Establishment of Seed processing units under Seed village programme

Introduction:

Seed is the critical input of agriculture production. The availability of quality seed is a critical determinant in increasing the agricultural production. The performance and efficiency of other inputs depends on the availability of quality seed. Certified seed plays an important role in achieving higher yields.

Present Agricultural Scenario

- Supply of quality foundation seed on subsidy is one of the best ways of helping the disadvantaged farmers so that they will produce quality certified seed which in turn improves the production and productivity and improve the economic growth of the farmer.
- The area under cultivation is remains constant; the thrust will have to be on rising productivity per unit of cultivated land.
- To bring more area under cultivation certified or quality Foundation seed must be supplied at affordable prices to the farmers and the produced certified seed the farmers are getting remunerative price over the market price and also the certified seed is available to the farmers at their door steps in time at affordable price.
- The certified seed produced under the scheme is having more demand due to the source of the seed is known and the farmers have confidence on the quality as the seed is produced in the farmers field by the supervision of the departmental officials.

In Andhra Pradesh the Seed Village Scheme is being implemented from 2005 onwards, as the area was increased under the scheme for the last three years there is a need to take care that the produced certified seed is to go into the seed chain. So that the seed under Seed
Village Scheme is being utilized for further distribution under departmental programmes. There is a vast demand for quality seed during the season the seed that is produced under the Seed Village scheme has to be cleaned and graded for supplying to the farmers. For cleaning and grading the seed there is a need of seed processing units which includes pre-cleaners and cleaners having graders and gravity separators.

**Seed Processing Units:**

- The seed that produced will have so many impurities like stones, weeds, trash, other crop seeds etc.
- Seed Processing means cleaning operations that are taken up to the raw produce from the field.
- In this scheme the seed that is produced is going to use as seed purpose that’s why we have to take care of the germination percentage also.
- The advantages of seed Processing units
  - It will clean the seed by removing the trash and stones present in it by pre-cleaners.
  - It will grade the seed by the shape, size etc by removing the shriveled and damaged seed from it.
  - Then by using the gravity separator the other crop seeds will be removed.
  - After processing the seed that is produced is uniform and by keeping the required moisture the germination percentage is also good.

**Project Profile:**

In view of the above, it is proposed to take up processing of the seed produced under Seed Village Scheme and this seed inturn will go into the seed chain.
Vision of the Scheme

- Rising productivity per unit of cultivated land by using the best varieties with known source.
- Supply of seed on subsidy means the average farmers are able to purchase the most critical input in agriculture
- The seed that is produced in the scheme by the farmer will go into the seed chain by supplying of Seed processing units to the farmers / Farmer groups.
- The cost of seed, the critical input will become low

Area of Operation

In Andhra Pradesh it is proposed to take up Seed Village Scheme in an area of 160670 ha. During 2012-13 with a targeted certified seed production of 32.39 lakh tons in various crops like Paddy, Redgram, Greengram, Blackgram, Bengalgram, Groundnut, Castor, Sesamum, Safflower, Jowar, Soyabean & Mesta. It is proposed to supply one seed processing unit to a division where productive seed village plots are there.

Action Proposals

As per the notefile endorsement of C&DA It is proposed to provide 90% subsidy for distribution of Seed Processing units to the farmers. The unit cost of Seed Processing unit will be adopted for different components of the unit like pre-cleaners and cleaners with graders and gravity separators.
To accommodate seed processing and grading to the above crops the following two models are proposed.

<table>
<thead>
<tr>
<th>S. No</th>
<th>Description</th>
<th>Capacity</th>
<th>Price of the unit (Rs.)</th>
<th>Crops processed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Agrosaw Screen Seed Grader Model Junior Mark Iii. Cap Fine Cleaning /Grading 300-400 Kgs/Hr. (Based On Paddy). Complete With Electric Motor Starter &amp; Switch Arrangement.</td>
<td>300 - 400 Kgs/Hr (based on Paddy)</td>
<td>143000.00</td>
<td>wheat, paddy, barley, maize, millets, sunflower, soybean, oil seeds, flower seed, fodder/forestry seeds</td>
</tr>
<tr>
<td></td>
<td>Additional Screen Set 4 G-1. Complete With Electric Motor Starter &amp; Switch</td>
<td></td>
<td>6600.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>V.B. Elevator Built-In To Feed Model G-1.</td>
<td></td>
<td>130000.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Agrosaw Seed Gravity Separator Model G-1. Complete With Electric Motor Starter &amp; Switch</td>
<td></td>
<td>276900.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td>5,56,500.00</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Seed Grader (Air Screen Cleaner type)</td>
<td>100 Kgs/Hr</td>
<td>3,85,000.00</td>
<td>wheat, paddy, barley, maize, millets, sunflower, soybean, oil seeds,</td>
</tr>
<tr>
<td></td>
<td>Gravity Separator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Compact universal digital data logging moisture meter</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Choice will be given to the farmer to select the model.

**Pattern of Assistance Proposed:**

- For calculation purpose, it is proposed to take up the unit cost of the seed processing unit on an average Rs. 4,70,750/-
- Based on the farmer choice the unit cost may be varied.

Total cost of the unit: Rs. 4,70,750/-
Subsidy Proposed from RKVY (90%): Rs. 4,23,675/-
Farmers Contribution (10%): Rs. 47,075/-
**Total Financial Outlay of the Project:**

- It is proposed to supply 500 units of seed processing units one in each division where productive seed village plots are there with an outlay of Rs. 23.53 crores under RKVY during 2012-13 by extending financial assistance of 90 % under RKVY.

(Rs. In Crores)

<table>
<thead>
<tr>
<th>Area Proposed (ha)</th>
<th>Total Cost of the project</th>
<th>Subsidy proposed</th>
<th>Beneficiary contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>160670</td>
<td>23.53</td>
<td>21.18</td>
<td>2.35</td>
</tr>
</tbody>
</table>

**Expected outcome:**

- About 32.39 lakh qtls of the seed for subsidy seed distribution is available.
- Seed with good germination capacity will be available at the door steps of farmers.

**Implementation Methodology**

- Department of Agriculture will implement the project.
- Approved unit cost of the seed processing unit will be adopted for different components proposed under RKVY.
- Approved firms of Seed Processing units will be entrusted for the task.
- Only ISO 9001:2008 certified products will be used.