Rajasthan Agricultural Competitiveness Project (RACP)

Operational Guidelines
Livestock strengthening and management

Objective

The objective of this sub-component is to demonstrate enhancement of livestock particularly goat productivity and significant increase in incomes from goat production by adopting climate smart practices. The focus is on goat production due to two main reasons: first demand for goat meat is increasing (Out of the estimated 40,000 heads of Rajasthan livestock slaughtered daily nearly 60% are goats) and second is, goats are kept by small land holders & tribal and managed by women and thus there is need and opportunity to support livelihood development of the most vulnerable community through RACP.

There is significant opportunity to improve profitability of goat farming given the fact that currently markets are unorganized and animal productivity is low. While goats are found throughout the state (although production systems differ somewhat between the more arid western areas of the State as compared to the east) there are some districts with higher number & concentration, where RACP clusters are proposed to be selected based on nature of water access. Livestock component will focus on areas where there is both sizeable population & density of goats.

The project will focus on (a) improving market access and value addition; (b) improving productivity adopting climate smart practices focused on breeding, animal health care, scientific feeding and improved husbandry practices such as stall feeding, better use of crop residues, improving grazing land and silvi-pasture on private and common property; and (c) capacity building support to farmers through training to backstop delivery of improved technical services and farmer advisory. Small local support units may subsequently be built to support farmer training and access to services.

1. Cluster Agriculture Competitiveness plan (CACP) - Goat Development

Project envisages investing and working in a cohesive way with all the identified components for benefitting the farmers in a sustainable manner, up-scaling the successes and documenting the learning. For the purpose it is planned to prepare the Cluster Agriculture Competitiveness plan (CACP). The CACP will have a defined objective and will include baseline surveys and proposed interventions and their monitoring in Community level Institutional Development, Water Conservation and Resource Management, Climate Resilient Agriculture, and Value Chain Development. The CACP planning process will result in a detailed project report for the selected cluster. CACPs are prepared through a participative process involving a broad range of stakeholders, including private sector.

PMU/ DAH may engage competent consultant as per World Bank procurement guidelines for preparing CACP-Goat Development. CACP –Goat Development among others shall include followings:
i. Cluster details – Area, villages, Geographical conditions, Rains, Soil, preferred Agriculture & Fodder crops, AHD/KVK/RAJUVAS institutions and activities

ii. Strategic context for selecting Goat Value Chain- Goat population & density (Village wise), Goat markets, link to traditional markets, Fodder availability etc.

iii. Present Goat development status of the district and cluster including goat breeding farms

iv. Existing Goat Breed and its productivity

v. Major constraints for development of goat farming: breeding, health, nutrition and marketing

vi. Goat farming as livelihood support for the cluster population esp. women

vii. Existing fodder farming: private and community land

viii. Present Goat farming business model of the district/cluster and its Av. Return to the farmers of differ herd size

ix. Goat Market (Rural & Urban) within the cluster and nearby, Average price of live animal, Meat and goat milk, existing model of live animal sale (wt. basis v/s herd sale), Position of meat shops in the cluster and nearby markets

x. Proposed model for improving productivity and profitability through

a. Community Organization for collective actions: Producer groups and their higher institutions

b. Breed improvement: for buck distribution and Goats to widows & Specially abled, and infertility treatment

c. Nutrition management: Round the year Fodder and Feed availability, Improving quality and developing common pasture land

d. Health Services: Preventive and Curative, common diseases esp. of kids and precautions required. New centers or Mobile treatment facility requirements

e. General Management: Housing, Feeding and watering practices and improvement required

f. Marketing: New Business model and markets link up

g. IEC: Capacity building of goat rearer and existing AHD/NGO staff, model for improved technology transfer and information (marketing & technical) to farmers

xi. Tentative investment required for proposed plan including activity wise physical and financial requirement.

2. Eligible Investments:

1) Market and value Chain improving market and value addition, the project will support (a) formation of farmer producer groups to access diversified markets, better access to inputs and services and access to market information; and (b) Possibility to strength existing small ruminant markets or establish new markets (in the cluster or nearby) will be explored 2) Climate resilient agriculture - improving productivity through breeding, feeding and animal health, and establishment of small local support units (called Rural Technology Centres) 3) capacity building- supporting farmer advisory and training of the farmers, training of existing Animal Husbandry Department & NGO staff 4) Project management & Monitoring.

The potential for impact will arrive from increased profit to farmers by getting a higher price for their goats (through access to market information and value chain development through sale of animal/milk & meat, but also products like manure, hair, and hides); increased sale of goats due to reduced mortality and higher fecundity; and increased productivity (As a result of better breeding, feeding and healthcare). Women in particular
will benefit; they provide the majority of labour for goat production though they are often excluded in marketing

The following activities would be undertaken under Livestock Strengthening and management component:

2.1 Market and Value Chain: To improve market and value addition, the project will support (a) formation of farmer producer groups i.e. Multi Task Groups for Goats that would enable the producer to access diversified markets, better access to inputs and services on a gender equitable basis and access to market information; and (b) Possibility to strength existing small ruminant markets or establish new markets (in the cluster or nearby) will be explored. These markets shall be operated through community organisation (MTG/MTA/Producer Organisation) or PRIs. Initially specialised organisation as Technical / Market Resource Agency may be hired by PMU, RACP to manage the marketing and build capacities of the community organisation. Basic infrastructure (civil and Equipment) will be supported by project as per World Bank procurement guidelines.

2.1.1 Formation of Multi Task Groups (MTGs) for Small Ruminants Activities: The Goat farmers are to be organized into MTGs @10-15 farmers per MTG (as per the action plan) through NGO selected by PMU RACP. Selection criteria for Small Ruminants (SR) farmers to become member of MTG would be as follows. Farmer should be:

a) Only women and preferably small or marginal goat rearer.

b) possess at least 3 goats (not essential for widows and specially abled)

c) Willing to participate in the programme and willing to contribute her investment as per pattern of funding.

d) Members of SC/ST community must be included at least as per the funding pattern.

Initially DAH, until NGO selected by PMU, may initiate identification and selection of women MTG members and later they will become members of MTG. The list of members shall be informed to Gram Panchayat, if Gram Panchayat have any observation/suggestion shall be communicated to Implementing Agency for improvement.

2.1.2 Establishment of Small Ruminant Haats

i. Marketing is most crucial activity for producers to realize proper cost and income of their farm produce. Small ruminant markets are rare and existing ones are not properly managed. No standards are laid down for managing the Small Ruminants markets. There is need for developing local markets at potential locations where sale and purchase deals are done timely and farmers get good price of their produce. Establishment of Small Ruminants markets which are managed by MTG/MTA/ Cluster Goat Federation/PRIs with sustainability objectives in mind.

ii. The selection criteria for Haat includes: (a) Preferably it should be in the project cluster or very nearby (b) at least one weekly or fortnightly market can be organized in the haat; and (c) village Panchayat will provide place for Rural Haat (it may be already existing in the area, if it is not available then land (5-10 Bigha) will be provided free of cost) (d) Initially, RTC staff and Technical Resource Agency (TRA) will initiate the goat marketing operation at Rural Haat and simultaneously build capacity of the community & PRIs. TRA will transfer the operations of Rural Haat to the community/PRI for sustainability (e) PMU RACP in consultation with DAH and as per World Bank procurement procedure will finalise the agency for design and civil construction for Rural Haat. (f) Technical Resource
Agency will be responsible to provide hand holding support to RTC/Panchayat Level Community Group for functioning and maintenance of Rural Haat. (g) Technical resource Agency with the support of NGO/RTC will train and support MTG (Goat)/Producer Organisation/PRIs for functioning and maintenance of Rural Haat (RH): Technical / Market Resource Agency in consultation with PMU/PIU/DAH will finalise the SOP (standard operating procedures) of Rural Haat functioning. PMU in consultation with AHD/Technical / Market Resource Agency will assess the need of infrastructure for rural haats with reference to the market. The market needs assessment will also be done by NGO/RTC/PIU/DAH local office through participative consultation with community.

iii. The illustrative facilities that may be provided in the Haat as per suggestions/recommendations of Technical / Market Resource Agency. These may include among others Compound wall, few goat sheds, electricity/solar, drinking water, toilets Vet. Facility, loading-unloading platforms, waste disposal, feed storage office cum meeting room and essential equipment like weighing balance, milking machine, computer etc.

iv. These SR markets can also be used for organizing health check-up camps, vaccination & deworming of SR, field visits & demonstrations, GB-MTG /Producer Company meetings. (Annexure-3)

2.2 Climate Resilient Agriculture

2.2.1 Productivity enhancement will focus on a) breed improvement through supply of improved bucks; and advisory services to ensure breeding cycle coincides with market demand, climatic conditions/ resources availability, b) improved feeding through advisory support to improve nutrition and better use local resources; improving fodder availability through improved & expanded fodder and silvi-pasture development on both private and public owned lands, better integration of crops with livestock through simple storage, production and processing of crop residues to include, feed blocks, chaffing and fodder banks; c) animal health services that are adequate, targeted and timely provided including animal health camps organized by DAH through RTC staff; d) animal husbandry and management advisory support to encourage housing and manger/stall feeding to improve feed utilization, reduce disease exposure and promote hygienic practices.

2.2.2 The program will focus upon improving goat productivity through scientific interventions viz. breed improvement with high productive suitable breed as per choice of community and approved breed policy of the state, development of fodder production and improving feeding practices, scientific housing, rearing & management practices (health care, vaccination and deworming), training and demonstration for knowledge, empowerment and capacity building, processing and value addition, developing market linkages through MTG's, generating employment opportunities and institutional development for post-project sustainability.

A. Breed improvement

a) Improved Bucks distribution to farmers

i. NGO will be responsible for organisation of farmers/beneficiaries into MTG and selection of eligible MTG members for buck distribution for goat breed improvement.

ii. Improved bucks will be procured and provided to farmers by DAH (a cluster level committee including MTG members and vet expert of DAH) with assistance from, MTG/MTA/Goat Federation through community procurement/Shopping. The committee will enquire from the RAJUVAS / CSWRI/DAH breeding farms for availability of the
bucks/goats for procurement; priority would be given for procurement from RAJUVAS/CSWRI/DAH farms. In case of non-availability/non suitability from these farms the committee may procure from identified breeding farms or breeding tracts of the specific breed. Private Breeding Farm may be identified and selected by expert committee under the project as per Bank procedure.

The cluster wise purchase committee will be constituted as under

1. Sr. Veterinary Officer/ Veterinary Officer placed at cluster and nominated by JD of the concern district
2. Jr. Accountant/ Account representative of concern or nearby JD office
3. Two MTG members nominated by MTG (of concern MTG)

iii. One buck will be given for every 10-15 female goat to the individual goat farmers or group of farmers (bank contribution 75% remaining 25% farmer's contribution) through MTGs. The bucks shall be of 12-16 month of age and 30-35 kg of weight.

When procured from RAJUVAS breeding farm and free of cost; 25% share of farmer will be deposited in the sustainability fund to be created at cluster level.

The maximum indicative unit cost of Buck would be Rs.10000/- including transportation.

The cost of the purchased buck will not be paid cash in any case but will be deposited in the bank account of the seller preferably linked with Bhamashah Yojna.

iv. These bucks shall be tagged and insured. DAH local institution will also ensure timely rotation of bucks to prevent inbreeding.

v. Bucks will be vaccinated for all common diseases as per DAH advice. (Annexure-1)

b) Goat distribution to Widows and/or especially abled women

Forty per cent of the total rural work forces in the country are women and they are mainly engaged to agriculture and allied activities. To exploit their full potential, the women would be empowered through 1) making them economically self-sufficient, 2) improving their social status, 3) educating and training them to become self-reliant, 4) increasing their awareness and knowledge relating to skills in advanced rural based technologies, 5) increasing their participation in decision making and farm management and 6) creating proper entrepreneurial opportunities for them in the AH sector.7) Lower age widow shall be preferred.

i. Under the project four goats will be distributed (9-12 Month of age& 20-25 Kg of weight) to widows and specially abled MTG members identified with the support of NGO.

ii. Each selected widow or especially abled women will be provided 4 Goats free of cost for adopting goat farming as livelihood support.

iii. The required goats would be procured from home tract of the breed/Govt. farm/Private breeding farms or RAJUVAS goat farm per the World Bank procurement guidelines and through the committee including MTG members. The procurement procedure and guidelines will be the same as for buck purchase and detailed above. The maximum unit cost of goat will be Rs 8000/- including transportation. The committee will not pay the cost of the animal in cash but will deposit in the seller's (farmer) bank account preferably linked with Bhamashah Yojna.

iv. Breeding services to these goats will be provided by the bucks distributed to other MTG members under the project and free of cost.

v. Goats will be vaccinated for all common diseases as per DAH advice (Annexure-2)
c) **Animal Risk Factor**

i. To insulate farmer from animal risk factor due to mortality, Bucks/goats provided under the project will be insured with project support. **Although insurance** of whole herd will be promoted through awareness and if insurance company will not support then alternate mechanism of community insurance will be developed through MTGs/PO under the guidance of NGO/DAH.

ii. DAH will promote Goat/Buck Insurance and insurance of goat breeder for social and financial security. Project will support 75% Premium paid (for the project period) for insurance of animals provided under the project and rest 25% share would be contributed by individual goat farmer Project will also like to dovetail available government insurance scheme for small ruminant.

iii. RACP/DAH will procure the agency for animal insurance as per the World Bank procurement procedures and agreed guidelines.

iv. NGO and DAH will ensure timely claim settlement, coordinating with the insurance companies.

B. **Health and Awareness camps**

a) Access to quality health services is crucial to protect livestock against diseases. Animal health services in the State are in public domain and sometime farmers especially the small holders goat farmer unable to access the services at the time of need. Identification of disease problems, health status of animals, disease treatment, diagnostic and prophylactic activities, control of ecto & endo parasites, disease outbreak control measures, disease monitoring & surveillance are important issues to be addressed.

b) Organization of health care and awareness camps by RTC/ DAH institutions where activities like vaccination, de-worming, castration, mineral mixture distribution, treatment, extension, etc. will be undertaken.

c) It is envisaged to organize need based health and sterility camps periodically through Rural Technology Centre (RTC)/ DAH institutions in order to cover all health related issues in the project area. The health camps will be organized for vaccination; deworming, etc. at least once in a month in each gram Panchayat.

d) Health check-up and treatment of infertile animals shall be covered in these camps. Department of Animal Husbandry in consultation with research institutions shall provide technical aid in addressing health related problems in the project area.

e) DAH will organise health camps under its free vet. Medicine and “Pashu Chiktsayalya Pashu Palak ke Dwar” scheme and project will financially support Rs.5000 per camp for additional expenses. This will cover expenses towards registration/vaccination, cleaning, tent, sitting, water, publicity, small refreshment and miscellaneous/contingency. The JD of the concern district may issue the specific order for addressing all the local needs and to maintain uniformity of expenses in the cluster. The order will also describe the records to be kept for animal treated and farmers attended the camps.

f) Additionally Rs.2500 per camp may be provided if marketing activities will be organised at the camp site. PMU in consultation of PIU will issue the detailed guidelines for the purpose.

g) Additionally Rs.1500 per camp may be given as honorarium to attending staff linked with the no. of camps organised to enhance the technical knowledge of the farmers by organising a Gosthi at the camp site. The details may be Rs.1000 to Veterinarian
(SVO/VO, OIC of the camp), Rs 500/- to VA/LSA. PMU in consultation with PIU will issue the detailed guidelines for the purpose.

h) In each camp Pashu Palak Goshti of at least 50 farmers will be organised for disseminating the latest information and knowledge of animal husbandry.

i) At least three photographs of each camp covering major activities will be shared with PIU.

j) The month wise calendar will be prepared and shared with PRIs/DAH/PMU. Animal health camps reports will be given in this Performa. (Annexure-4)

C. Mobile Emergency Animal Health Van cum Ambulatory clinic:

The mobile Emergency animal health van cum ambulatory clinic is an excellent driver/support tool for implementation of the activities related to the animal husbandry.

The Project will provide one Mobile animal health van cum ambulatory clinic in cluster and 100% cost will be borne by the project and it will be procured by the project as per the World Bank procurement guidelines. The project will also support its running and recurring expenditure during the project period. It will be handed over to the DAH and will be used for providing the services in the cluster. The Mobile vehicle shall be equipped with storage of medicine/ vaccines, primary testing and minor surgical interventions.

D. Installation of Travis in project cluster:

Project will support the animal health services in the project cluster villages, and for inspecting the animal it is essential to restrain the animal. This is safe for the professional and also comfortable for the animal. It is planned to install travis for restraining the animals in all the villages where already not available through department of animal husbandry. Actual requirement will be assessed and procurement will be done as per World Bank procurement guidelines.

E. Fodder Demonstrations on private lands

a) Project shall focus on the present constraints in adequate fodder availability in the cluster and design solutions in consultation with community.

b) The focus would be on using varieties that are less sensitive over changes in climate and of higher fodder yield.

c) The cost norm for demonstrations would cover the expenditure on provision of critical inputs i.e. know-how, seeds, fertilizers, insecticides, micronutrients etc. The rate of the demonstration is subject to revision depending upon the type of demonstration, critical inputs and prevailing rate.

d) DAH shall decide total number of demonstrations to be carried out in a village with the help of NGO/Multi Task Groups/MTA/Cluster level federation.

e) Although total number of demonstrations per village would vary from village to village depending on area of the village under the crops and number of farmers and small ruminants available in the village.

f) Fodder Demonstration shall be organized/laid out on the field of members of MTGs.

g) Size of demonstration should be 0.4 ha area. One demonstration would be given to one farmer only.

h) Fodder crops for demonstration shall be selected on the basis of local conditions and in consultation with the KVK & community. Before laying out of demonstration, farmers
shall be oriented for various inputs, quality, yields and fodder conservation. After organising the demonstration data of harvest shall be collected and share with project and other farmers.

i) The area of the each demonstration would be up to 0.4 ha per farmer and an estimated cost of the inputs would be around Rs.5000/- (on actual basis)/0.4 ha. Project will support the full cost of seeds and inputs (Fertilizer, pesticides & micronutrients).

a) **Azolla Demonstration**

The demand for milk and meat in India is creating new potential in the profitability of animal husbandry as an occupation. Yet, at the same time, there is a substantial decline in fodder availability. The area under forest and grasslands is decreasing as is the amount of various crop residues available for feed, largely due to the introduction of high yielding dwarf varieties. The shortage of fodder is therefore compensated with commercial feed, resulting in increased costs in meat and milk production. Moreover, as commercial feed is mixed with urea and other artificial milk boosters, it has a negative effect on the quality of milk and the health of the livestock. The search for alternatives to concentrates led us to a wonderful plant azolla, which holds the promise of providing a sustainable feed for livestock.

Azolla is a floating fern and belongs to the family of Azollaceae. Azolla hosts symbiotic blue green algae, Anabaena azollae, which is responsible for the fixation and assimilation of atmospheric nitrogen. Azolla, in turn, provides the carbon source and favourable environment for the growth and development of the algae. It is this unique symbiotic relationship that makes azolla, a wonderful plant with high protein content.

Demonstration of Azolla with capacity of producing sufficient Azolla for feeding minimum 20 +1 unit of goats daily (Approximately 3 KG. Daily) will be organised at MTG's field. AS being the new technology initial 1-2 days field training & hand holding support and all inputs will be provided with project support. One demonstration would be given per farmer.

Records for production shall also be maintained for popularizing the technology. The approximate cost of the unit would be Rs.2500 per unit.

F. **Establishment of Rural Technology Centres (RTC)**

a) Suitable existing institutions of Department of Animal Husbandry will function as Rural Technology Centres (RTCs) in the project clusters at the strategic location for goat development with aim to provide health, prophylactic services and centres for technology demonstration & extension.

b) There would be two types of RTC: A & B Grade, 'A' grade shall ideally be centrally located. Vet. Doctor placed at RTC 'A' grade will be responsible for organising all the project activities under DD LSD / OIC RACP supervision, in the cluster and also manage Emergency animal health services.

c) Project will support building construction and procurement of basic furniture, equipment's and recurring expenditure during project period for effective functioning of RTCs. RTC will have organic relation with DAH as after the project period assets and functions will be transferred to DAH. The RTC will also have facility for feed & fodder, vaccine, medicines & mineral mixture Storage. Meeting place for MTA/PO/Cluster federation. RTC can be a place for organising health camps, training, exhibition and seminars
d) DAH with the help of construction expert will finalise the design of the RTC. RTC will also have required equipment and furniture etc. Facilities for organising trainings, meetings and farmer’s workshop will also be created. The project will also support operating cost of the RTCs that will include office expenses, running and maintenance cost of the emergency mobile vehicle.

e) The approximate expenditure of operating cost would be as under but directions from PMU would be issued separately:

POL & Maintenance for Mobile vehicle: Rs 10,000 per month
Cost of Driver: Rs 10,000 per month
Office Expenses of RTC: ‘A’ Grade- Rs 5,000 per month
‘B’ Grade- Rs 2,500 per month

Inter component flexibility of the above expenditure will be available with the approval of the PMU-RACP.

f) The project will invest a maximum amount to Rs.60 lac (A grade) and Rs.30 lac (B grade) for each establishment. If there is saving in the cluster for this component against the budget allotted, it can be utilised after approval of PMU for development of more ‘B’ grade RTCs but in the cluster area only.

G. Lady Link Worker cum Marketing Facilitator

Small Ruminant development especially for small holder is possible only through regular and timely help. This is only possible when a local resource person is available with information and professional linkage. Under the project it is envisaged that one progressive women farmer preferably MTG member per Gram Panchayat, selected through NGO / ARAVALI and RTC will be trained as resource person i.e. Lady Link Worker cum marketing facilitator.

This worker will be the local common linkage both for the project and women farmer. She will maintain the inventory of MTG members’, their goats, goat health status, project activities schedules etc. She will coordinate organisation of camps and Goat Haats for the project beneficiaries.

Roles and Responsibilities:

1. LLW will facilitate extension services; make farmers aware about vaccination, deworming and health care, feed - fodder and housing and other management practices.
2. LLW would support in timely implementation of various activities planned under AHD component of RACP
3. LLW would also facilitate formation and mobilising the MTG (goat)
4. LLW shall play a role in creating awareness about animal health, safety in case of outbreak of contagious diseases, extreme climatic changes like heavy Rainfall, flooding, extreme cold and hot temperatures, food scarcity due to drought.
5. LLW shall creating awareness in neo-natal care of young kids and does, weaning and milking of goats.
6. Lady Link Worker shall play role of entitlement facilitator and enhancing outreach of schemes of Department of Animal Husbandry to marginalised farmers.
7. She will maintain an inventory of ready to market animals for organising rural haats and also motivate farmers to sell animals on weight basis.
NGO /ARAVALI will developed a manual for LLW selection parameters, process, worked related honorarium method and training with due approval of PIU/PMU. NGO /ARAVALI will also participate in selection process and conduct training of the selected LLWs. These LLWs will be supported for monthly worked related honorarium.

H. Housing and Management

Goat housing is important in intensive system of production; in fact one must ensure proper comfort of animals for production to gain maximum profits. The main aim of housing is to protect animals from harsh, uneven climate as well as environmental stress. Climate is the unique combination of various meteorological components which includes temperature, humidity, precipitation, winds and sunlight. Proper combination of all these factors is necessary to provide need base comfort to animals. Basic requirements for housing is:

Where to locate animal housing/sheds
- On a well-drained area
- On a floor 1-1.5 ft above the ground should the area be waterlogged or prone to flooding
- Keep in mind the possibility of expansion
- An appropriate flock development plan has to be made to anticipate future construction needs

Orientation:- One can prevent the sun from heating up the stall too much by placing the longitudinal axis of the stall east - west. It is recommended in north Indian conditions.

Ventilation:- Ventilation is of utmost importance to maintain a desirable interior temperature of 28 to 30°C. If the animals cannot get rid of heat because the surrounding temperature is too high (above 30°C), they eat less and therefore produce less.

Majority of pneumonia cases can be traced to excessively warm and humid interior and sudden changes in temperature. It is, therefore, necessary to make the shed sufficiently high and make sure there are openings for ventilation in the roof or walls.

To promote and support the simple, low cost but scientific goat housing project will financially support goat housing including feeding/watering trough for MTG members.

Goat houses and feeding/watering trough shall be designed in consultation with DAH/RAJUVAS/CIRG Makhdoom/ NGO and as per the local suitability and would be approved from PMU-RACP. Under various government schemes like NREGA/AAJEEVIKA successful model and costing is available so priority shall be given to these tested models in consultation of PMU and if possible dovetailing with available schemes may be done.

Project will support goat house for unit of 20 goats including kids and one buck (220 Sq. feet). The project cost for goat house is Rs 40000/- per unit including one weighing balance and Rs 5000/- for feeding/watering trough; 50 percent project contribution and remaining 50 percent farmer contribution.

I. Chaff Cutter Distribution

To save the wastage and improve digestibility project will demonstrate and motive chaff cutter use by small holder farmers. Good quality manually operated Chaff cutter as per BIS specification will be provided to goat rearers on 75 percent project support. DAH through NGO will promote regular use of chaff cutter.
J. Animal Identification (Tags) with Applicator and Needle

Identification is the process by which the goats are marked for their individual identity. All the animals (Bucks/Goats) distributed with project support must be duly tagged for identification. In addition animals’ treated for fertility shall also be tagged for follow up. Improving productivity is the most important objective of the livestock component and possible only through controlled breeding, improved nutrition & management practices. For controlled breeding it is essential to mark and identify each animal. Under the project all efforts will be made to tag all the goats and bucks of MTG members so that a closed monitoring of controlled breeding can be made.

3. Capacity Building and Training of farmers and professional staff

a) DAH with NGO support will organize training as per the training plan prepared for the cluster.

b) A training need analysis has to be done for various stakeholders like goat farmers, NGO, and AHD staff. Accordingly the relevant training programs will be organized for all the stakeholders. It will be ensured that majority of the members of MTG/UG receives basic training involving skill up gradation and orientation on the technical and organizational aspects.

c) Besides goat; training on application of remote sensing technology for generating database for Animal Husbandry activities will be included in the training program.

d) Project will support to organize exposure visits of successful Animal Husbandry projects for members of MTGs and professional staff with the aim to adopt best practices and improved technologies. Project will also support refresher training of the professional staff engage in project implementation at national level institute in relation to goat development.

e) In each village all the members of the MTG will be given Goat management 3 Days training at RTC/GP/Village level. This will cover General Management, Breeding, feeding esp. fodder development and Goat marketing esp. synchronisation as per the market demand.

f) Quarter wise training schedule will be prepared and shared with PIU/PMU in advance. The schedule should be approved by concern JD.

g) Training records including details of MTG members, guest lectures and training schedule should be kept for each batch.

h) One Day refresher training of MTG members will be organised at least six month after the first training.

i) PIU with ARAVALI and PMU will finalise the place of professional training and arrange to organise these trainings. All RTC staff, other doctors/ VA/LSA placed in the cluster, concern district/state level officials will be eligible for these trainings. These trained personnel will be the TOT.

j) Goat Exhibition cum Seminars will be organised to motivate farmers for rearing quality animals and showcasing the best practices. RTC will take the initiative with the help of NGO and under JD/DD LSD supervision. The goat exhibition cum seminars will be organised at the cluster level and as per the approved action plan. The programme will be approved by the PIU on recommendation of the concern JD.

k) All types of trainings would be organized as per the approved Annual Action Plan.
Cost Norms for Capacity Building/Orientation/Seminar/Workshop/Exhibitions/Exposure etc.

Cost norms as given in ATMA guidelines will be followed till Training & Capacity Building Manual under RACP is issued for all types of training like orientation, capacity building, exposure visits, Exhibition cum Seminar, Workshops etc. PMU will separately issue guidelines for organising the programme.

Preparation of Annual Action Plan (AAP):

Department of Animal Husbandry being the implementing agency will prepare the perspective plan (for total project period) and Annual Action plan for each project year separately and submit to PMU by end of December of previous year with justification and pert chart. This will detailed the cluster wise activities, physical target, unit cost and project cost. The project cost will clearly detailed the project contribution and farmer’s contribution as per the operational guidelines. Department will implement the activities only according to the approved action plan. If any deviation or clarification required matter with justification shall be submitted to RACP PMU.

Procurement

Assessment of requirement of various items would be done in time and shall be included in the procurement plan and would be submitted to PMU along with Annual Action Plan for World Bank approval. Procurement for proposed goods & services will be done as per procedure mentioned in Procurement Manual and approved procurement plan.

Fund Flow Management

PMU will arrange to transfer funds to DAH on the basis of demand received which will be based on projection of expenditure on quarterly/six monthly/annual basis and within overall approved annual action plan. Funds will be transferred to the Director Animal Husbandry. Director Animal husbandry will transfer the required funds to PIU and concern Joint Director Animal Husbandry on the basis of the projected expenditure of the office for that duration. PIU & Joint Director Office will incur all the required expenditure as per the approved annual plan and as per World Bank procedures. All activities will be implemented in the cluster as per approved annual action plan with due sanction of the concern Joint Director Office. Flow of funds would be done as per the Finance Manual of RACP.

Implementation of activities and payment of Bills:-

Concern Joint Director Animal Husbandry will implement the activities in the cluster through its existing staff /contract staff provided by RACP and as per approved operational guideline or amendments issued by RACP. The expenditure will only be according to the approved action plan/ OG and World Bank procurement procedures. The cluster level office based on the JD sanction will do the job/activities, raise the bills, duly verify and submit to the Joint Director office for payments. For the activities/items community procurement is permitted, JD will issue sanction, constitute the local committee for physically verification and on that report will pay the beneficiary in his bank account only. As per the agreed procurement procedures for certain items rate contract will be finalized at PMU/PIU, for those after satisfactory receipt as per agreed specification/terms-conditions and store entry payment may be released to the supplier by concern JD. For payments government treasury system will
be adopted. Allowances etc. will be payable as per government rules. PIU will incur the necessary expenditure as per approved action plan with permission of the Director Animal Husbandry.

Regarding sustainability fund PMU will prepare detailed procedure in consultation with PIU and after getting approval/concurrence from World Bank, the same will be issued.

**Maintenance of Records**

Following records and registers will be maintained at DAH

1. Category wise list of MTG and MTG members in the Cluster.
2. Category wise Project Beneficiaries for each project investment
3. Govt./project staff received training and exposure with all training details (Duration/Place/cost)
4. MTG members’ received training & exposure with all training details (Duration/Place/cost)
5. All records for procurement and Finance/Accounts requirements.

4. **Supervision and Monitoring of the implementation**

The supervision of the works is necessary to ensure technical standards and quality assurance of the activities to be implemented under this sub component. The PIU and concern JD/DD (LSD)-OIC, under community consultation would supervise execution of works ensure that the activities are executed as per approved plan and project norms will also maintain the record which would be made available to PMU/PIU officials or on their behalf to authorise agency for inspection whenever required.

PIU is constituted at state level and is supported by RACP for overall coordination and supervision of project activities. The need based operating cost would be made available as per the approved Annual Action Plan. The expenses of man with machine will be booked under RACP. One post of Sr.V.O. is already sanctioned under RACP in PIU and the salary of this post will be paid by the PMU, TA/DA of project specific tours may also be booked under RACP. Nodal officer PIU can also hire vehicle for project related activities as per the budget available and sanctioned issued by PMU.

At district level DD (LSD) is the OIC for the project and he will implement the project under supervision of JD and through cluster level DAH institutions. Project will support office expenses (including TA/DA of project specific tours) of the district office and POL expenses / Vehicle hiring cost can be charged against POL for Monitoring Item as per directions / orders issued by PMU.

Project will provide one veterinarian (DC) at cluster level for supporting all the project activities. He will be placed at cluster level to support RTC for organising all the project activities.