ashish Chopra
3.	Performance appraisal of Dumba (Fat-tail/rump) sheep	1. Dr Davender Kumar, PI 2. Dr S.K. Sankhyan 3. Dr Arpita Mohapatra 4. Dr SMK Naqvi
4.	Genetic evaluation and propagation of sheep for resistance to <i>Haemonchus contortus</i>	1. Dr S.S. Misra, PI 2. Dr CP Swarnkar 3. Dr GR Gowane 4. Dr Rajiv Kumar
5.	Nutritional assessment of multiple foetus bearing Avishaan ewes for complete production cycle	1. Dr S.K. Sankhyan, PI 2. Dr A. Sahoo 3. Dr R.S. Bhatt 4. Dr A.K. Shinde 5. Dr Krishnappa Balanganur 6. Dr P.Thirimurgan
6.	Nutritional approaches for improving quality and quantity meat production	1. Dr R.S. Bhatt, PI 2. Dr A. Sahoo 3. Dr S.K. Sankhyan 4. Dr Y.P. Gadekar 5. Dr P. Thirumurgan
7.	Maximizing nutrient output through bio-fortification of forages for augmenting sheep production	1. Dr S.C. Sharma, PI 2. Dr R.L. Meena 3. Dr P. Thirumurgan 4. Dr A. Sahoo 5. Mr. Ghous Ali 6. Dr M.L. Soni 7. Dr A.K. Patel,
8.	Physiological interventions for improving sheep fertility and fecundity	1. Dr Davendra Kumar, PI 2. Dr SMK Naqvi 3. Dr V.K. Saxena 4. Dr Kalyan De 5. Dr R.K. Paul 6. Dr K rishnappa, B 7. Dr S.V. Bahire 8. Dr Arpita Mohapatra 9. Dr Vijay Kumar

9.	Adaption and mitigation of stress in sheep	<ol style="list-style-type: none"> <li>1. Dr Kalyan De, PI</li> <li>2. Dr Vijay Kumar</li> <li>3. Dr Arpita Mohapatra</li> <li>4. Dr S.M.K. Naqvi</li> <li>5. Dr Krishnappa B</li> <li>6. Dr Vijay Kumar Sexena</li> </ol>
10.	Development and improvement of technology for value addition in sheep products	<ol style="list-style-type: none"> <li>1. Dr Y.P. Gadekar, PI</li> <li>2. Dr A.K. Shinde</li> <li>3. Dr R.S. Bhatt</li> <li>4. Dr Gauri Jairath</li> </ol>
11.	Textile engineering interventions for effective use of coarse wool and development of eco-friendly woollen products	<ol style="list-style-type: none"> <li>1. Dr N. Shanmugam, PI</li> <li>2. Dr Ajay Kumar</li> <li>3. Er Sekhar Das</li> <li>4. Mr Seiko Jose</li> <li>5. Dr G.Basu, NIRJAFT</li> </ol>
12.	Assessment of changing epidemiology and management of economically important sheep, goat and rabbit diseases	<ol style="list-style-type: none"> <li>1. Dr G.G. Sonawane, PI</li> <li>2. Dr F.A. Khan</li> <li>3. Dr C.P. Swarnkar</li> <li>4. Dr D.K. Sharma</li> <li>5. Dr A. Sahoo</li> <li>6. Dr Jyoti Kumar</li> <li>7. Dr Chandan Prakash</li> </ol>
13.	Improvement in productivity of sheep and transferable technology and their impact analysis	<ol style="list-style-type: none"> <li>1. Dr Raj Kumar, PI</li> <li>2. Dr SMK Naqvi</li> <li>3. Dr Arun Kumar Tomar</li> <li>4. Dr A. Sahoo</li> <li>5. Dr N. Shanguman</li> <li>6. Dr Ajay Kumar</li> <li>7. Dr S.C. Sharma</li> <li>8. Dr Davender Kumar</li> <li>9. Dr Seiko Jose</li> <li>10. Dr G.R. Gowane</li> <li>11. Dr Dushyant Kumar</li> <li>12. Dr Bahire Sanghratana</li> <li>13. Dr R.L. Meena</li> <li>14. Dr L.R. Gujar</li> <li>15. Mr B.S. Sahu</li> <li>16. Mr Ratan Lal</li> <li>17. Mr D.K. Yadav</li> <li>18. Mr R.K. Meena</li> <li>19. Mr M.C. Meena</li> </ol>
14.	Genetic Improvement of Chokla sheep for carpet wool production	<ol style="list-style-type: none"> <li>1. Dr Ashish Chopra, PI</li> <li>2. Dr A.K. Patel</li> <li>3. Dr Nirmala Saini</li> <li>4. Dr P.R. Sharma</li> <li>5. Mr Ashok Kumar</li> <li>6. Mr R.K. Singh</li> </ol>
15.	Genetic Improvement of synthetic sheep for fine wool production	<ol style="list-style-type: none"> <li>1. Dr O.H. Chaturvedi, PI</li> <li>2. Dr S.R. Sharma</li> <li>3. Dr Ravindra</li> </ol>

16.	Genetic improvement of Bharat Merino sheep through selective breeding.	<ol style="list-style-type: none"> <li>1. Dr P.K. Mallick, PI</li> <li>2. Dr A.S. Rajendiran</li> <li>3. Dr G. Nagarajan</li> <li>4. Dr S.M.K. Tirumaran</li> <li>5. Dr S. Rajapandi</li> <li>6. Mr R.G. Murali</li> </ol>
17.	Performance evaluation of Avikalin sheep in sub temperate region of India	<ol style="list-style-type: none"> <li>1. Dr S.M.K. Tirumaran, PI</li> <li>2. Dr A.S. Rajendiran</li> <li>3. Dr G. Nagarajan</li> <li>4. Dr P.K. Mallick</li> <li>5. Dr S. Rajapandi</li> <li>6. Mr G. Murali</li> </ol>

### Externally Funded Project (2017-20)

S. No.	Details of On-going Research Project	Name of the PI & Co-PI
1.	ICAR Mega Sheep Seed Project - Genetic improvement of Malpura sheep for mutton production in farm and field	<ol style="list-style-type: none"> <li>1. Dr GR Gowane PI</li> <li>2. Dr Arun Kumar</li> <li>3. Dr Rajkumar Chahal</li> <li>4. Dr Kalyan De</li> <li>5. Mr RR Meena</li> </ol>
2.	ICAR Network project on sheep improvement-Improvement of Marwari sheep for carpet wool production through selection	<ol style="list-style-type: none"> <li>1. Dr HK Narula PI</li> <li>2. Dr Ashish Chopra</li> <li>3. Dr PR Sharma</li> <li>4. Mr Vimal Mehrotra</li> </ol>
3.	ICAR Network project on sheep improvement-Evaluation and genetic improvement of Magra sheep in field	<ol style="list-style-type: none"> <li>1. Dr AK Patel PI</li> <li>2. Dr HK Narula</li> <li>3. Dr Ashish Chopra</li> <li>4. Dr Nirmala Saini</li> <li>5. Dr PR Sharma</li> </ol>
4.	ICAR AICRP project on goat improvement - Genetic improvement of Sirohi goats for meat and milk production	<ol style="list-style-type: none"> <li>1. Dr SS Misra PI</li> <li>2. Dr Arun Kumar</li> <li>3. Dr GR Gowane</li> </ol>
5.	Network / outreach project on estimation of methane emission under different feeding systems and development of mitigation strategies	<ol style="list-style-type: none"> <li>1. RS Bhatt PI</li> <li>2. A Sahoo</li> </ol>
6.	ICAR - Network project= Veterinary type culture - Rumen microbes	<ol style="list-style-type: none"> <li>1. Dr A Sahoo PI</li> <li>2. Dr RS Bhatt</li> </ol>
7.	ICAR -NICRA - Adaptation strategies in sheep to thermal stress through nutritional and environmental manipulations	<ol style="list-style-type: none"> <li>1. Dr A Sahoo PI</li> <li>2. Dr SMK Naqvi</li> <li>3. Dr Kalyan De</li> <li>4. Dr P. Thirumurugan</li> <li>5. Dr RK Paul</li> </ol>

8.	AICRP on nutritional and physiological approaches for enhancing reproductive performance in animals	1. Dr SK Sankhyan PI 2. Dr Krishnappa B 3. Dr Rajiv Kumar
9.	All India Network programme on gastro-intestinal parasitism	1. Dr CP Swarnkar PI 2. Dr FA Khan
10.	ICAR Network project - Network programme on veterinary type culture	Dr GG Sonawane PI
11.	ICAR Network project - All India Network programme on neonatal mortality in farm animals	1. Dr CP Swarnkar PI 2. Dr GG Sonawane 3. Dr Kalyan de
12.	DBT- Value addition of meat and meat products with conjugated linoleic acids isomers through alteration of ruminal bio-hydrogenation process using plant bioactive compounds	1. Dr RS Bhatt PI 2. Dr YP Gadekar 3. Dr VK Saxena 4. Dr A Sahoo
13.	DBT- Functional assays of the bone morphogenetic protein receptor-1B associated with high prolificacy in sheep	1. Dr Vijay Kumar PI 2. Dr Rajiv Kumar 3. Dr Davendra Kumar 4. Dr S.M.K. Naqvi
14.	DST- Development of rapid diagnostics for early detection of <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> in sub clinical and clinically infected sheep and goats at farm level	Dr GG Sonawane PI
15.	ICAR Farmer First- Participatory agricultural development or livelihood security and economic empowerment of farmers In semi-arid region of Rajasthan	1. Dr Raj Kumar PI 2. Dr LR Gurjar 3. Dr Kalyan De 4. Dr Ami Lal Babel

### Project Coordination Unit (2017-20)

1.	Project Coordination Unit Network Project on Sheep Improvement	1. Dr Arun Kumar 2. Dr GR Gowane
2.	Project Coordination Unit Mega Sheep Seed Project	1. Dr Arun Kumar 2. Dr SS Misra

