**Annex 1: Technical Specifications of Guar Seed**

**Projects (OSRO/PAK/901/CHA)**

**1. General information**

*a.* **Requirements by FAO**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Crop common name** | **Crop scientific name** | **Variety name** | **Total quantity requested (Kg)** | **Delivery date** |
| **Guar Seed** | **Cyamopsis Tetragonoloba** | **Guar BR-2017 / or any equivalent variety** | **30 MT** |  |

**Varietal characteristics:**

|  |
| --- |
| **Characteristics parameters** |
| **Guar BR-2017** |
| Variety type (OPV, Hybrid, Self-pollinated) | OPV |
| Days to maturity | 90-110 days |
| Grain/fruit colour | Green Pods/Light Pink |
| Plant height/Length | 120-220 cm |
| Growth habits | Up right/Erect |
| Specific resistance/tolerance to biotic factors (e.g. fungi; bacteria; viruses)\* | Resistant to Alterneria Cucumerina, Cyamopsidis / Xanthomonas  free from all types of insect pests |
| Specific resistance/tolerance to abiotic factors (e.g. low/high temperature, frost, water-logging, low/high soil pH; etc.) | -pH range 6.5-9.5 Drought Tolerant  -Temperature: 15 °C to 45 °C |
| List of countries/areas where the variety is successfully cultivated | Sindh/Punjab, Pakistan |

\*Seed should be free from all types of insect pests

*b.* **Offer by the bidder**

Producer Company :

Country of production*:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Crop common name | Crop scientific name | Variety name[[1]](#footnote-1) | Quantity offered (kg) | Price (PKR) |
| **Guar** | **Cyamopsis Tetragonoloba** | **Guar BR-2017 or any equivalent variety** |  |  |
|  |  |  |  |  |

**2. Technical information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Crop common name: Gourd** | | | | |
|  | **Technical specifications required by FAO\*** | | **Actual characteristics of the seed offered**  **(to be filled by the bidder)** | **Comments** |
| **Varietal purity[[2]](#footnote-2)** | **98% minimum** | **97% minimum** | % |  |
| **Analytical purity[[3]](#footnote-3)** | **98% minimum** | **97% minimum** | % |  |
| **Germination[[4]](#footnote-4)** | **75% minimum** | **65% minimum** | % |  |
| **Moisture content** | **9% maximum/moisture for vapour proof container 8%maximum** | **9% maximum/moisture for vapour proof container 8%maximum** | % |  |
| **Seed Class/Category** | **Certified/** | **Truth in Labelling under the seeds (Truth-In-Labeling rules, 1991)** |  |  |
| **Seed treatment**  **(when treated seed is required, product or products of treatment must be indicated. Treated seed must be dyed an unusual and unpalatable colour)** | **Product Name**  Treated with Carbendazime active ingredients: 50% WP@1-2 gram/kg of seed | | **Product name** |  |
| **Phytosanitary import requirements of the importing country / country of final destination** | **Compliant** | |  |  |

**3. Packaging**

|  |  |  |
| --- | --- | --- |
|  | **Technical specifications required by FAO** | **Actual characteristics of the seed offered**  **(to be filled by the bidder)** |
| Weight of each Pack |  |  |
| Containers are marked with project number, variety name, germination rate, moisture content, weight, date of harvest, seed treatment used. All packages containing treated seeds must be clearly marked: "Not for human or animal consumption" and with the skull and crossbones symbol for poison.  *TS.jpg* | **Certified Seed: For every crop/variety Container are marked with project number, as well as tagged/labeled as per FSC&RD specifications of certified seed along with copy of testing report (04 form):**  **For every crop/variety Containers are marked with project number**  **Truth-In- Labelling Seeds:**  **Each Container shall carry a label with information on it: 1. Lot No.**  **2. Crop/Species.**  **3. Variety.**  **4. Pure Seed %.**  **5. Germination %.**  **6. Other crop seeds %.**  **7. Weed seeds %.**  **8. Inert matter %.**  **9. Month/Year of Production.**  **10. Date of expiry.**  **(Additionally, Import details and Clarence from FSC&RD and Department of Plant Protection)**  **seed treatment used. All packages containing treated seeds must be clearly marked: "Not for human or animal consumption" and with the skull and crossbones symbol for poison** |  |
| Packaging type | **Strong Woven Polypropylene Bag** |  |
| Tags and logos | **Project and Donor marking and "*Not for human or animal consumption*" in both Urdu and English, with skull and crossbones symbol for poison** |  |

**4. Other information (to be filled by the bidder)**

|  |  |
| --- | --- |
| Is the seed consignment accompanied with a PHYTOSANITARY CERTIFICATE[[5]](#footnote-5), fulfilling the phytosanitary import requirements of the importing country/country of final destination? |  |
| Does the offered seed lot contain GMO? |  |
| If yes, please provide a declaration on extent of GMO in the seed consignment |  |

**If the variety offered is not the one required in the specifications, please provide the key varietal characteristics of the seeds offered. These should include:**

|  |  |
| --- | --- |
| **Crop common name** |  |
| **Variety name** |  |
| **Variety type (OPV, Hybrid, Self-pollinated)** |  |
| **Days to maturity** |  |
| **Grain/fruit colour** |  |
| **Plant height** |  |
| **Growth habit** |  |
| **Specify resistance/tolerance to biotic factors (e.g. fungi; bacteria; viruses)** |  |
| **Specify resistance/tolerance to abiotic factors (e.g. low/high temperature, frost, water-logging, low/high soil pH; etc.)** |  |
| **List of countries/areas where the variety is successfully cultivated** |  |

1. If the variety offered is not the one required in the specifications, please provide the key varietal characteristics of the variety offered (see page 4) [↑](#footnote-ref-1)
2. **Varietal purity:** the percentage of the pure seed that will produce plants that exhibit the characteristics of that specific crop variety. [↑](#footnote-ref-2)
3. **Analytical purity:** the percentage of the seed that is of the same crop species but not necessarily the same crop variety.

   * The impurities can include inert matter, weed seed, other crop seed and other varieties, however, within prescribed limits of certified seed.

   [↑](#footnote-ref-3)
4. **Germination:** the percentage of the pure seed with the ability to germinate and that can develop into normal seedlings under appropriate conditions of optimum moisture, temperature and light.

   [↑](#footnote-ref-4)
5. In case of INTERNATIONAL PROCUREMENT [↑](#footnote-ref-5)