

*Extension of Technical agreement between Grain SA
(South Africa) CAFMA, CIDETER and INTA (Argentina) in
order to improve crop productivity in South Africa
through the mutual use of South African and Argentinean
technology*

1. Objective

To consolidate a long term common vision between the Republic of South Africa and the Republic of Argentina through a technical agreement, establishing working relationships and cooperation of mutual benefit between Grain South Africa (Grain SA) and Argentine entities from the public and private sectors mentioned below, as strategic partner(s), who can provide know-how, technologies, research, development, equipment and input in order to considerably improve crop productivity.

Parties: South Africa by GRAIN SA, Argentina by INTA (National Institute of Agriculture technology), FUNDACIÓN CIDETER (executants units of CECMA) and, CAFMA (Chamber of Argentinean farm implements manufacturers) represented by the people shown below.

2. Equipment Availability

As one of the most important tools to achieve the goals of this Agreement, the Argentine companies will provide to the selected project platform(s) the agricultural equipment detailed below, which will be lent without cost to the receiver (Grain SA or their members participating in the project). The equipment must be used for the specific work activities agreed upon by the two Parties and for the period of time established according to this agreement.

a) Planters for NO-TILL

- Apache
- Pierobón
- Superwalter (to be finalised).

The machineries for no-till will have the following characteristics, but in certain occasions the specifications could be changed:

- Disc coulter
- Pneumatic seed distributor (seed meter)
- Double disc seeder
- Row spacing: 52 cm
- Fertilization: double side in the row
- Work width: 5 m

b) Header

- Mainero
- Ombú

c) Argentinean sprayers could be included in the project

d) The system of storage grain in plastic bag (grain outloader, bagger, grain cart) could be included in the project.

e) Inoculants and adjuvants should be included after an Argentinean company decided to join the agreement. Rizobacter Argentina S.A producers of Inoculants and Adjuvants will join to the new agreement.

Note: In all the equipment mentioned from Point 1 up to 4, the manufacturer or its wholesaler in South Africa will provide a kit with spare parts without cost to Grain SA or to the farmer(s) if necessary where the machineries will operate, with the



aim of preventing possible inconveniences during general maintenance or breakdowns. In the case that any part, piece or component not included in the original kit of spare parts had to be replaced during the project cycle, the manufacturers or their wholesaler committed themselves in offering technical support, assembling the parts within 3 to 7 days from the moment any problem is reported. If the problem is not solved successfully, the manufacturer or its wholesaler must guarantee to the farmer or Grain SA that the farmer can do the operations on time (Sowing, harvest, etc.).

3. Technical assistance of INTA and South African technicians

INTA will make available its technicians during planning, planting and harvesting if the Coordinating Technical Committee (CTC) requests technical support. In that case, Argentina undertakes to cover the cost of international airfare, while Grain SA will cover accommodation and transportation during their stay in South Africa.

The Argentinian counterpart will make an effort to designate and fund an Argentinian technician to stay in South Africa in order to offer permanent technical support in the three (3) projects or sites involved in this agreement.

Grain SA will fully support, fund and/or coordinate the operations and materials of the entire South African team appointed to implement various work packages in the project. This includes researchers, technicians, input suppliers and farmers. The necessary resources (manpower, time and funds) needed to implement, maintain and monitor the Argentina trials will also be allocated by Grain SA.

4. Basic Trial Guidelines

The trial design and protocol for the project will be discussed and developed during the first project planning meeting between the parties. This protocol must be observed from the beginning of the project, in particular after the last harvest in order to conserve the stubble (or residue) as coverage until the next planting (or sowing).



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5. Project localities and trial sites

Both Parties will agree on the localities and sites where the equipment will work, as well as the inputs to be used according to the working plan defined between them.

The Argentina counterparts will be responsible for the transportation of the equipment to and from the respective study areas. Grain SA agrees to be responsible for the transportation of the equipment to the different trial sites in the study area, as well as for the regular maintenance (according to the manufacturer's specifications) and monitoring. Those activities exclude the action mentioned in spare parts service.

The working plan will indicate in detail, the starting and finishing dates, respectively, of the work in the trial(s), as well as the machineries and input each South African farmer will receive.

6. Use of Equipment

Both Parties will arrange how the planter, or any other equipment or machinery, will be used in order to ensure the appropriate working of the equipment, as well as accurate and precise planting.

7. Farmers Day and awareness activities

Both Parties agreed to organize awareness events --similar to the Farmers Day and/or conference held in March 2014, and holding them before or after the harvest season including the following activities:

- Conference/seminar and lectures about the results of Conservation Agriculture, Precision Farming and No-Till planting in Argentina and South Africa.



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- Conference/seminar and lectures about the results of Conservation Agriculture, Precision Farming and No-Till planting in Argentina and South Africa.
- Static show of equipment – sow (planters), harvest (headers) and post-harvest (grain cart bagger grain outloaders).
- Dynamic equipment demonstration of headers, grain outloaders, baggers, grain carts and planters sowing with crop residues or stubble.

It would be suitable to organize the event very close to the maize harvest season

8. NAMPO Harvest Day

Both Parties agree to perform the same activities during the show and to fulfill the following actions

- Perform a Dynamic exhibition of planting, harvest, sprayer and post-harvest Argentine equipment, and to use a rainfall simulator in the demonstration. A sprayer with fertilizer nozzles can be used.
- Delivering a Technical Lecture
- Mention all the activities in the official programme.

The Parties undertake to first source the costs/funding of equipment (planter, rainfall simulator etc.) transport and hiring/erecting of a booth before the NAMPO event.

9. Access to the official trial sites

Agree with the owners of the farms to allow local or foreign visitors' access to the demonstration or trial sites through timely appointments and arrangements to avoid disturbing the daily activities of the farm. These visitors should be people interested in the practices demonstrated in the trials.



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10. Project Duration

A project cycle of at least four (4) years (3 agricultural campaigns) are recommended. This will provide sufficient time to raise awareness in South Africa's agriculture sector around the Argentina no-till system and to collect enough technical data to make sound recommendations for the successful establishment of the system in South Africa. The project will be ended in June 2017 and/or with a six-month notice of extension or termination.

11. Implementation and management

The implementation of this Agreement will be coordinated by a Coordinating Technical Committee (CTC), in which each of the institutions involved in this Agreement will be represented by one member along with the nomination of an alternate one. Such a committee shall be formed within 30 days following the entry into force (or the date of the signature) of the present Agreement. The Parties will be able to replace representatives but shall provide to the involved Parties a formal notice of the decision with at least 30 days in advance of the replacement's date.

In each one of the projects (i.e. a group of farmers participating in the selected project platform, who act as the user of equipment upon condition of this agreement and identified by Grain SA), a Project Management Committee will be established, overseeing the correct implementation of the Working Plan within each trial, specifically the treatments and execution of the different activities (of each partner) by having frequent meetings prior to critical cropping activities, e.g. planting, farmers days and harvesting.



Grain SA / Argentina Cooperation Agreement



SIGNED PRETORIA ON THIS 17 DAY OF Nov 2014.

[Signature]

ON BEHALF OF **GRAIN SA**

In the presence of the following witnesses:

1. [Signature]

WITNESS

2. [Signature]

WITNESS

SIGNED _____ ON THIS ____ DAY OF _____ 2014.

ON BEHALF OF ARGENTINA

[Signature]

CARLOS SERSALE di CERISANO

Ambassador to South Africa

Embassy of Argentina

In the presence of the following witnesses:

1. [Signature]

WITNESS

2. [Signature]

WITNESS

FUNDACION CIDETER

Rogelio Magnoni
Presidente

