

Brief Bio-data of Dr. Tapas Kumar Dutta Principal Scientist (Animal Nutrition)

1	Name in full	DR. TAPAS KUMAR DUTTA
2	Date of Birth	13.12.1963
3	Citizenship	Indian Citizen by Birth
4	Academic Qualifications	B.V.Sc.&A.H. (BCKV), M.Sc. (Animal Nutrition) (NDRI), Ph.D. (Animal Nutrition) (NDRI)
5	Date of joining in ICAR as Scientist	03.06.1993
6	Designation of the candidate at present	Principal Scientist (Animal Nutrition)
7	Name of the Institution/ Organization where employed	Central Institute for Research Goats (ICAR), Makhdoom, Farah, Mathura (UP-281 122)
8	Significant contributions related to the relevant field of specialization (Technologies, Products, Varieties developed)	
	a. Inter- Institutional Technologies developed	<ul style="list-style-type: none"> • Milk Replacer for pre-weaning kids developed • Complete feed pellet developed for chevon (goat meat) production • Starter ration for early weaned kids developed • Complete pelleted feed was developed for lactating goat • Low cost Feed Pelleting Machine for small scale commercial goat farmers developed
	b. Intra- Institutional Technologies developed	<ul style="list-style-type: none"> • Complete Feed Block Making Machine for goat rearing developed • Cultivation of fodder legumes under agro-forestry system in rain-fed condition • Strategic supplementary feeding schedule for goats under field condition developed
9	Worked with animal species (with breeds)	Goat (Barbari, Jamunapari, Marwari, local non-descript) sheep (Muzzafarnagari), cattle (Karan Fries, Karan Swiss cross)
10	Project handled as Principal Investigator (PI) or Co-PI	
	<i>a External funded</i>	<p>NATP/RPPS-12: “Utilization of by-products of pulses, oilseeds along with coarse cereals grain for intensive goat production” Worked as Principal Investigator of the Lead Center (CIRG)</p> <p>AP Cess-DSS: “Development of supplementation strategies for goats under field condition”, code 3030422011” Worked as Principal Investigator of AP Cess funded project</p> <p>AICRP (FRN): “Improvement of feed resources and nutrient utilization in raising animal productivity” Project Co-PI in AICRP on Nutrition</p> <p>AICRP (GGB-1.09): “Genetic improvement and sire evaluation of Jamunapari goats for milk production” Project Co-PI in AICRP</p> <p>Network Project (ICAR Funded) on “Preservation of veterinary type culture” Project Co-PI</p>
	<i>b Institute funded</i>	<p>GN 4.9: “Feeds and forage conservation, processing technology and their utilization by small ruminants” Worked as Project Co-PI</p> <p>GN 4.11: “Development of effective feeding systems for optimizing sheep productivity” Worked as Principal Investigator during 1st half and second half as Project Co-PI</p>

- GN 4.12:** “Studies on mineral status of feeds vis-à-vis goats” Worked as **Project Co-PI**
- GN 4.14:** “Design and development of machineries for fodder production, conservation and processing of feeds for commercial goat farming” Worked as **Project Co-PI**
- GN 4.17:** “Response of feeding by-products based complete feeds on growth in different breeds of goat and on reproductive performance in female Barbari goat” Worked as **Project Principal Investigator**
- GN 4.18:** “Studies on silvi-pasture system for sustainable goat production” Worked as **Project Co-PI**
- XI/NFRPT/2:** “Development of feeding strategies for goats under intensive and semi-intensive system” Working as **Project Principal Investigator**
- XI/NFRPT/1:** “Development of fodder production, conservation and processing technologies for small holders and commercial goat farmers” Working as **Project Co-PI**
- 11 **Teaching** Guidance of M.Sc. and Ph.D. students in the Anim. Nutrition/Anim. Sci. (under Veterinary College, Mathura and Dr. B.R. Ambedkar University, Agra)
M.Sc. students: Three (completed)
Ph.D. students: Three (continuing)
Training to Professionals (University Teachers, Bank Officers, Veterinarians, Extension Officers Commercial and traditional goat farmers)
- 12 **Extension Activities** Demonstrated nutritional technologies to all trainees (goat farmers, professionals, extension workers etc.) under the Training Programmes as organized by the CIRG on regular basis.
- 13 **Publications**
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| a | Research Papers in Referred Journals (National and International) | 29 |
| b | Lead Papers/Invited Papers | 3 |
| c | Book Published | 2 |
| d | Book Chapters published in English | 7 |
| e | Book Chapters published in Hindi | 8 |
| f | Critical Review/Popular Articles in Referred Journals | 6 |
| g | Radio Talk | 2 |
| h | Extension Folders | 2 |
| i | Other Scientific Articles | 4 |
| j | Technical/Project Reports Edited/compiled | 13 |
| k | Technical Bulletin | 1 |
| l | Technical/Popular Articles in Hindi | 3 |
| m | Research papers (abstract) presented/published in the International Conference/Symposium | 14 |
| n | Research papers (abstract) presented/published in the National Conference/Seminar | 63 |
- 14 **Institute Building Activities/Infra-structure developed**
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| a | Feed Processing Unit developed | Feed Processing Unit developed under NATP/RPPS-12 Project and Institute based Projects with Feed Pelleting Machine, Feed Grinder, Low Cost Feed Pelleting machines, Feed Block Machines, Feed Mixture, Metallic racks for hay making, Poly-house hay drier etc. |
| b | Strengthened Nutrition Laboratory of CIRG | Procured different equipments for Nutrition Laboratory of CIRG like Bio-Fermentor, HPTLC, Spectrophotometer, Centrifuge machine, Ph Meter, Block Digestors, Magnetic Shaker, Microscope, Xerox Machine, Computers, BOD Incubator, Hot Air Oven, Muffle Furnace, Refrigerator, GLC (computerized only) etc. |

- c Agriculture Farm Complex developed/renovated as Scientist-In-Charge of Agro-forestry and Ag. Farm Section
- Agriculture Farm Complex developed/renovated at Sector 3 of the Institute with renovation and construction of new implements shed, Office Room, Store Shed, Chain-linked fencing of the entire complex with systematic plantation (about 1ha).
 - Various infrastructure developments in the Ag. Farm Section of the Institute; like increase in water harvesting potential with additional Monoblocks/Diesel Engines, renovation of Pumping Stations, development of Park-cum-Pumping Station, procurement of various equipments in the Ag. Farm like Diesel Engines, Water Tankers, Trolley for School going children of the Campus, Chaff Cutter etc.
- d Worked for Agro-forestry development in the CIRG Campus with
- Developed and maintained following **Agro-forestry Plots** in CIRG Campus as **Scientist-In-Charge** of Agro-forestry and Ag. Farm Section
- a. Neem Based Plantation :- One hectare
 - b. Mulberry Based Plantation :- One hectare
 - c. Mixed Plantation :- One and half hectare
 - d. Ber Based Plantation :-One and half hectare
 - e. Amla Based Plantation :- Half Hectare
 - f. One Nursery :- Half acre
 - g. Road side Plantations done with neem
- e Fabrication and Renovation of metabolic cages
Construction of new experimental shed
- Fabrication of 12 metabolic cages for metabolism Trial of small ruminants and renovation of 18 old metabolic cages and fabrication of feeders for intensive feeding to goats of different age groups.
- Constructed one experimental shed with group feeding facility of small ruminants
- 15 Workshop/Seminar/symposium Organized
- As Member Secretary/PI organized **four** NATP Project Workshop
As member of the Organizing Committee or Sub-Committee for organizing **seven** Symposium/Seminar at CIRG campus since 2004 to 2009.
- 16 Life Member of the Professional Societies
- Animal Nutrition Society of India
 - Animal Nutrition Association
 - Indian Society for Sheep and Goat Production and Utilization
 - Indian Society for Livestock Production and Management
 - Indian Society for Animal Production
 - Mobilization Society
- 17 Training Attended
- Certificate course in Computer Applications from ET&T Corporations Ltd., Agra (duration: 10 weeks, 1999)
 - NARP Training on “Agro-forestry, fodder production and animal nutrition” from IGFRI, Jhansi (duration: 30 days, 1995)
 - “Recent advances in rumen microbiology and biotechnology” from CAS (AN), IVRI, Bareilly (duration: 21 days, 2002)
- 18 Professional Registration
- Veterinary Council of India, New Delhi
 - UP Veterinary Council, Lucknow