



# Punjab Seed Corporation

## **HIRING OF INDIVIDUAL ENGINEERING/TECHNICAL CONSULTANT**

- ❖ PSC at present has four Seed Processing Plants located at Perowal (District Khanewal), Sahiwal, Rahim Yar Khan and Piplan (District Mianwali). These plants were established during the period of mid-seventies to early eighties in which imported machinery and equipment of USA, Germany and Denmark origin were installed. Seed Processing Plants erected at the inception of Corporation have almost completed their operational life. There is need to upgrade and modernize the seed processing system in order to improve the quality of seed of different crops and their proper/controlled storage at the PSC Seed Processing Plants to protect the health of different crops seed.
- ❖ PSC needs the services of a consultant to identify the gaps to make the existing processing facilities up to international level for the production of quality seed and its storage. The consultancy will be short term in terms of Rule 46 (b) of PPRA Rules 2014.
- ❖ Applications are invited from Individual **Engineering Consultant** who have relevant experienced of 10 years with Bachelor of Engineering (Mechanical/ Agriculture Engineering)/Equivalent Engineering.
- ❖ Term of reference and deliverables etc. can be downloaded from the websites of PSC ([www.psc.agripunjab.gov.pk](http://www.psc.agripunjab.gov.pk)).
- ❖ Interested candidates may send their Curriculum Vitae (CVs) at Email address ([imtiazhmed013@gmail.com](mailto:imtiazhmed013@gmail.com)) of Assistant Director Establishment PSC Head Office Lahore by **July 25, 2021**.
- ❖ Shortlisted candidates will be intimated on **July 26, 2021** for **interview dated 27.07.2021 at 11 AM** as address mentioned below.
- ❖ No TA/DA will be given to the candidates.

**Director Administration**  
Punjab Seed Corporation  
4-Lytton Road, Lahore  
Ph.042-99212571-5  
Fax: -042-99212570



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## TERM OF REFERENCE

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INDIVIDUAL ENGINEERING / TECHNICAL CONSULTANT

### **PUNJAB SEED CORPORATION**

4-Lytton Road Lahore

042-99212571-5



**Subject: - ENGINEERING/TECHNICAL CONSULTANT FOR UPGRADATION OF PSC SEED PROCESSING PLANTS**

PSC at present has four Seed Processing Plants located at Perowal (District Khanewal), Sahiwal, Rahim Yar Khan and Piplan (District Mianwali). These plants were established during the period of mid-seventies to early eighties in which imported machinery and equipment of USA, Germany and Denmark origin were installed. Seed Processing Plants erected at the inception of Corporation have almost completed their operational life. There is need to upgrade and modernize the seed processing system in order to improve the quality of seed of different crops and their proper/controlled storage at the PSC Seed Processing Plants to protect the health of different crops seed.

## **2. Objective**

There is need to modernize the seed processing plants in order to improve the processing of seeds of different crops. PSC intends to hire the services of an **Individual Consultant** to ascertain the efficiency and economic analysis, gaps of the existing machinery to improve the seed processing facilities up to the international level for production of quality seed.

## **3. Scope of Consultancy Services (TORs)**

### **Cereal Seed Processing Plants**

- i. Efficiency and Economical analysis of existing Processing Machinery.
- ii. Determine the status of currently installed processing Machinery operational life and its usefulness.
- iii. Determination of replacement of damaged/not repairable machinery of Processing Plants and recommendation / finalization of specifications of the new/modern processing Machinery/Equipment if required.
- iv. Optimization of Processing operation & process, reduction of operational cost, processing losses and improve the quality of the Seed.

- v. Automation of Plant including Weighing, Filling and Stitching operations for Processed Seed.
- vi. Assessment of the existing storage capacity and ease of handling of seed by adopting modern storage infrastructure / silos system and normal stores etc.
- vii. Suggest up-gradation methods and equipment for cob drying operation.
- viii. Assessment existing equipment /machinery of seed treatment at processing plants and alternate proposal for up-gradation with modern equipment/ techniques if any.
- ix. Developing SOPs of the processing operation, use of machinery as well as training of Staff.

#### **A. Ginning and Delinting Section**

- i. Efficiency and Economical Analysis of existing Ginning and Lint pressing machinery.
- ii. Determine the status of currently installed Ginning Machinery operational life and its usefulness.
- iii. Determination of replacement of damaged/not repairable machinery of Ginning factory and recommendation / finalization of specifications of the new /modern Ginning machinery if required.
- iv. Assess environmental effects cost by waste liquid chemicals of delinting plant and dust release in atmosphere alongwith recommended solutions.
- v. Optimization of Ginning operation & process, reduction of operational cost, processing losses and improve the quality of the Seed.
- vi. SOP of the Ginning operation, use of machinery as well as training of Staff.

#### **C. Cold Store Sahiwal**

- i. Efficiency and Economical Analysis of existing Cold Storage.
- ii. Determine the status of currently installed Machinery operational life and its usefulness.
- iii. Determination of replacement of damaged/not repairable machinery of cold storage and recommendation / finalization of specifications of the new /modern machinery if required.
- iv. Preparation of feasibility report to upgrade the cold storage.

#### **D. Tissue Culture Lab**

- i. Efficiency and Economical Analysis of existing Tissue Culture Lab.
- ii. Determine the status of currently installed Equipments/inventory operational life and its usefulness.

- iii. Determination of replacement of damaged/not repairable machinery of cold storage and recommendation / finalization of specifications of the new /modern machinery if required.
- iv. Preparation of feasibility report to upgrade the cold storage.

**E. Energy Load Management System**

- i. Efficiency and Economical analysis of existing energy load management system.
- ii. Determine the load reduction methods by introducing new and latest.
- iii. Determine load reduction method by introducing new and latest new efficient devices.
- iv. Determination of replacement of damaged/not repairable machinery of cold storage and recommendation / finalization of specifications of the new /modern machinery if required.
- v. Assessment of transformation method in case of gas load shedding.
- vi. Preparation of feasibility report to upgrade the load Management System.

**F.** In addition to the above mentioned tasks/works the Engineering /Technical Consultant will also assist the organization in preparing the PC-1.

***Deliverables:***

Submission of a detailed report containing analysis, recommendations and action plan alongwith estimated cost in the light of the TOR's.

**4. Duration of assignment: -**

The duration of assignment is two weeks **(up to 11.08.2021).**

**5. Selection Process: -**

The procurement process will be completed according to rule **46(b) "individual consultant"** of Punjab PPRA Rules 2014 ([www.ppra.punjab.gov.pk](http://www.ppra.punjab.gov.pk)).

**6. Nature of Contract:** Individual Consultancy Contract

## 7. Qualification and Experience Requirements

- Minimum bachelor's (04 years) degree in Mechanical/Agriculture Engineering/ Equivalent Engineering recognized by HEC (Higher Education Commission) institution.
- A minimum 10 Years practical experience including 5 years in a lead role of manufacturing, rehabilitation, management operation and maintenance of seed processing, Ginning factory, Seed Treatment, facilities with national and international organization.
- Knowledge of seed business and seed cycles.

## 8. Evaluation and Marking of the Consultant

The Evaluation and marking of the consultant will be made on the following criteria: -

<b>CRITERIA</b>	<b>MARKS</b>
Academic qualification	20
Relevant Working Experience Up to 10 Year - 10 Marks From 10 to 15 Year - 15 Marks From 15 to 25 Yea -30 Marks	30
Number of similar Assignments carried out. Up to Five - 05 Marks Six and above - 10 Marks	10
Approach and methodology	20
<b>Sub Total</b>	80
Consultancy Fee Demanded and completion time of assignment	20
<b>Total</b>	100