"SUPPORTING THE DEVELOPMENT OF LIVESTOCK SYSTEMS IN GUYANA AND SURINAME"

Prepared by: Dr. H. Muñoz, Dr. C. Buckmire
Dr. P. Davis, Ing. J. Rump.
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IICA–OFFICE SURINAME
PARAMARIBO
IICA PROJECT.

PROJECT TITLE: "SUPPORTING THE DEVELOPMENT OF LIVESTOCK PRODUCTION SYSTEMS IN GUYANA AND SURINAME".

PRESENTATION AND JUSTIFICATION

1. IDENTIFICATION.

1.1. Program II Technology Generation and Transfer.

1.2. Geographic scope Guyana and Suriname Headquarters Suriname.

1.3. Type of Project:
   - SUPPORTING THE DEVELOPMENT OF LIVESTOCK PRODUCTION SYSTEMS IN GUYANA AND SURINAME.
   - Multinational ___X___ - Area Caribbean Hemispheric


1.6. Finance with: See Source of resources in Annex I.
   - Regular resources: ___ Quotas US$403,900.00
   - Other US$1,021,800.00
   - External resources: US$808,000.00 Source BID, Canadian High Commission, IICA, CARDI

CATI's: US$969,400.00


1.8. Approval: Memorandum _______________ Dated _______________

Code__________________________

2. **ANTECEDENTS.**

This project started its actions as a response of IICA to the Guyana and Suriname Governments' requests for collaboration and support in the development of livestock production. The original project document was prepared in 1989 and its actions are due end of December 1991. This present document is a reviewed version, which has actions and activities planned to respond to the Governments' requests (See ANNEX II, "Governments' Requests") as well as the observations made and point of view expressed from the National and Regional Institutions involved with the project.

In Guyana, the National Dairy Development Programme (NDDP), will be the main Institution through which the project action will be concentrated. However the National Agriculture Research Institute (NARI), the Livestock Development Company (LIDCO), and The University of Guyana (U.G.), will be the National Institutions collaborating and participating in the project. An agreement with CARDI was signed to support and collaborate in conducting research in Development Dairy Production Systems. The CARDI/IDRC project extension for 1993-94 is under negotiations.

In Suriname the Animal Production and Health Division (APHD), will be the Institution through which project actions will be focused. However the Foundation Experimental Agriculture (SEL), The University of Suriname (UoS) and Farmers Association (FA) will actively collaborate and participate in conducting project actions.

IDB and the Canadian High commission are the two agencies as sources for the external funds under negotiations to support project farm development. The main source of funds for project implementation are farmers' contribution or possibly through loans from local banks.

This project version was prepared by the IICA Livestock Specialist, based in Suriname and, by the two National Livestock specialists who are coordinating project activities in Guyana and Suriname, respectively. The project addresses the urgent need in the development of the Livestock Production in Guyana and Suriname.
3. SPECIFIC PROBLEM.

Despite Guyana's dependence on a viable Agriculture sector, as like most Caribbean Countries, Livestock production development has not received full emphasis and support from the Government to promote increased production of meat and milk to decreased importation of these products. Agriculture policies have not changed with the changed needs of the agricultural sector. As a result, the Government has appeared reluctant to participating actively with related institutions (and IICA) in development and implementation of Livestock Production technologies.

In Suriname, the Government policy in the Agricultural sector is to increase the availability of food and achieve self sufficiency in the coming years. Whereas high priority had been given to the upgrading on the dairy industry in order to achieve self-sufficiency, milkproduction on the contrary has continued to fall back to a dramatically low level. (from 1984, 4.1 Ml/litres - 1990 2.4 Ml/litres). The economic crisis has caused great difficulties and unrest in the Livestock Sector. The prices of most farm inputs have risen between 500 - 1000% while the official milkprice has not been adequately adjusted. This has resulted in counter action by the milkproducers to start selling their raw milk and milk by-products directly to the consumer. This, a practice which could have serious consequences for public health. Notwithstanding the farmers actions, deterioration of the dairy production continues to occur.

The countries' economic situation has also caused an exodus of qualified personnel on all levels, which is now resulting in the fact that the Government no longer has the capability of reversing the situation, seen the magnitude of the problem; the shortage of qualified personnel, the lack of appropriate technology as well as the means, systems and the low skill personnel involved. To transfer the technology to the farmers, in order to face the economic crisis are the specific problem that needs to be solved in the two countries.
4. GENERAL PROBLEM.

The specific problem which the project has to solve is to improve Livestock production in Guyana and Suriname. The past three years have given a clear identification as how to improve Livestock production, which has been recognized and acknowledged by the MoA through their request of continuance of IICA's Technical assistance, (ANNEX II), in this particular field. The actions to be taken will be concentrated in:

a. Desolving difficulties in the institutional capability, adapt and transfer appropriate technology.

b. Improve research systems geared towards generation and transfer of technology in resolving Livestock production problems.

c. To improve the skill of technical personnel of related institutions.

d. Improving the institutional capability of designing and implementing projects at all levels to improve Livestock production.
5. AREA OF CONCENTRATION AND CONTRIBUTION TO ACHIEVE PROGRAM OBJECTIVES.

The area of concentration to which the project belongs has a direct link with Program II, "Technology Generation and Transfer", and a lesser linkage also to Program V.

The main action of project activities have been concentrated to strengthen multinational responsibility for Technology Transfer such as NDDP, MoA, Farmers Association. Emphasis also is given to National and Regional Institutions responsible for generating Technology (CARDI, University of Guyana and Suriname).

6. TECHNIQUES AND METHODS AVAILABLE FOR SOLVING SPECIFIC PROBLEMS.

The IICA action in both countries had started with identifying the specific constraints in the dairy production sector. Based upon this experience methods have been developed to offer transfer of technology, often generated elsewhere in the region but which is adaptable to Guyana and Suriname. The testing of a number of techniques have resulted since, a complete technical package is available to the dairy farmers to increase dairy production. This experience developed in Guyana, as well as the technological package, has been transferred to Suriname and implementation on a number of pilot farms has been initiated. Support in preparing this package has been resourced from regional institutions such as, RISPAL, CATIE, CIAT and CARDI.
7. OBJECTIVES AND IMPACT.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>VERIFIABLE INDICATORS AND GOALS</th>
<th>EXTERNAL CONDITIONING FACTORS</th>
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OF THE DESIRED IMPACT

- Related institutions are strengthened and are presently exercising the Livestock Technology promoted by the project.

- Technical team in NDDP/MoA preparing farm development documents for farmers and are presently implementing appropriate technology to farmers.

- Technological package developed by CARDI and the University of Suriname.

- IICA's experience in institutional strengthening reinforced.

- Institutional management capacity to design and conduct development projects upgraded.

2. IICA Impact.

- Strategies developed to strengthen national and Regional institutions as well as the private sector.
### SPECIFIC OBJECTIVE OF THE IICA PROJECT

- To support the generation, testing, adaptation and transfer of appropriate technology for Livestock production in Guyana and Suriname.

### INDICATORS AND GOALS FOR CONCLUDING THE IICA PROJECT.

- Milk and meat increased and decreased the importation of Livestock products.
- Research on Livestock production strengthened.
- Collaboration between related institutions strengthened.
- Related Livestock personnel skills improved.

### FACTORS CONDITIONING ATTAINMENT OF THE DESIRED IMPACT.

- Technical personnel of MoA supply at regular intervals correct progress reports.
- High level officials of MoA support and collaborate to the execution of all proposed activities and support funds available for research.

### Additional

- Complete collaboration and interchanging of data related information between the related institutions CARDI/CIAT/RISPAL UoS/LLG/NDDP/MoA and IICA for planning, preparing and representation of Project activities.

- MoA, L.F.A. recognize and supply capable personnel for training and resources.
FINAL PRODUCTS
GENERATED BY THE
PROJECT (for Guyana
and Suriname).

- Ministry of
Agriculture
strengthened and
organized for
transferring
technology to
Livestock
Farmers.

INDICATORS AND GOALS
OF FINAL PRODUCTS
ACHIEVED.

Guyana.
G1 - At least 15C&C and
15 Grazing Dairy
units established.

G2 - 2000 acres of
improved pasture
established as means
of improving
feeding conditions.

G3 - Local creditline
available for dairy
farmers.

G4 - A.I. service
functional efficient

G5 - Training team
available for
conducting training.

G6 - 2 mix sheep/crop
production systems
established &
evaluated.

FACTORS CONDITIONING
ACHIEVEMENT OF THE
SPECIFIC OBJECTIVE.

- Credit
institutions make
resources available

- Ministry of
Agriculture poli-
cies on price and
importation revised.

- Ministry of
Agriculture makes
technical personnel
available for
training.

- MoA identifies
farmers willing to
participate in the
project.
- SURINAME -

S1-6 pilot private farms established in different regions.

S2 - Finalize establishment of the 20 ha. Dairy Demonstration Farm.

S3 - Establishment of a 15 ha. beef production farm.

S4 - Establishment and reorganization of State-farm.

S5 - Finalized establishment of a 20 ha. grass multiplication center.

S6 - Improving grass production on 50 private dairy units as a mean of improving feeding conditions.

S7 - Preparing of a feasibility study for livestock production as an alternative for oil palm production.

S8 - Implementation of feasibility study on slaughter & meat plant.

-SURINAME-

-MoA makes land available for Demonstration Units.

-IICA funds available for conducting the slaughter & meat plant facilities.

-Livestock production as an alternative for Palm Oil Production feasibility studies.

-MoA and/or Farmers' Association promotes training activities.
2. Technical + farm personnel & farmers skill upgrade.

- 10 -

**Guyana and Suriname.**

- GS1-10 field days for technical personnel, farmers and farm personnel.
- GS2-3 training courses for farmers and farm personnel in grass production, management and health practices.
- GS3-In-service training for at least five farmers and/or farm personnel per year.
- GS4-On-going in-service training for technical personnel.
- GS5-Horizontal brokerage of regional technical personnel.
- GS6-Four (4) project technicians attendance animal production meeting.

**Guyana.**

- Funds available from CARDI for validation phase.
- Availability of technical personnel of Ministry of Agriculture to conduct research and funds and land available.
- Government policies revised in order to promote the Farmers Association.
- Limitations of funds to promote project activities.

3.

- CARDI and University of Suriname research on milk production system supported and strengthened

**GUYANA**

- G7-CARDI research on generation of milk production systems technology completed and initiation of validation phase.
SURINAME.

S9-Research in grass evaluation is conducted by the University of Suriname as a support to the project activities.

- Livestock farmers organized and strengthened.

S10-Livestock farmers association offers services and inputs to farmers.

- Project activities promoted.

GS7-Three (3) videotapes on project activities prepared and released on television.

GS8-Six (6) press releases on project activities.

GS9-Three (3) Technical Bulletins Published.
8. STRATEGY

The project is a multinational in scope and includes Guyana and Suriname. However in the Caribbean and some of the South American countries, the experience and results achieved, are applicable to the national institutions that are in charge of technology transfer (NDP, LIDCO, LVV/MoA), Farmers Association and Private Farmers. The project will offer its support and collaboration in the planning, preparation and implementation of the actions and activities related to transfer technology to the farmers.

Support and collaboration in research problems, identification, planning, conducting and evaluating of farm research, will be offered to CARDI, U.G. and UoS, as regional and National research institution.

Both countries, Guyana and Suriname give priority to the area of livestock production where efforts, support and resources will be concentrated. Its development will improve food supply and decrease livestock products imports. The project will make emphasis on: Improving the livestock production mainly cattle (milk and beef) and sheep production; Supporting the national and regional institutions in charge of technology generation and transfer.

In Guyana, support to CARDI in Dairy production research will continue to be given in monitoring and evaluation of the model farms presently being tested, and in the initial stages of the validation and transfer phase.

In Suriname, using the experience and results from Guyana project activities, support to LVV/MoA and farmers in the establishment of pilot private farms in different regions of the country will be the main action. In Guyana, generation of information on sheep production systems will support actions in the CARDI sheep development project. Concurrent training in dairy production technology of farmers and farm personnel, and technical personnel (which include NDDP/MoA personnel) will be conducted in both countries. Also support will be given to the MoA in assisting in the transfer of technology to farmers during the establishment of dairy farms and in identifying problems which farmers experience in pursuing credit for farm development. It is envisaged that supporting and strengthening the MoA would upgrade their capacity in preparing farm-development plans for farmers, liaising with credit institutions, transferring dairy production technology to farmers and farm personnel and assisting in the establishment of dairy farms.
9. BASIC ACTIVITIES.

<table>
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<tr>
<th>TITLE</th>
<th>DESCRIPTION OF THE CONTENT OF THE ACTIVITY</th>
<th>INSTITUTIONAL PRE-REQUISITES.</th>
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<tbody>
<tr>
<td>1. Supporting and strengthening of MOA agencies related with technology transfer to farmers.</td>
<td>(i). Organise a training team within NDDP, to train in collaboration with IICA, farmers, farm- and technical personnel in the dairy production technological package developed.</td>
<td>- The support from the MOA in providing counterpart personnel to be trained and training facilities.</td>
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<td>(ii). To assist NDDP in the establishment of 30 dairy production farms in region 3,4&amp;5:</td>
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<td>- 15 cut and carry system.</td>
<td>- Selection by MOA of farms/farmers on the different regions.</td>
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<td>- 15 rotational grazing system.</td>
<td>- Availability of counterpart personnel promotion of campaign to farmers and establishment of at least 1500 acres of antelope grass pasture.</td>
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<td>and establishment of at least 1500 acres of antelope grass pasture.</td>
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<td>(iii). Promote artificial insemination service to farmers.</td>
<td>- Availability of field personnel in the different regions.</td>
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</table>
(IV). Improve credit channels /line by training NDDP personnel in preparation of farm development plans for farmers.

- Availability of field personnel in the different regions.
- Availability and competence of personnel to be trained.
- Agriculture policies supportive of credit institutions.
- Credit atmosphere favourable.

Guyana

Two mixed sheep/crop production systems established and evaluated in collaboration with CARDI (Guyana) and MoA (Suriname).

- Availability of inputs for establishment from CARDI and farmer contribution.

Suriname

I. Improving grass production on 50 private farms in collaboration with the MoA.

- Selection by MoA of farms/farmers.

II. Finalize the establishment of a 20 ha. grass multiplication center.

- Support of the MoA.

III. Re-organization of the State Farm

- Support of the MoA (Financial/initial)

IV. Finalization of the establishment of a 50 ha. Dairy Demonstration farm.

- Support of the MoA.
V. Organize a training team with the MoA to train, in collaboration with IICA, Farmers, farm- and technical personnel in dairy production technology developed in Guyana.

VI. Improve Credit channels/lines by training MoA technical personnel in preparation of farm development plans for farmers.

- Availability of technical personnel and training facilities from MoA.
- Agriculture policies supportive of credit institutions.
- Favourable credit atmosphere.

2. Supporting national and regional research institutions related with livestock production

Guyana
(i). Collaboration with CARDI in monitoring and evaluation of the six (6) model farms to finalize dairy production technological package.

(ii). Collaboration with CARDI in the initiation of the next phase (IV) of validation and transfer of the technological package.

- Availability of financial support from Government, local Bank, International funding agencies, etc.

Suriname

I. Collaboration with University of Suriname and other related institutions in research in grass evaluation.

- Availability of Technical personnel from MoA, University of Suriname.
II. Monitoring of performances of dairy farms established by transfer of part of the whole dairy technological package developed in Guyana.

3. Strengthening to the technology generation and transfer offer by related institutions.

Guyana/Suriname.

i. Horizontal brokerage of regional technical personnel in order to share expertise.

ii. On-going in-service training for technical personnel especially from MoA.

iii. Project activities promoted by means of publications, videos, etc. with the purpose of raising the awareness of project activities in the countries. faster links with other institutions and disseminating knowledge of IICA experiences, dairy technical package, etc.

- Availability of financial support, etc from IICA publications center.

- Facilities for printing/publishing in an IICA, Unit, MoA, CARDI, or private.
### Responsabilities During Project Implementation

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<th>ACTION</th>
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<td>Present project phase-end.</td>
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<td>Government, National and Regional concertation process.</td>
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<tr>
<td>Supporting and strengthening the MoA agencies related with technology transfer to farmers.</td>
<td>RIP RIP RP RP PP PP</td>
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<tr>
<td>Supporting National and Regional institutions related to livestock production.</td>
<td>RIP RIP PP PP PR R</td>
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<tr>
<td>Coordination of the strengthening to the technology generation and transfer offered by related institutions.</td>
<td>RI RI PP PP PP PP</td>
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R= RESPONSIBLE.  I= INFORM.  P= PARTICIPANT.
The direct beneficiaries of the project are the Development and Research institutions (NDDP., LVV., MoA, fARMERS Association, CARDI, U.G. and UoS.) by an increase of its technical and managerial capability for promotion of agricultural development. Livestock farmers will receive better service and support in the form of training and transfer of improved technology and farm management.

Per capita consumption of the population Guyana and Suriname, will improve through increased availability of milk and meat supplies.

National and Regional Institutions involved in the development of agri-livestock sector, through the increase in technology available to farmers and technical personnel.

IICA will stand to benefit by being able to support and coordinate individual efforts made by National and Regional institutions as a means of contributing to the reactivation and modernization of agriculture and livestock production in particular.
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13.

**TIME TABLE**

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<td>3. Supporting and strengthening the MoA agencies related with technology transfer to farmers.</td>
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<td>4. Support National and Regional research institutions related with livestock production.</td>
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<td>5. Coordination of the strengthening to the technology generation and transfer offered by related institutions</td>
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### ACTION TAKEN PRIOR TO PROJECT IMPLEMENTATION

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<tr>
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15. MEANS OF VERIFICATION (INDICATORS AND GOALS).

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<td>- 15 Cut and carry and 15 Grazing dairy Units</td>
<td>- Farm Visit reports</td>
<td>CARDI/IICA - Guyana</td>
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<td>established.</td>
<td>and farm evaluation</td>
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<tr>
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<td>- 2 mixed sheep/crop production systems</td>
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<td>- CARDI research on generation of milk</td>
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<tr>
<td></td>
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</table>
SURINAME

- Six (6) Pilot private farms established in different regions.
  - Farm visit reports, and records available. MoA/IICA-Office.

- 20 ha Dairy Demonstration Unit in Operation at State Farm.
  - Records available and farm visit reports. MoA/SEL/IICA - Office.

- 15 ha beefproduction farm established at State Farm.
  - Records and farm visit reports available. MoA/US/IICA-Office.

- Reorganized State Farm in operation.
  - Feasibility study, records and farm visit reports. MoA cq.State Farm/IICA-Office.

- Improved grassproduction on 50 private dairy units.

- Feasibility Study for Livestock production as an alternative for palmoil production.
  - Feasibility Study prepared. IICA/GPVO.

Slaughter-and Meat plant.

- UoS. research on grass evaluation.
  - Facilities in Operation. MoA/External Resources.

  - Data document on research on grass-valuation available for distribution. U.S/MoA/IICA-Office.

GUYANA AND SURINAME

- 10 Field days for Technical personnel, farmers and farm personnel.
  - Records of events - Opinions of participants. MoA/IICA/LFA.
- Three (3) training Courses for farmers and farm personnel in grass production management and health practices.

  Records of events Opinions of participants. MoA/IICA/LFA

- In-service training for at least 15 farmers and/or farm personnel.

  Records of events Opinion of participants MoA/IICA/LFA.

- In-service training for at least 5 technical personnel.

  Records of events Opinion of participants MoA/IICA.

- Horizontal brokerage of regional technical personnel.

  Records of events Opinion of participants MoA/IICA.

- Four (4) Project technicians attended animal production meeting.

  Records of events Opinion of participants MoA/IICA.

- Service- and input organized by Livestock Farmers Association in Operation.

  Livestock farmers Association has:

    - Shops with Agricultural inputs MoA/LFA/IDB/IICA-Suriname.

    - LFA has control on A.I Service and is in operation - records available NDDP/LFA/IICA-Guyana.

    - LFA is sole owner of Cooperation Milk Plant (Suriname) LFA/MoA.

    - LFA is majority share holder of slaughter and meat plant (only Suriname) MoA/SEL/LFA.

- 3 Videotapes on project activities.

- 6 Press releases  Publication in Local Newspaper.  IICA-Office Guyana and Suriname.

16. PREPARATION AND PRESENTATION OF REVISED VERSIONS OF THE PROJECT DOCUMENT.

This is an adjusted and reviewed version from the project document APPROVED in February 02, 1989, MEMORANDUM AC:SR:DR-049 and CODE A2912S1B04100. This document was prepared to respond to the Suriname and Guyana government's requests for the extension of three additional years of IICA's support to the development of the livestock subsector.
EXECUTIVE SUMMARY


2. SUBJECT AREA: Technology generation and transfer. Transferring Technology to Livestock farmers.

3. GEOGRAPHIC SCOPE: Guyana and Suriname.

4. UNIT AND TECHNICAL EXPERT RESPONSIBLE: Suriname / Hector Munoz.

5. SPECIFIC PROBLEM: Low development and production of livestock systems.

6. GENERAL OBJECTIVE: To support the development of livestock production systems.

7. SPECIFIC OBJECTIVE: To support the generation testing, adaptation and transfer technology for Livestock production farmers in Guyana and Suriname.

8. ACTIVITIES:
   - Support and strengthening the MoA agencies related with the transfer of technology to farmers.
   - Support National and Regional research institutions related with Livestock production.
   - Coordination of the strengthening to the technology generation and transfer given by related institutions.

9. RESPONSIBILITIES:
   - IICA - Coordination and technical and economic support.
   - INSTITUTIONS: Technology transfer: NDDP, APHD, LIDCO, SLPCO and LOCAL CREDIT Institutions.
10. RESOURCES US$(000)

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Concluding Date : December 1994.

12. COUNTERPART INSTITUTIONS : NDDP, APHD and CARDI.

13. REMARKS : 

ANNEX I

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ANNEX I.

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TOTAL 810.2 838.2 713.3 2361.7

* See ANNEX III.
** Gasoline free for all IICA cars.
ANNEX II
GUYANA AND SURINAME
GOVERNMENTS PROJECT
EXTENSION REQUESTS.
IICA PROJECT FORM.

(PROJECT TITLE) SUPPORTING THE DEVELOPMENT OF LIVESTOCK PRODUCTION SYSTEMS IN GUYANA AND SURINAME.

PRESENTATION AND JUSTIFICATION

1. IDENTIFICATION

1.1 Project (name) Technology generation and transfer.

1.2 Caribbean Headquarters

1.3 Type of Project:
National Country component of multinational project

-Multinational X Area Caribbean Hemispheric

1.4 Date: Beginning Conclude Duration Three years


1.6 Financed with:
- Regular resources: Quotas US$ Other US$
- External resources: US$ Source

-CATIs: US$

1.7 Date prepared: Responsible party:

1.8 Approval: Memorandum Dated Code

2. ANTECEDENTS

3. SPECIFIC PROBLEM THE IICA PROJECT SEEKS TO SOLVE

4. GENERAL PROBLEM

5. AREA OF CONCENTRATION AND CONTRIBUTION TO ACHIEVING PROGRAM OBJECTIVES

6. TECHNIQUES AND METHODS AVAILABLE FOR SOLVING THE SPECIFIC PROBLEM.
To the IICA Representative in Suriname
Dr. Percy Aitken-Soux
Cultuuratuinlaan
Paramaribo.

Paramaribo, August 6, 1991.

Dear Dr. Aitken-Soux,

The project "supporting the development of livestock production in Suriname" will be closing at the end of this year.

This project has been of very great importance to our Ministry in developing the animal husbandry sector regarding the training of personnel, extension officers, farmers etc. The results of these training and the effects in the field start to show and are remarkable. We do feel that with this project we are on the right track of our animal husbandry development and are very satisfied with the progress of the project.

At the same time we want to express our acknowledgment to the effort and the way that Dr. Hector Munoz has given to the project.

Considering the above mentioned and the positive results that are now starting to show up, we would like to request you to do every effort to extend the project for at least an other period.

cc: Min. LVV
ODVeeteelt

Sincerely Yours,

[Signature]

Mr. G. Goerjesing
Permanent Secretary
Ministry of Agriculture, Animal Husbandry and Fisheries
ANNEX III

SURINAME TECHNICAL STAFF

ASSIGNED TO THE PROJECT
Onderwerp: concerning: Assignment
Ons kenmerk: 120/011.18 Bijlage(n):
ment mr. L. Sampai.

Paramaribo, 2o februari 1991

To: Representative of IICA Office in Suriname
Dr. Percy Aitken-Souw.

We herewith confirm that as agreed, mr. L. Sampai, LVV-executive, is assigned to your staff from June 5 1989, to support the IICA-LVV dairy development project.

cc: Dir. LVV
    HAAD
    Ir. J.K. Hok.

De Onderdirekteur Veeleelt-en Agrarische Ontwikkeling,

Drs. R.G.B.M. BLEUW A JOE.
To Representative of IICA Office in Suriname
Dr. Percy Aitken-Soux

We herewith inform you that as requested by Dr. Munoz, Mr. R. Cicilson and Mr. G. Jairam, both LVV-executives, are assigned to your staff to support the IICA-LVV dairy development project. They are available from februari 26th.

Paramaribo, 28 februari 1991

cc: Dir. LVV
HAAD
Ir. J.K. Hok

De Onderdirecteur Veeteelt- en Agrarische Ontwikkeling,

DRS. R.G.H.M. LIEUW A JOE.
"Improving Dairy Production System in Suriname"

Paramaribo, June 25, 1991

To: Dr. P. Aitken-Soux
the IICA-representative
in Suriname

Dear sir,

In several talks between staff members of the ministry and Dr. Muñoz it became clear that there was a great need in the provision of local junior staff members with an academical education to support the LVV/IICA-project "Improving Dairy Production system in Suriname".

This project which covers the generation and transfer of technology in dairy farming in a production system approach can be of great use to the improvement of the extension service in Suriname.

We hereby grant the permission that Mrs. E. Doelahasori, Lsc. and Mr. H. Valies can participate in the project on a parttime basis respectively for two and three days a week on a year basis.

The exact days will be planned in co-operation with our staff and Dr. Munoz.

Yours sincerely

Ir. G.D. Soerjoesing
Director
MINISTERIE VAN LANDBOUW, VEETEELT & VISSELIJ

Onderwerp: Participation on LVV/IICA project “Improving Dairy Production System in Suriname”

Ons kenmerk : 4967

Bijlage(n):

Paramaribo, August 21, 1991

To: Dr. H. Muñoz
Acting IICA Representative in Suriname

Dear Sir,

It had been brought to our attention that instead of the earlier agreement in which the two junior staffmembers Mr. H. Valies and Mrs. E. Doelahasori would participate on parttime basis in the project, this now will be on full-time basis, as requested by you to Mr. H. Muntslag.

The reason for this is, that for an optimal project and course result more time is needed than was expected.

Furthermore we would like to be informed about the objectives and content of the training.

We hereby grant the permission that the mentioned junior staffmembers participate on fulltime basis and look forward to the objectives and content of the training.

Yours sincerely,

Ir. G.D. Soerjoesing
Director
ALPHABETIC LIST.

1. APHD — Animal Production and Health Division.
2. ATV — Private Television Corporation.
3. CARDI — Caribbean Agricultural Research and Development Institute.
4. CATIE — Tropical Agricultural Research and Training Center.
5. CIAT — International Center for Tropical Agriculture.
6. CHC — Canadian High Commission.
7. CPVO — Common Vegetables Oils and Fats Ltd.
8. IDB — Inter-American Development Bank.
10. LIDCO — Livestock Development Company.
12. NARI — National Agriculture Research Institute.
14. UoS. — University of Suriname.
16. SEL — Foundation Experimental Agriculture.
17. STVS — Governmental Television Corporation.