



## **EOI SCHEDULE- I**

# **FOR SUPPLY OF 5 UNITS SEED PROCESSING EQUIPMENT TO A.P.STATE SEEDS DEVELOPMENT CORPORATION LTD.**



**ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION  
LIMITED**

Admn.Office:55-17-2-2 to 4, Fifth floor, Stalin Corporate Building, Road No.2,  
C Block, Industrial Estate, Autonagar, Vijayawada-520007

Fax No.0866-2556804, Ph. No.0866-2556803

**website: [www.apagros.org](http://www.apagros.org). E.Mail: [apagrosdmae@gmail.com](mailto:apagrosdmae@gmail.com).**



**ANDHRA PRADESH STATE**  
**AGRO INDUSTRIES DEVELOPMENT CORPORATION LTD**  
**(A GOVT. UNDERTAKING)**

#55-17-2 to 4, 5<sup>th</sup> Floor, Stalin Corporate, Industrial Estate, Autonagar, Vijayawada – 520007,  
Ph.No.0866-2556803, FAX:0866-2556804  
[E.Mail: apagrosdmac@gmail.com](mailto:apagrosdmac@gmail.com)

**No. Agros/FMD/EOI/AP Seeds/2019-20**

**Dt: 21 -12-2019**

**SHORT EOI NOTICE INVITING SEALED QUOTATIONS**

Sealed Quotations are invited from reputed manufacturers, Distributors, Dealers & Importers for the following items:

Description of Item	Cost of EOI schedule	Pre bid meeting,( at Registered office of the Corporation, Vijayawada)	Sale of EOI Schedules From – to	Last date for submission	Date of opening of Technical Quotations
Procurement, Installation and commissioning of Seed Processing Equipment	Rs.10,000	30-12-2019 at 3:00 PM	23 -12-2019 to 06-01-2020 up to 2.00 P.M.	06-01-2020 up to 2.30 P.M.	06-01-2020 at 03.30 P.M.
For Procurement , Installation and commissioning of Seed Testing Labs Equipment	Rs.10,000		23 -12-2019 to 07-01-2020 up to 2.00 P.M.	07-01-2020 up to 2.30 P.M.	07-01-2020 at 03.00 P.M
For Supply, Installation commissioning, Validation of Lab equipment for Bio Products Testing Labs	Rs.10,000		23-12-2019 to 07-01-2019 up to 2.00 P.M.	07 -01-2020 up to 2.30 P.M.	07-01-2020 at 04.00 P.M

The EOI Schedules and terms and conditions can be downloaded from our website [www.apagros.org](http://www.apagros.org)

Vijayawada

Sd/-  
Vice Chairman and  
Managing Director



**A.P.S. AGRO INDUSTRIES DEVELOPMENT CORPORATION LTD.**

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**website: [www.apagros.org](http://www.apagros.org); E.Mail: [apagrosdmae@gmail.com](mailto:apagrosdmae@gmail.com).**

Ref:Agros/Seed Processing/RKVY/2019-20

Date: 21.12.2019

**NOTICE INVITING TENDER**

Sealed Tenders for Supply, Installation and Commissioning of seed processing, Weighing, Packing & Printing equipment are invited from reputed Manufacturers/Authorized importer for A.P. State Seeds Development Corporation Ltd. required at different locations i.e. 1. Srikalahasti, Chittor district 2. Gannavaram, Krishna District 3. Nelliwada, Vizianagaram district 4. Gandhavaram Vishakapatnam district and 5. Badabanda, Srikakulam district of the AP State Seeds Development Corporation Ltd, Seed Processing plants in Andhra Pradesh.

**Schedule – A:Turn key Job for 4 TPH capacities (on Wheat Basis)Seed Processing line with Gravity separator and Air pollution control systems as detailed below.**

Design, fabrication, Supply, installation, Testing and commissioning of machines with accessories, civil works, material and labor, consisting of Intake hopper with Vibro feeder along with pneumatic slide gate -1 no, Pre-cleaner -1no., Fine Cleaner-1no., Gravity separator-1no., Surge Bins- 3 nos., VB Elevators- 3 nos., One set of Air Pollution equipment, Electrical panel board- 1no., Holding bin- 2 nos, and important spare parts for each machine. All motors/ prime movers should be provided with variable frequency drive (VFD), Installation Layout; Horizontal flow on raised platform – 1 unit

**Schedule – B:Turn key Job for Seed weighing and Packing system- 4 TPH (on Wheat Basis) as detailed below.**

Design, fabrication, Supply, installation, Testing and commissioning of machines with accessories, civil works, material and labor, VB Elevator- 1 no, Automatic weighing and bagging machine – 1 no, Bag closer with conniver – 1 no, Automatic sealing and embossing machine – 1 no, common raised platform – 1 no, Dust expression system – 2 nos, Air compressor – 1 no, Portable bag closer machine – 2 nos, Digital type moisture meter, platform weighing scale - 2 nos, Inkjet printer – 1 no, Electric control panel - 1 no consisting of Automatic weighing on weigh- metric basis, Filling, and **stitching machines** of capacity **0 to 10 kg, and 10-50 kg** with holding bin with two-way discharge -1 no., Feeding elevator -1no., etc.– 1 Unit.

The tender schedules may be obtained from the official website of AP AGROS from 23-12-2019 to 06-01-2020.The bidder must deposit Tender fee of Rs.10000/- (Rupees Ten Thousand only)along with their tender in the form of Demand Draft drawn in favor of A.P.S. AGRO INDUSTRIES DEVELOPMENT CORPORATION LTD., payable at Vijayawada.

The last date for receipt of filled in Tender Schedules at the above Registered Office is 06.01.2020 up to 2.30 P.M. and technical bids shall be opened on the same day at 4.00 P.M. Date of financial bid opening will be intimated to the bidders who are

shortlisted in the technical bid after physical inspection of their manufacturing units/shops.

Vijayawada,  
Dt. 21-12-2019

Sd/-  
VICE CHAIRPERSON &  
MANAGING DIRECTOR

## Contents

<b>TENDER SCHEDULE</b> .....	5
<b>A. Firms Eligible to Participate in Tender:</b> .....	6
<b>B. Data Sheet</b> .....	8
<b>C. General Conditions for submission of Tender:</b> .....	10
<b>D. Special conditions:</b> .....	13
<b>E. Consequences of non-supply and damages:</b> .....	13
<b>F. Other contractual obligations:</b> .....	14
<b>G. Accident relief and Workmen Compensation:</b> .....	14
<b>H. Installation and Commissioning:</b> .....	15
<b>I. Security Measures:</b> .....	15
<b>J. Warranty/ Guarantee:</b> .....	15
<b>K. Certification Process for Payment:</b> .....	15
<b>L. Terms of Payment for turn key:</b> .....	16
<b>M. Special Instructions to the Tenderer:</b> .....	17
<b>N. Technical Evaluation</b> .....	36
<b>ANNEXURE - I</b> .....	18
<b>DECLARATION</b> .....	30
<b>ANNEXURE – II</b> .....	31
<b>ANNEXURE – III</b> .....	33



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**EOI SCHEDULE**

Name of the work: Supply, installation and commissioning of seed processing, Weighing, Packing & Printing equipment at different locations of i.e. 1. Srikalahasti, Chittoor district 2. Gannavaram, Krishna District 3. Nelliwada, Vizianagaram district 4. Gandhavaram Vishakapatnam district and 5. Badabanda, Srikakulam districts of the AP State Seeds Development Corporation Ltd, Seed Processing plants in Andhra Pradesh.

Ref: Tender notice No. APSSDCL/Seed processing/RKVY/2019-20,  
dt: 21.12.2019.

**Preamble:**

A.P.S. AGRO INDUSTRIES DEVELOPMENT CORPORATION LTD., a State Govt. undertaking is interested to procure Seed Processing Machines required for AP State Seeds Dev. Corp. Ltd., under Govt. Programme.

The job is as per general specifications given in schedule A & B. The tendering process will be through separate Technical & Financial bids and the tenderer(s) are to qualify in both the bids for award of the contract. The details and terms and conditions of the tender are as below:

**Schedule A:**

**A. Turn key Job for 4 TPH capacities (on Wheat Basis) Seed Processing line with Gravity separator and Air pollution control systems as detailed below.**

Design, fabrication, Supply, installation, Testing and commissioning of machines with accessories, civil works, material and labor, consisting of Intake hopper with Vibro feeder-1 no, Pre-cleaner -1no., Fine Cleaner-1no., Gravity separator-1no., Surge Bins- 3 nos., VB Elevators- 3 nos., One set of Air Pollution equipment, Electrical panel board- 1no., Holding bin- 2 nos., and important spare parts for each machine. All motors/ prime movers should be provided with variable frequency drive (VFD), Installation Layout; Horizontal flow on raised platform- 1 Unit. As per specifications mentioned in the Annexure -I

**B.Turn key Job for Seed Packing system- 4 TPH (on Wheat Basis)as detailed below:**

Design, fabrication, Supply, installation, Testing and commissioning of machines with accessories, civil works, material and labor, VB Elivator- 1 no, Automatic

weighing and bagging machine – 1 no, Bag closer with conniver – 1 no, Automatic sealing and embossing machine – 1 no, common raised platform – 1 no, Dust expression system – 2 nos, Air compressor – 1 no, Portable bag closer machine – 2 nos, Digital type moisture meter, platform weighing scale - 2 nos, Inkjet printer – 1 no, Electric control panel - 1 no consisting of Automatic weighing on weigh- metric basis, Filling, and stitching machines of capacity 0 to 10 kg, and 10-50 kg with holding bin with two-way discharge -1 no., Feeding elevator -1no., etc. – 1 Unit. As per specifications mentioned in the Annexure -I

#### **A. Firms Eligible to Participate in Tender:**

1. Principle Manufacturer / Authorized importers is eligible for participation in tender with all proofs of relevant experience, turnover, required eligible certifications from Principal Manufacturer under Authorization from Principal Manufacturer.
2. Only Manufacturer / importer who can take-up the work **on turn key basis** at different locations of 1. Srikalahasti, Chittor district 2. Gannavaram, Krishna District 3. Nelliwada, Vizianagaram district 4. Gandhavaram Vishakapatnam district and 5. Badabanda, Srikakulam districts of the AP State Seeds Development Corporation Ltd, Seed Processing plants in Andhra Pradesh.
3. Firms who are having Valid license to manufacture the Seed Processing Equipment from Govt. of India or any State Govt. Departments. Please attach relevant proofs for the same.
4. The Tenderer should have supplied not less than 25 Nos. of 4TPH capacity seed/grains Processing plants Machinery to Govt. Organizations in last five years and necessary proofs and performance certificates from Govt. Authorized Institutions shall be produced.
5. Bidder should have R&D registration from DSIR of Govt. of India for technical expertise and infrastructure facilities.
6. The tenderer should have annual turnover of not less than Rs.30 Crores for each of the last 3 years.
7. In case of filling, weighing and packing machines, the firms must produce the manufacturing license and the relevant certificate from weights & measures Department. (Legal Metrology Dept.)
8. The tenderer should have made supply of single order more than Rs.2.00 Crs in any one of last 5 years and completion certificate to be attached.
9. The tenderer should submit copy of Registration Certificate of the Company and d GST Registration Certificate along with the tender

10. If the tenderer company is an importer of seed processing equipment, then it should also submit copy of its importers license along with the tender
11. The Tenderer/ Manufacturer company should be registered under companies Act 2013 and Manufacturing experience should be more than 10 years.



## B. Data Sheet

<b>DATA SHEET: Information to Tenderers</b>																				
<b>Clause Ref.</b>	<b>Description</b>																			
1	<p><b>The name of the Client is:</b>            The Vice Chairman &amp; Managing Director            Andhra Pradesh State Agro Industries Development Corporation            55-17-2, 5th Floor, Stalin Corporate Building, Industrial Estate, Auto Nagar,            Vijayawada - 520 007, Andhra Pradesh</p>																			
2	<p><b>Selection process:</b>  <b>Evaluation of Tenders will be done by a Tender Committee in three steps:</b></p> <ul style="list-style-type: none"> <li>i. Preliminary Scrutiny - to verify that the proposal conforms to the eligibility criteria</li> <li>ii. Technical Evaluation – to evaluate that the technical proposal meets all the technical evaluation criteria</li> <li>iii. Financial Evaluation- L1 based on the financial bids by the bidders qualifying post technical evaluation</li> </ul>																			
3	<p><b>The Edition of the Guidelines is:</b>            As furnished in the tender schedule</p>																			
4	<p><b>Technical and Financial Bids are requested Separately:</b>            Yes</p>																			
5	<p>The name(s), address(es), and telephone/numbers of the Client’s Official(s) are:            The Vice Chairman &amp; Managing Director            Andhra Pradesh State Agro Industries Development Corporation            55-17-2, 5th Floor, Stalin Corporate Building, Industrial Estate, Auto Nagar,            Vijayawada - 520 007, Andhra Pradesh,            Vijayawada-520007            Ph: 0866- 2556802, 2556803            Email:<a href="mailto:apagrosdmae@gmail.com">apagrosdmae@gmail.com</a></p>																			
6	<p><b>Tender Schedule:</b></p> <table border="1"> <thead> <tr> <th>S No.</th> <th>Event</th> <th>Date and Time</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Availability of Tender schedule</td> <td>From 23-12-2019 to 06-01-2020</td> </tr> <tr> <td>2.</td> <td>Pre-bid meeting</td> <td>30-12-2019; 3.00 PM</td> </tr> <tr> <td>3.</td> <td>Submission of Technical Bid</td> <td>06-01-2020; Up to 2.30 PM</td> </tr> <tr> <td>4.</td> <td>Opening of Technical Bid</td> <td>06-01-2020; at 4.00 PM</td> </tr> <tr> <td>5.</td> <td>Opening of Financial Bid</td> <td>Will be communicated later</td> </tr> </tbody> </table>		S No.	Event	Date and Time	1.	Availability of Tender schedule	From 23-12-2019 to 06-01-2020	2.	Pre-bid meeting	30-12-2019; 3.00 PM	3.	Submission of Technical Bid	06-01-2020; Up to 2.30 PM	4.	Opening of Technical Bid	06-01-2020; at 4.00 PM	5.	Opening of Financial Bid	Will be communicated later
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7	<p><b>The clauses on fraud and corruption in the contract are:</b></p> <p>Performance guarantee produced by the successful applicant shall be forfeited &amp; alternative arrangements shall be made if he does not fulfill the obligation of supply of machinery as per orders / specification / quality and alternative arrangements will be made for procurement of such products</p>																			

<b>DATA SHEET: Information to Tenderers</b>	
<b>Clause Ref.</b>	<b>Description</b>
	<p>and any additional cost incurred in this regard will be recovered from the defaulter</p> <p>The responsibility for quality and quantity of the machinery supplied lies with the supplier only.</p> <p>The technical team of AP Agros shall have the right to inspect the machinery supplied and erected at processing plants. In the event of any components failing to conform to the standards on quality, the client has the right to reject the material out right and the supplier shall replace the rejected materials with fresh stock at his own cost.</p> <p>The Firm (manufacturer / Authorized dealer) shall be liable for black listing &amp; prosecution, if it fails to adhere to the above conditions. In addition to the normal inspection by the technical team of AP Agros in-charge of the work will also be inspected by the VC &amp; MD, AP Agros.</p> <p>The final bill will be released after a certificate furnished by the technical team of AP Agros that the work had been executed as per the standard specified in the tender agreement</p>
8	<p>The tenderer shall submit Technical and Price bids in a separate sealed cover duly super-scribing "<b>Technical /Price Bid</b>" on the covers along with name and address of the tenderer. Both these covers are to be placed in third sealed cover along with covering letter, tender fee&amp; EMD Demand Draft duly super-scribing on the cover as "<b>Tender for supply of Seed Processing Equipment</b>" addressed to <b>The Vice Chairperson &amp; Managing Director, ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED, VIJAYAWADA.</b></p> <p>Validity of Tender shall be 90 days from the date of submission.</p>
9	<p>Those tenderers found technically eligible, their price bids will only be opened for selection of Supplier.</p>
10	<p>Technical evaluation will be based on the criteria, subject to submission of proof of certified copies, as detailed in Section N: Technical Evaluation</p>

### C. General Conditions for submission of Tender:

1. The tender shall be submitted in two parts namely;
  - a) **Technical Bid:** The technical bid shall be submitted as per Annexure –II
  - b) **Price Bid:** The price bid shall be submitted as per Annexure –III. The rate quoted should be inclusive of GST, duties, Cess, Octroi, etc. F.O.R delivery at site. The price bid shall be valid for a period of 3 months.
2. Tenderer, who will submit all the required documents as per ANNEXURE-II for evaluation of technical bid, with relevant proofs will be qualified and short, listed for Opening of Price Bid.
3. The authorized tender committee may be called qualified tenderer for further negotiations.
4. The **ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED** has the discretion either to accept or cancel the lowest bid without assigning any reason thereof.
5. Based on Lowest quoted Price bid, reverse tendering will be called for as per prevailing Government orders and as per directions of the Technical Committee.
6. The Price Bids of only those tenderers whose Technical Bids are accepted, will be opened in their presence. The date will be intimated later.
7. The authorized person representing the firm who is signing on the Tender documents and participating in the Tender shall invariably attach a copy of authorization from the appropriate authority of the firm as per the By-laws of the firm / Company.
8. The tenderer shall submit Technical and Price bids in a separate sealed cover duly super-scribing "**Technical /Price Bid**" on the covers along with name and address of the tenderer. Both these covers are to be placed in third sealed cover along with covering letter, Tender fee& EMD Demand Draft duly super-scribing on the cover as "**Tender for supply of Seed Processing Equipment**" addressed to **The Vice Chairperson & Managing Director, ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED, VIJAYAWADA.** The sealed cover shall be deposited before the due time, in the tender box kept at the Regd. Office of the Corporation at Vijayawada.
9. Earnest Money Deposit (EMD) for an amount of Rs. 2 Lakhs shall be paid by the tenderer in the form of Demand Draft of scheduled commercial bank drawn in favor of **ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED, payable**

**online payment at VIJAYAWADA** along with a covering letter. Technical Bid without Tender fee and EMD will be rejected.

10. The EMD of 2<sup>nd</sup> and 3<sup>rd</sup> lowest tenderers will also be retained till the award of work to the lowest bidder. EMD of other unsuccessful tenderer(s) will be returned on finalization of tenders.
11. The EMD of successful tenderer shall be retained by the Corporation and refunded only after satisfactory completion of the contract. The EMD can be adjusted against performance Guarantee Deposit for successful tenderers. The EMD and performance guarantee deposit will not carry any interest.
12. The successful bidder will enter into Agreement with ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED on non-judicial stamp paper of appropriate value, at his cost and submit along with the acceptance letter within 7 days from the date of communication of acceptance of his bid and perform the obligations as stipulated therein.
13. Validity of tender shall be 90 days from the date of submission. The agreement period will be upto 1 year from the date of agreement and this may be extended with mutual consent. No Escalation charges will be paid for supply of Seed Processing Equipment/Installation and commissioning etc. during the agreement period.
14. Performance guarantee deposit: 10 % of the cost of the equipment, shall be paid by the successful tenderer at the time of agreement, in the form of Demand draft/Bank guarantee of scheduled commercial bank in the name of Managing Director, AP State Agro Industries Development Corporation Limited for a period of 1 year.
15. Performance guarantee produced by the successful tenderer shall be forfeited, if he does not fulfill the obligation of supply of equipment/machinery as per orders / specification / quality. The ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED may make alternate arrangements for procurement of such products and any additional cost incurred in this regard will be recovered from the contractor/defaulters.
16. The responsibility for quality and quantity of the machinery supplied lies with the supplier only.
17. The supplies made, shall be invoiced on GST with Serial No. of invoice printed on it. No invoice other than tax invoice will be accepted. GST if applicable, shall be clearly mentioned in the tax invoice. Rates quoted should be inclusive of all GST taxes, duties, Cess, octroi, etc. and FOR delivery at site.

18. AP State Agro Industries Development Corporation Limited reserves the right to award the tender either in part or full. AP Seeds at its sole discretion and without assigning any reason thereof, reserves the right to accept / reject any or all bids at any stage of the tender process.
19. Information relating to evaluation of proposals and recommendations of Tender Committee concerning awards shall not be disclosed to the tenderers who submitted the tenders or to other persons not officially concerned with the process, until the successful bidder has been notified that it has been awarded the contract.
20. Tender can be rejected if at any stage of the procurement process, it comes to knowledge that any tenderer(s) is involved in any fraudulent practice or misrepresentation of the facts or tried to influence the selection process or indulged in any corrupt activity in competing with others.
21. The firm (manufacturer/importer) shall be liable for blacklisting and further prosecution if they fail to adhere to the above conditions.
22. In case of any dispute or difference arising out of the agreement between the two parties relating to any aspect of the agreement, the parties should attempt to settle the dispute through mutual and amicable discussions. If the dispute is not settled through such discussions, the VC & MD, ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED is the final arbitrator.
23. It is further to be agreed by both the parties that all differences and disputes if not resolved as above, shall be got resolved through the Court of Law of Vijayawada jurisdiction only.
24. The last date for submission of sealed tenders is up to **2.30 P.M. on 06.01.2020**. The opening of technical bid will be done at **4.00 P.M. on the same day** at the Regd. Office of the Corporation.

#### **D. Special conditions:**

1. The tenderer(s) must submit layout design, the specifications of each of the equipment and list of equipment in the process line. Without furnishing this information the tender will be rejected.
2. The generalized specifications of all the equipment are given in Annexure I for **information and guidance** only.
3. The tenderer must specify clearly the time required for the supply, Installation and commissioning of the Seed processing equipment on turn key basis.
4. Liquidated damages will be levied @ 1% of the total value of work per week up to a maximum of 10% in case of default in work completion within the stipulated time.
5. All the technically and commercially eligible tenderer(s) will have to arrange for demonstration of the models offered in the tender within seven days from the date of intimation by APSAIDCL, Vijayawada failing which their bid will be considered as technically ineligible.
6. Should the Corporation require any changes in specifications, the supplier shall endeavor to comply with the Corporation's wishes, subject to fair adjustment of prices and delivery schedule where ever appropriate.
7. A design plan diagram may be kept at each plant before commencement of work along with the specifications.
8. The technical committee of AP AGROS reserves the right of pre delivery inspection at the factory/workshop of the manufacturer/tenderer.
9. The technical team of AP Agros shall have the right to inspect the machinery supplied and erected at processing plants. In the event of any components failing to conform to the standards on quality, the client has the right to reject the material out right before installation and commissioning and supplier shall replace the rejected material with fresh stock at his own cost.
10. If at any time during the term of this contract, the plans of the Corporation change for any reasons, the purchaser shall have the right to terminate or alter this contract by sending 15 days' notice to the supplier by regd. Letter. In respect of such of the material that is complete and ready for dispatch within 30 days of such notice, the Corporation agrees to accept delivery thereof at the contract price and terms.
11. The plant is to be designed and offered on output capacity only.

#### **E. Consequences of non-supply and damages:**

1. All risks of loss, damage or depreciation to goods shall be upon the supplier until the material is delivered at the addresses specified and in accordance with the provisions of the contract.
2. If the supplier fails to deliver any or all the material covered by the contract the purchaser reserves the right, in addition to other legal remedies, to cancel the contract or any portion thereof, and hold the supplier liable for all damage sustained by virtue of said cancellation and failing to perform the contract.

## **F. Other contractual obligations:**

1. The contract shall not be capable of being varied except by written consent by both the purchaser and the supplier and the APStateAgroIndustries Dev. Corp. Ltd. shall not in the absence of specific written acceptance be bound by any provisions of the supplier's quotations / offers etc., which purport to impose conditions at variance with this tender.
2. The supplier shall not sublet or delegate this contract or part thereof without the written consent of the Corporation, but he may, without consent of AP State Agro Industries Dev. Corp. Ltd., purchase such material of standard / suitable quality as he does not normally manufacture.
3. The supplier shall keep confidential all matters concerning this contract and comply with all reasonable security requirements. All drawings, blocks, specifications, manuscripts etc., supplied by this Corporation and all copies thereof shall be returned to the Corporation when their use is terminated. In no event, the supplier shall permit publicity concerning this contract without the prior consent of the Corporation.
4. No undertaking or commitment given by or made by any officer of the Corporation, verbally or in writing shall have effect of affecting this contract in any manner unless it is signed by the officer who has signed the contract.

## **G. Accident relief and Workmen Compensation:**

1. The tenderer shall at all times indemnify the Govt. of A P / AP State Seeds Dev. Corp. Ltd. / APSSDC Ltd against all claims which may be made under the workmen's compensation act or any statutory modifications thereafter or rules there under or otherwise consequent of any damage or compensation payable consequent of any accident or any injuries sustained or death of any workmen engaged in the performance of the work relating to the tenderer.
2. In all cases of personal injury to the workmen employed by a tenderer for this work for which tenderer is liable to pay compensation under Workmen's Compensation Act he shall pay the prescribed medical aid and the fee to the medical officer for issued of C & D forms as prescribed failing which the said fee will be paid to the Medical Officer by the Agros and recovery effected from the tenderer bill.
3. No claim shall be entertained if the same is not represented in writing to the VC & MD AP State Agro Industries Dev. Corp. Ltd. within 15 days of its occurrence.

## **H. Installation and Commissioning:**

All tools, equipment and machinery required for the Installation and Commissioning work must be arranged by the tenderer only.

## **I. Security Measures:**

1. The tenderer(s) shall be responsible for the security of work for the duration of the contract and shall provide and maintain continuously adequate security personnel to fulfill these obligations in coordination with requirement of concerned DM of APSSDC. The requirements of security measures shall include but not limited to maintenance of order on the site, provision of all lighting, guard and all other measures necessary for tight protection of the works within the site and elsewhere on the site, all materials delivered to the site, all persons employed in connection with the works continuously throughout working and non-working period including nights, Sundays & holidays for duration of contract.
2. Separate payment for provision of security services will not be made and its cost shall be deemed to have been included in the offer of the tenderer.

## **J. Warranty/ Guarantee:**

The machines and equipment supplied shall be of 'On-Site warranty' and 'On-Site guarantee'.

## **K. Certification Process for Payment:**

### **a) Equipment/Material receipt certificate:**

Issue of Material receipt note/ Goods Receipt notes at site, jointly by respective District Manager (Seeds), Manager (Engg) of APSSDC and AP Agros Engineer, under joint certification verifying the material received as per specification of proper quality & quantity.

### **b) Trial Run Certificate:**

- i) Minimum 3 trial runs, each for a period of 2 hours will be taken for determining the output capacity of each equipment and for seed processing equipment/line at 10-12 % moisture and 12-15 % impurities of raw seed.
- ii) Conducting sound pollution check through Govt approved agency.
- iii) For quality test check of seed cleaning, the cleaned seed sample will be sent to notified/approved seed laboratory,



All above checks from i) to iii) will be made by respective District Manager (Seeds), Manager (Engg) of APSSDC and AP Agros Engineer, under joint certification.

**c) Commissioning Certificate:**

- i) Checking of correct positioning of each equipment with secured fasteners', permanent and secured electrical connections under joint certification by respective District Manager (Seeds), Manager (Engg.) of APSSDC and AP Agros Engineer, under joint certification.
- ii) Checking of safety and fire hazard aspects under joint certification by respective District Manager (Seeds), Manager (Engg.) of APSSDC and AP Agros Engineer, under joint certification.
- iii) After satisfactory output rated capacity certificate from trial run inspection team.
- iv) After satisfactory lab test report.
- v) Third party inspection to be arranged by bidder from any Agriculture university or other Govt. Seed Corporations for performance Certification.

**L. Terms of Payment for turn key:**

- 70% payment of cost of machines will be made by 'AP State Agro Industries Dev. Corp. Ltd.' immediately after receipt of Goods Receipt certificate.
- 20% payment of cost of machines and 80% payment of installation cost will be made by AP State Agro Industries Dev. Corp. Ltd. after receipt of completion of installation & trial run certificate of the equipment.
- The remaining 10% of machines cost and 20% installation cost will be made by 'AP State Agro Industries Dev. Corp. Ltd.' immediately after receipt of commissioning certificate.

### **M. Special Instructions to the Tenderer:**

1. The tenderer(s) should submit technical brochures / information, users list, etc. along with offers.
2. The tenderer(s) should arrange for demonstration of machinery quoted by them in case required for technical evaluation by the technical committee of ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED Vijayawada
3. The supplier should conduct working demonstration of the machinery and train the working personnel of the APSSDC Ltd for further operation & maintenance of the machinery.
4. List of fast-moving spares and its selling price should also be enclosed. List of accessories which are recommended to be purchased separately for each item should be clearly mentioned in the offer.
5. The capacity of blower, RPM requirement, screening area, cleaning device, fan speed and power consumption should also be clearly mentioned.
6. Seed Processing Machines should be capable of cleaning and grading of various crop seeds, i.e. cereals, pulses, oil, Fiber & Fodders and vegetable seeds, etc. It should be able to remove the impurities like chaff husk, mildew, dirt and undersize and oversize impurities.  
The wheat factor for Processing of different crop seed is given as under:
  - i) Wheat, Maize, Gram – 1
  - ii) Paddy, Pulses, Fodders and Bendy – 2
  - iii) Fiber - 3,
  - iv) Oil and Bold vegetable - 4
  - v) Light vegetable seeds - 5
7. Seed Grader / Pre-Cleaner should be properly balanced to avoid vibration. It should be provided with belt pulleys safety guard, bag holding clamps, inter-changeable screens, and brush drive system/rubber ball system for cleaning screens. Optional: Seed grader should be provided with variable speed controller.

### **N. Other Special Condition:**

- i. The erection of Seed Processing equipment for Nelliwada, Vizianagaram district , Gannavaram Krishna district and Srkalahasti Chittoor district are to be established after completion of agreement.
- ii. The erection of Seed Processing equipment for Gandhavaram vishakapatnam district and Badabanda srikakulam district. May be established in may -2020 after completion of agreement.

## **ANNEXURE - I**

### **Detail Technical Specification of machines**

#### **A) SEED PROCESSING PLANT 4 TPH INPUT CAPACITY (WHEAT BASIS) ON TURN KEY BASIS**

**The seed processing Plant of 4 tons per hour capacity (Wheat Basis) Mounted on Raised Platform Structure suitable to clean seeds of all crops. Specification and qty of machine & Equipment to be supplied, installed and commissioned on turnkey basis are as under.**

#### **1.Intake Hopper with Vibro Feeder along with auto pneumatic slide gate: 1 No.**

Dump Hopper of 1 m<sup>3</sup> Capacity of wheat with auto pneumatic slide gate with heavy-duty grating & Pit Cover. Hopper to be made from CRCA Sheet 2.5 mm thickness. Auto pneumatic Slide gate will shut off the discharge of seed from dump hopper to first bucket elevator in the event of sudden power failure.

**Complete with all standard accessories and features**

#### **2. VERTICAL BUCKET ELEVATOR: 1 Nos.**

##### **Specifications**

V.B. Elevator to feed seeds to Surge Bin of Pre Cleaner suitable for seeds of all crops, with self-cleaning type boot section, and discharge spouts, etc. having following Specification:

Capacity : 6 Ton/hr Wheat Basis

Type : Centrifugal Discharge

Head, boot and leg casing : 3mm, 2.5 mm & 2 mm **using nut bolting**

Sheet metal parts : CNC punched.

Bucket Material : Nylon

Belt : Rubberized canvas belt 5 ply

Belt speed : not more than 1m/sec.

Head and boot pulley : Crowned.

Discharge height : Meter Delivery Height (MDH) – 6:00 to 08:00 AM or As per height of Precleaner Surge bin.

Speed Reduction : By Gear Box of Suitable Gear reduction ratio.

Gear Motor : Gear motor Elecon/Radicon/Powerbuild/Premium make

Elevator Motor : Not More than 2 HP 3Phase, 440 V Crompton/Siemens make.

**Accessories** : Service Platform, Ladder, discharge pipe including all standard features etc.

**Complete with all standard accessories and features**

#### **3:- SEEDS PRE CLEANER : - 01 No.**

Seeds Pre-Cleaner suitable for seeds of all crops having following Specifications. The total available travel length of seeds over perforated screen minimum 500 cm giving

highest opportunity to all seeds to come into contact with screen apertures and thereby very high cleaning and grading efficiency.  
Total available Travel Length of Screens : Minimum 500 cm travel length of perforated screen.

Total screen area : Not less than 4.0 m<sup>2</sup>  
Input Capacity : 4-5Ton/hr. Wheat Basis  
**Travel Length of Screens : Minimum 500 cms**  
**Width of screens : 80cms.**  
**Fan Motor(Top vertical Mounted) : Not more than 5-6 HP 3Phase,440 V Crompton/Siemens make.**  
Sieve Boat Motor : Not More Than 1.5 -2.00HP 3Phase, Crompton/Siemens make..  
**Sieve Boat Construction : Compressed Seasoned ply wood.**  
**Screens Layers : 3 layers screens**  
**Frame vertical punched channels for Structural Stability: 208mm x60 mm x 3mm**  
Sieve Cleaning System : Rubber balls.  
No. of Aspirations : 02 Nos.  
Feed Roller : Round shape with slots for Uniform Feeding  
Auger : 1 no.,.  
Auger R.P.M : 120-125  
Feed Roller R.P.M : 30-35  
Bearing : NTN /SKF  
Deck Oscillation : 300-320  
Air Volume : 5000 -5500 CMH  
Outer Construction : Painted Steel.  
Electric Power Supply : 440V, 3 Phase AC.  
Cyclone with ducting : For Dust collection for outside installation.

**Complete with all standard accessories and features**

: Additional Sieves sets for 5 crops/Varieties.

**4. VERTICAL BUCKET ELEVATOR: 1 No.**

**Specifications**

V.B. Elevator to feed seed to Fine Cleaner surge bin suitable for seeds of all crops, with self cleaning type boot section, and discharge spouts, with small hopper over ground etc. having Same **Specification of V.B. Elevator as mentioned at Sl. No. 2. Expect underground dump hopper and without auto electric locking system.**

**5. SEED FINE CLEANER: 1No.**

Seed Fine Cleaner Grader suitable for seeds of all crops to remove impurities from good seeds etc. having following Specifications. The total available travel length of seeds over perforated screen minimum 560 cm giving highest opportunity to all

seeds to come into contact with screen apertures and thereby very high cleaning and grading efficiency.

**Total available Travel Length of Screens : Minimum 560 cm**

**Total screen area : 8.2 m<sup>2</sup>**

Input Capacity : 4 Ton/hr Wheat Basis

**Fan Motor(Top vertical mounted) : Not More than 7.5-8.00**

HP.3Phase,440 V Crompton/ABB/or  
Equivalent make.

Sieve Boat Motor : Not More than 1.5-02 HP.3Phase,440 V  
Crompton/ABB/or Equivalent make.

**Sieve Boat Construction : Compressed Seasoned ply wood.**

**Screens Layers : 3 layers screens**

**Width of screens : 150cms**

**Frame vertical punched channels for Structural Stability : 208mm x60 mm x 3mm**

Sieve Cleaning System : By rubber balls.

No. of Aspirations : 02 Nos.

**Aspiration chambers : 2 no's separately for pre and final aspiration.**

**Auger : 2no, .**

1<sup>st</sup> Auger R.P.M : 85-90

2<sup>nd</sup> Auger R.P.M : 105-108

Feed Roller R.P.M : 18-20

Bearing Make : NTN /SKF

Deck Oscillation : 300-320

Air Volume : 8000 -8500 CMH

Outer Construction : Painted Steel.

Supply : 440V, 3 Phase AC.

Cyclone with ducting : For Dust collection.

**Complete with all standard accessories and features**

Additional Sieves sets for 5 crops

## **6. VERTICAL BUCKET ELEVATOR: 1 Nos.**

### **Specifications**

V.B. Elevator to feed seeds to Seeds Specific Gravity Separator surge bin suitable for seeds of all crops boot section and discharge spouts etc. having same Specification **as mentioned at Sl. No.4.**

## **7. SURGE BIN (Folding & Nut Bolt Type ) WITH TOP COVER: 3 Nos**

### **Capacity-2.0 MT ( wheat basis)**

Function – For uniform feeding of Seeds to Machine .

Location :- Install Over Seeds Pre Cleaner , Seeds Fine Cleaner and Seeds Sp Gravity Separator one each.

Construction – G I sheet thickness 2 mm hopper bottom and 1.6 mm sides **nut bolted type.**

Legs - Pipe/angular construction with foundation plate.

Discharge gate – Manually operated.

Seed level viewing : through transparent and unbreakable sheet.

Top of the Surge Bin to be covered with open-able cover of 2mm thick GI sheet with hinged door for inspection and cleaning.

**Complete with all standard accessories and features**

## **8. GRAVITY SEPARATOR: 01 No.**

**Capacity 4 TPH ( Wheat Basis )**

The machine should remove impurities and upgrades the material on the principle of specific weight of seeds/grains and make four grades of grains so as to collect and pack separately into the containers. The deck is made of wood. The perforated Stainless/ wiremesh steel screen should be provided at the bottom of the deck for passage of air flow. The diverters should be provided to divert good and middling and low grade and middling into different chutes.

### **Specification:**

Capacity- 04 Tons/hr Wheat Basis

Should be Equipped with 07 Nos of Fan

Air control : Individual adjustable

Type of deck : Rectangular type made of wood. Area of deck should be not less than 3.6 sq meter .

**Deck hanging leaf spring should be Multiple epoxy leaf springs for smooth oscillation of deck.**

Inclination of deck should be Adjustable side slope and end slope.

Electric Drive for Fan =>15 HP, Deck =>2 HP, 3Phase,440 V Crompton/ABB/or Equivalent make.

Material of construction of structure : Mild Steel channels, Angles, and MS sheet and wood Body outer sheet thickness 4mm.

Filter : Stainless steel wire mesh filter fixed in metal frame.

Deck Oscillation : Through Variable Frequency Drive make Allan Bradely/ABB/Siemens

**Complete with all standard accessories and features**

Vibratory Feeder for smooth flowing of seeds.

Additional two decks apart of deck fitted on machine .

## **9 . V. B. ELEVATOR: 1 No.**

### **Specifications**

V.B. Elevator with 2 Way valve either to feed seeds to Holding Bin of Weighing Bagger or Holding Bin of Manual packing suitable for seeds of all crops boot section and discharge spouts etc. having same Specification **as mentioned at Sl. No. 4.**

**10.HOLDING BIN 5 MT (Wheat Basis ) WITH TOP COVER ( Folding with Nut Bolt ): 2Nos.**

**One with manual bagging arrangement and another for weighing and bagging.**

2 -2.5 mm G.I. sheet for sides.

3 -3.5 mm GI sheet for hopper bottom with manually operated discharge gate.

MS pipes for supporting leg with 12 mm thick MS plate for foundation.

Top of the Bin to be covered with open-able cover of 2-2.5 mm thick GI sheet with hinged door for inspection and cleaning.

**B.) Specifications of Seed weighing and packing systems, Bagging machines.:**

**1. AUTOMATIC WEIGHING AND BAGGING MACHINE SOLENOID OPERATED: 2 No.**

Model Must be Approved from Ministry of consumer Affairs Food and Public Distribution, Govt. of India

Range	: 10-50Kg (wheat basis) & 0-10 kg -2 Nos.
Feeding mechanism	: Electromagnetic solenoid operated no need for compressed air .
Power consumption	: Maximum 800 -850 Watt only .
Discharge	: motorized
Programming	: User friendly 3 step procedure
Recipe recall	: User friendly selection by thumbwheel.
Switches	: Large 2cm diameter switches with silver plated contacts.
Display	: Large 7 segment, 7 digit LED display with digit height 25 mm
UPS capability	: Machine should operate on UPS for at least half an Hour in case of power failure. 1 KVA UPS with 3 no, 7AH batteries.
Calibration	: External weighing calibration
Output speed	: 3-5 bags/min depending on bulk density and bag size.
Bag	: Open mouth type
Commodities	: Free flowing granular material such as seeds of all crops

**Complete with all standard accessories and features**

**2. BAG CLOSER WITH CONVEYOR: 1 No.**

Bag closer with conveyor belt: A complete heavy duty conveyorised bag closing machine consists of following parts;

Sewing Head

Stitching Capacity : 600 -650 bags per hour

Electric Motor : Not more than 0.5 HP , 3 Phase, 1440 rpm

Trimming Knives : Installed in the sewer head which cut the thread after a bag is

stitched.

Mounting Column : Rigid M.S. Seamless tubes.

Belt Conveyor :

Belt Width : 300 -350 mm

Conveyor Length : 3000 -3200 mm

Carrying Capacity : 600-650 bags per hour

Electric Motor : 1 HP, 3 Phase, Make Crompton/Siemens

**Gear Box :Speed reduction with suitable gear reduction ratio make Elecon/Radicon/Power Build.**

**Complete with all standard accessories and features**

### **3. AUTOMATIC SEALING& EMBOSING MACHINE**

Principle : Insert type injection moulding (Plastic Seal)

Control : PLC and solenoid operated plunger.

Process : Mould closing-material injection-cooling-seal ejection

Threaded seal size : Dia 14mm,thick 5mm

Provision of Marka : On both sides of plastic seal with monogram of APSSDCL.

Temperature controller: Digital to set plastic material temperature.

Portability : Mounted on four wheels

Bag counting : For number of bags sealed.

Capacity : 150-180 bags/hour.

Overall dimension : 133x61x175 cm (LXWXH)(approx)

Gross weight : 260 kg Approx.

Electrical drive : 0.7kw. 440 v 50 Hz, AC

Power consumption : 2.3kw

Plastic Seal : PP

Monogram : As per Customer Monogram

Power Supply : 440V Three Phase

Geared Motor : For Speed Reduction

**Electric Motor : reputed make 415v, 3phase with starter & Complete with all respect.**

### **4 COMMON RAISED PLATFORM: 1 No.**

Common Raised Platform Structure for mounting pre-cleaner, fine cleaner, gravity separator. Bucket elevators, surgical bin and bagging bin shall be installed on ground level. Made of heavy duty M.S. channels, angle iron, Clear height not to exceed 2 m from ground level. Complete with stair, railing & walking platform. The top sheet of the platform painting non-slippery & easy cleaning type. **Complete in all respect .**

### **5. DUST ASPIRATION SYSTEM: 1 No.**

AIR POLLUTION CONTROL SYSTEM: (Suitable size and capacity as per requirement of site)

**One Air** pollution control system shall be connected to the dump hopper, **of first V.B. elevator only.** The air pollution control system shall be complete with suitable



size Blower ,electric motors of suitable horse power, cyclone with and required length of GI ducting. Air pollution control system shall be efficient.

#### **6.AIR COMPRESSOR: 1 No.**

Air compressors- 225L, airtank capacity.

Air Pressure- 12 Kg/ sq.cm, Electric motor 5 HP of reputed make.

With all accessories and electric to panel board with 50 m long house pressure pipe for cleaning connection.

#### **7. PORTABLE BAG CLOSING MACHINE: 2 Nos**

The portable bag closer B Model suitable for cloth bags stitching and D Model suitable for Gunny Bags stitching with Stitching speed of Minimum 300-350 bags/hr should be supplied of standard make like REVO, so that loosed bag container can be stitched within the plant.

#### **8. Digital Type Moisture Meter: 1 No.**

Construction: Stainless Steel Body

Test Cup Visible made of stainless-steelround

Digital display of Moisture reading

The required sample cup and pressure for selected commodity display for reference to users will be preferred weight of motion meter – 12 kg

Switches for selection of commodity, checking and setting Date/Time, setting Depositor name, and review of stored readings along with their Date, Time and other details

PT 100 Temperature Sensor Wired/Wireless and Bluetooth connectivity to ensure data transfer from

Moisture Meter to computer or other compatible instruments

Moisture Meter must be tested from Govt of India recognized Lab like NPL GOI Humidify logging facility attached to Motion meter.

#### **9.PLATFORM WEIGHING SCALE – India Moisture made with stamping by weighing Measurement legal Metrology Department: 2 Nos ( One Each )**

Stainless steel platform type weighing scale capacity 300 kg and 100 kg each have to be supplied for weighment of grains within the plant manually. The weighing range should be 300kg, and 100Kg with readability 10g, Square pipe frame, overload protection, calibration facility, LCD display have to be provided along with stainless steel balance of reputed make .

**10. Ink Jet Printer** with conveyer having minimum 10 packets per minute speed. Two electronic ink has to be provided by manufacturer for 5 years at the same quoted rate in the tender. The electronic had should be able to print 8 line on paper/ Polithin labels.

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## 11. Electric control Panel With: 1 No.

The panel equipped with main on/off switch, change over switch to allow the machines to be powered either from the generator or main supply, voltmeter, ammeter, phase indicators, motor starters with protective relays and fuses, 2 Nos. 15 Amp sockets of 220V single phase are provided for ancillary equipment/lights etc. Control panel fabricated as per prescribed "CE" norms.

All motors fitted with the machines tropically rated totally enclosed fan cooled type and current protecting. Suitable for 415 V, 50 Hz, 3 Phases, AC Supply, with shared information of operational manual and spare parts, preferably DOL/STAR DELTA starts for all motors.

### Suggested Capacities and quantities of Seed Processing Equipments

A. 4 TPH Process line with gravity separator and treator		
1.	Intake Hopper with Vibro feeder along with auto pneumatic slide gate	: 1 no
2.	V.B. Elevator with motor(hp), starter& its main switch on panel board	: 6 TPH –3 nos.
3.	Pre-cleaner with motor(hp), starter& its main switch on panel board cyclone &ducting	: 5 TPH – 1 No.
4.	Surge bin for Pre-cleaner	: 2 TPH- 1 No.
5.	Fine Cleaner with motor(hp), starter& its main switch on panel board cyclone ducting	: 4 TPH – 1 No.
6.	Gravity Separator 7 fans with motor(hp), starter& its main switch on panel board	: 4 TPH – 1 No.
7.	Surge bin for cleaner, Gravity separator	: 2 TPH – 2 No
8.	Cyclone dust collector – Pre-cleaner One cyclone separator each of pre cleaner & fine cleaner with suitable dia made of M.S. along with cyclone stand & air duct.	: 2nos
9.	Air pollution control system with motor(hp), starter& its main switch on panel board, one hood, ducting, blower and cyclone not more than 5 HP	: Connecting the 150 x 200 mm size pipes made with M.S. sheets of 18 G. Sheets connecting to V.B. elevator dump hopper to the suction blower and connecting to cyclone dust collector.

<b>B. 4 TPH Weighing, Bagging &amp; Packing line</b>	
1	V.B. Elevator with motor(hp), starter& its main switch on panel board : 6.00 TPH –1 No.
2.	Automatic Weighing, Bagging & Sealing Machine(weigh-metric basis) : a) 0 - 10Kg , minimum 4 – 5 Packets per minutes, b) 10- 50 Kg , minimum 3 – 4 Packets per minutes,
3.	Holding Bin& elevator to feed seed to packing machine. One manufacturer of Automatic weigh, bagging & packing should quote along with 3 years AMC, with two way discharge arrangement. VB Elevator- 1 no, Automatic weighing and bagging machine – 1 no, Bag closer with conniver – 1 no, Automatic sealing and embossing machine – 1 no, common raised platform – 1 no, Dust expression system – 2 nos, Air compressor – 1 no, Portable bag closer machine – 2 nos, Digital type moisture meter, platform weighing scale - 2 nos, Inkjet printer – 1 no, Electric control panel - 1 no : 4 T- 1 No.
4.	8 line INK JET electronic label printing machine with conveyer : One, (minimum 10 Packets per minute)
5	Digital type moisture meter : 1 no

<b>Detailed Suggested Specifications of each Machinery for 4 TPH</b>	
	<p><b>1.Intake Hopper with Vibro Feeder along with auto pneumatic slide gate: 1 No.</b></p> <p>Dump Hopper of 1 m<sup>3</sup> Capacity of wheat with auto pneumatic slide gate with heavy-duty grating &amp; Pit Cover. Hopper to be made from CRCA Sheet 2.5 mm thickness. Auto pneumatic Slide gate will shut off the discharge of seed from dump hopper to first bucket elevator in the event of sudden power failure.</p> <p><b>Complete with all standard accessories and features</b></p>

<b>II. V.B. Elevator</b>	
1.	Capacity : 6.0 TPH motor make ABB/Crompton/Texmo/Seiman
2.	DCH : 7 Meters (overall height 8 mts) or making height for surge bin.
3.	Made of : M.S.Sheet Boot section & Head section made with 3 mm C.R.C.A Sheet : Truck size: 560mmx175mmx200mm C.R.C.A. Sheet -2 to 3mm thick M.S.Sheet
4.	Gear Box : Nord or Rotomotive/Bonfiglioli
5.	Motor HP : 1 HP - 3 Phase - 1440 R.P.M.
6.	Bucket Size : 129X121X89mm=0.55 lts. Made of Fiber (PVC)-150MM Pitch of bucket.
7.	Belt size & make : Flat belt size: 140 mm Width, Strength- E.P. 500/4 (5 Play)
8.	Bearing used : NTN / SKF
9.	Belt Speed : 1.2 m./sec
10.	Type of Drive : Worm & Worm wheel

<b>III. Surgbin</b>	
1	Capacity : 2 tons (Wheat) - Made with 16-gauge M.S. Sheet, 1.5" X 1.5"X0.25" thick M.S. Angle, 1.5"X4"X1.5" X 0.25" M.S. channels, suitable for pre cleaner with screw operated gate valve. - 3 nos.
<b>IV. Pre cleaner</b>	
1	Capacity : 5 TPH (Wheat basis) motor make ABB/Crompton/Texmo
2	Feed Roller : Should be Provided
3	Made of : 1.5"x4"x1.5" 0.25" thick M.S.Channels - 2'x2"x0.25" M.S.Angles, 10-gauge M.S.sheet, 16-gauge C.R.sheets.
4	No. of Aspirations : 2 nos
5	No. of Screens : 5 nos
6(a)	Screen Size : Scalping 1000X800mm - 1 No. Top 1000X800 mm. - 2 nos. Bottom 1000 x 800 mm - 2 nos. CNC punching
6(b)	Extra screens for both pre & fine cleaner : The Crops aperture size 1.40 MMR Paddy – fine variety (bottom screen) 1.60 MMR for Paddy – Medium variety (bottom screen)
7	Screen Cleaning Device : Ball Frame (Rubber Balls mechanism)
8	Fan Mounted : Separately or in built Air Volume 5000 cum/hour Fan motor 5 HP to 6 HP Sieve shaking Motor 2 HP (Sieve Boat)
9	Cyclone Dia : 950 mm

<b>V. Fine Cleaner</b>	
1	Capacity : 4 TPH (on wheat basis) 1). 90 % mechanical efficiency, standard single layer of seeds over Scalping & Grading screen will be ensured with no bouncing effect on screen. 2. Cleaning efficiency should be high of the standard requirement for all crops. One aspiration at the point of raw seed feeding & others at good seed out let of the machine.
2	No.of Aspirations : Minimum 2 nos.
3	No.of Screens : 3 layers - 1 Pre aspiration with Augur top middle and bottom 2 Final aspiration with Augur
4	Screen size and Area : 800 X 1500 mm - All screens should be provided with wooden frames & screen area should be 8.20 sqm. Screen frames should have handles. Minimum 40-45 % area of screen should have perforation – CNC punching
5(a)	No. of Screens : 3 nos. - Screens made of 1.66 mm (16 gauge) / 1.00 mm (20 gauge) C.R.Sheet. 1.00 mm slotted & 1.80 mm round hole. Should be provided along with the machine.
5(b)	Extra screens for both pre & fine cleaner : The Crops aperture size 1.40 MMR Paddy – fine variety (bottom screen) 1.60 MMR for Paddy – Medium variety (bottom screen)
	Recommended Size : Middle/Sand layer - 3 pieces - 1 layer (1500 X 800 X 3 nos. Bottom - 3 pieces - 1 layer 1500 X 800 X 3 nos.
5(c)	Slope of Screen : Preferably 4-6 degrees
(c)	Cleaning device- bouncing balls can be used as cleaning device in the machinery. 25 nos. extra bouncing balls are to be provided along with each machine.
(d)	Osilating speed of screen:- constant speed approx:- 320 RPM
(e)	The blower fan should be dynamically balanced, air aspiration system should be provided with air control system for removal of impurities. The air chamber of cleaner should be self cleaning type.
6	Maximum Power required for the cleaner : 7.5 HP inbuilt fan to 8 H.P. 1.5 HP for sieve shaking or sieve boat
7	Fan Air discharge Volume : 8000 cum/hour to 8500 cum/hr.
8	Cyclone dust collector size : 1400 mm dia( minimum)
9	Any Steel foundation frame size X height : 2.08 m X 0.60 m X 1 m Height from ground
10	Arrangements on the fine cleaner to improve its performance such as screen

	dams, Knockers, Oil cloth draper etc.
	<b>VI. Specific Gravity Separator</b>
1.	Capacity : 4 TPH (on wheat basis)
2.	Deck Size : 1200 X 3000 mm
3.	Air Control System : Manual
4.	Variable oscillation length wise : Auto
5.	Side inclination of deck : Manual
6.	Feeding Regulator : To be provided
7.	Power Required : 15 HP& 2 HP
8	Separator duct for fine seed
	<b>VII. Bagging Bin</b>
	Capacity 4 Tonnes : Made with 16 gauge C.R. Sheet body, supporting legs are 1.5"x4"1.5" - 0.25"" thick U channels, 2"x0.25" " M.S. Flat 2"x2" x 0.25" M.S. Angles
<b>Specifications of Seed weighing and packing systems, Bagging machines.:</b>	
	<b>THECHNICAL SPECIFICATIONS(weigh – metric basis)</b>
1	Rated output of bagger : minimum 5-6 packs/min& 3-4 packets/min.
2	Pouch/bag size range : Suitable as per weight
3	Packaging material : Laminates, LDPE mono & co-extruded films, PP, Jute Bag
4	Power supply : Three phase

**Note:** All motors/prime movers should be provided with variable frequency drive.

**DECLARATION**  
**(To be submitted)**  
**ON RS.100/- NON-JUDICIAL STAMP PAPER**

1. I/we have read and understood the Schedules 'A', Data sheets, Annexure-1 and Terms and Conditions of Tender Schedule relevant to "Tender Notice" dated 21.12.2019 and I have submitted the Technical Bid & Price Bid in accordance with the Terms and Conditions of above Tender hall not sell the products being quoted through this tender, at a lower price either to Government / Private in the State of Andhra Pradesh by way of giving any additional trade discount or incentives. If such incident is noticed, the ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED can restrict all payments to such a lower rate apart from initiating penal action.
  
2. The information furnished in the technical bid is true and factual and I clearly understand that our tender is liable for rejection, if any information furnished is found not true and factual, at any point of time.

PLACE:  
DATE:

SIGNATURE OF THE TENDERER  
WITH SEAL

**ANNEXURE – II**  
**TECHNICAL BID**

**(Please read foot notes carefully and enclose attested copies of following)**

- |    |  |   |  |
|----|--|---|--|
| 1  | Tender Reference   | : | No:APAgros/Seed Processing/<br>2019-20<br>Date: 21.12.2019                               |
| 2  | Name of the Manufacturing Company/<br>Importing co with its Regn.No.   | : |  |
| 3  | Manufacturing License No.<br>(Copy to be enclosed)   | : |  |
| 4  | Status of Company  | : |  |
|    | i) Registered<br>Company   | : |  |
|    | ii) Sole proprietorship firm<br>(Name & address of the proprietor)   | : |  |
|    | iii) Partnership firm<br>(Partnership agreement, letter of consent as<br>authorized by other partners to bid for this<br>tender) | : |  |
|    | iv) Private Limited Company<br>(Certificate of incorporation and authorization<br>from CEO if not represented by CEO)            | : |  |
| 5  | Registered Address of manufacturer/<br>supplier  | : |  |
| 6  | Details of EMD paid  | : | DD No/Online payment detail<br><br>Date:<br><br>Bank Name:<br><br>Ref No:<br><br>Amount: |
| 7  | Brief Profile of the firm  | : |  |
| 8  | Import License No.   | : |  |
| 9  | Whether the Company is ISO certified<br>or not (If 'yes' copy to be enclosed)  | : |  |
| 10 | Annual production capacity certificate /<br>Annual import capacity certificate   | : |  |



- 11 Turnover of the above machinery during : a:2016-17  
last 3 years. b.2017-18  
c.2018-19
- 12 GST Regn.No.and their validity(enclose :  
Xerox copies)
- 13 PAN No. (enclose Xerox copies) :
- 14 Audited accounts balance sheet for the :  
last 3 years. (attested copies to be  
enclosed)
- 15 Income Tax assessment Certificate for :  
the last three years  
(attested copies to be enclosed)
- 16 Name of contact person with address & :  
Phone no.
17. Please indicate the equipment quoted in  
the price bid schedule wise.  
(ADD ADDITIONAL SHEETS AS REQUIRED)

**Proforma for Details of the projects executed:**

<b>1. S.No.</b>	<b>2. Year</b>	<b>3. Projects executed</b>	<b>4. Time allotted (Months)</b>	<b>5. Actual time taken (Months)</b>
<b>6. No. of machines in the line b) numbers c) type d) capacity</b>	<b>7. Value of the project in INR(to be attested by the client)</b>	<b>8. Signature of the tenderer</b>		

SIGNATURE OF TENDRER  
WITH SEAL

**ANNEXURE – III**  
**PRICE BID**  
**Schedule A:**

(Only Manufacturers/ Authorized Importers should participate)

**A. Turn key Job for 4 TPH capacities (on Wheat Basis) Seed Processing line with Gravity separator and Air pollution control systems as detailed below.**

Design, fabrication, Supply, installation, Testing and commissioning of machines with accessories, civil works, material and labor. consisting of Intake hopper with Vibro feeder-1 no, Pre-cleaner -1no., Fine Cleaner-1no., Gravity separator-1no., Surge Bins- 3 nos., VB Elevators- 3 nos., One set of Air Pollution equipment, Electrical panel board- 1no., Holding bin- 2 nos, and important spare parts for each machine. All motors/ prime movers above 5HP should be provided with variable frequency drive (VFD),Installation Layout; Horizontal flow on raised platform – 5 units

**B.Turn key Job for Seed weighing and Packing system- 4 TPH (onWheat Basis) as detailed below:**

Design, fabrication, Supply, installation, Testing and commissioning of machines with accessories, civil works, material and labor,consisting of Automatic weighing on weigh- metric basis, Filling, and **stitching machines** of capacity **0 to 10 kg, and 10-50 kg** with holding bin with two-way discharge -1 no., Feeding elevator -1no., etc. – 5 Units.

S. NO.	DESCRIPTION OF ITEM	Q ty	RATE QUOTED for one line / equipment				
			Srikalahasti	Gannavaram	Nelliwada	Gandhavaram	Badabanda
			Rs.	Rs.	Rs.	Rs.	Rs.
A	<b>4 TPH Seed Process line, turn key jobs i.e.</b> Design, Supply, Testing, installation and commissioning with accessories, material and labor. <u>Installation Layout:</u> Horizontal flow with raised platform suitable for multi seeds, Consisting of following equipment at i to viii with electrical motor with variable frequency drive, accessories, switches and wiring, Electrical panel board, etc. complete, at each location with all civil and fabrication work for machinery installation.	1					
	1. Intake Hopper with Vibro Feeder along with auto pneumatic slide gate- 1 no						
	ii) V.B. Elevators, 6 TPH – 3 Nos						
	iii) Surge bins – 2 T capacity – 3 Nos						
	iv) Pre-cleaner 5TPH – 1 No						
	v) Fine - cleaner 4TPH – 1 No						
	iv) Gravity Separator 4TPH – 1 No						
	v) cyclone dust collector – 2 no.						
	vi) Air pollution control system with ducting, blower, cyclone and prime mover – 1 set						
	vii) electrical panel board						
	viii) spare parts (list to be enclosed) fast moving spares for 1 year						
B	Installation and commissioning charges for equipments as above from i) to x and with all civil and fabrication work for machinery installation	1					

S. NO.	DESCRIPTION OF ITEM	Qty	RATE QUOTED for one line / equipment				
			Srikalahasti	Gannavaram	Nelliwada	Gandhavaram	Badabanda
			Rs.	Rs.	Rs.	Rs.	Rs.
C	<b>4 TPH Weighing, Bagging &amp; Packing line-weigh metric basis (Turn key Jobs i.e. Design, Supply, Testing, installation and commissioning with accessories, material and labor) suitable for multi seeds, Consisting of following equipment i-xii with electrical motor, starter, accessories, switches and wiring, Electrical Panel Board etc. complete, at concerned location along with civil works</b>	1					
	1.VB Elivator – 1 no						
	ii. Automatic weighing and bagging machine-1 no						
	iii. Bag closer with conniver-1 no						
	iv. Automatic sealing and embossing machine-1 no						
	v. common raised platform-1 no						
	vi. dust expression system-2 nos						
	vii. Air compressor-1 no						
	viii. portable bag closer machine-2 nos						
	ix. digital type moisture meter-1 no						
	X . platform weighing scale-2 nos						
	xi. inkjet printer-1 no						
	xii. Electric control panel-1 no						
	spare parts (list to be enclosed) fast moving spares for 1 year						
D	Installation and commissioning charges for equipments including civil work as above	1					

(Add additional sheets as required)

Note: 1. The rates may be quoted for all the above equipment individually and for Installation and commissioning separately for **turn key Job**.

2. All motors/prime movers above 5HP should be provided with variable frequency drive.

1. The rates quoted shall be inclusive of GST Duties/cess/octroi,loading, unloading, installation and commissioning including electrical appliances etc. FOR delivery at site.

2. The rates quoted in the Price Bid should be firm and valid up to a period of 3 months. The AP Agros will not entertain any upward price revisions during the agreement period. The validity period can be extended on mutual consent of both the parties.

3. The rates and units shall not be over written. The rates and units shall always be both in figures and words.

Date

SIGNATURE OF APPLICANT WITH SEAL

### Technical Evaluation

Technical evaluation will be based on following criteria, subject to submission of proof of certified copies:

1	The Tenderer should have supplied not less than 20 Nos. of 4TPH capacity or more seeds/ grain Processing plants to Govt. Organizations in last five years and necessary performance certificates from Govt. Authorized Institutions shall be produced.
2	Bidder should have R&D registration from DSIR of Govt. of India for technical expertise and infrastructure facilities.
3	The tenderer should have annual turnover of not less than Rs.15 Crores in any of the last 3 years.
4	In case of filling, weighing and packing machines, the firms must produce the manufacturing license and the relevant certificate from weights & measures Department. (Legal Metrology GOI Dept.)
6	Whether the firm/Authorized Dealer has Valid manufacturing license to manufacture/import Seed Processing Equipment.
7	Proof of having enough no. of technical teams with experience of design /installation and for attending the after sales service.(Details about names of persons / experience/ qualifications).
8	Power consumption per ton of cleaned seed in line
9	Proof of test certificate for the machines previously supplied from any Government of India Testing Organization like FMTTI/CIPHET.
10	Mechanism of feeding arrangement
11	Mechanism of screen cleaning device.
12	Air flow qty and RPM of Air fan.
13	Capacity of cyclone dust collector
14	Type of material and gauge of screen with percentage of perforation area.
15	Type of material and gauge of sheets used for fabrication of machine
16	Time frame for supply, erecting and commissioning within (60 days)

17	Value of single order more than Rs.2.00 Crs in any one of last 5 years. With completion certificate.
18	Time frame within which after sale service will be provided. 24*7 for 3 year of defect liability period.
19	No. of above machines supplied during the last 3 years on turnkey basis with value of each project, time allotted, actual time taken, no of machines in each processing line and its capacity; to be supported by the attested certificates from the clients.
20	A). Warranty period B). Guaranty period. The repairs & replacements if any during guarantee period should be on site.

**Note:**

1. The motors/prime movers should be provided with variable frequency drive where ever necessary/insisted by the Corporation, for energy saving solutions if motor is more than 5 HP capacity.
2. All the columns of the application form shall be duly, properly and exhaustively filled in.
3. All corrections if any must be signed by the applicant before submission itself. For filing faulty information, the application is liable for rejection. The tenderer should sign on each and every page of Tender Schedule and on all the additional documents submitted along with Tender Schedule.
4. The applicant can enclose additional information, if any, relevant to the application separately.

**DATA SHEET**  
**Information to Tenderers**

Clause Ref.	Description	
1	<p><b>The name of the Client is :</b></p> <p style="text-align: center;"><b>ANDHRA PRADESH STATE AGRO INDUSTRIES DEVELOPMENT CORPORATION LIMITED</b></p> <p style="text-align: center;">Admn.Office:55-17-2-2 to 4, Fifth floor, Stalin Corporate Building, Road No.2, C Block, Industrial Estate, Autonagar, Vijayawada-520007 Fax No.0866-2556804, Ph. No.0866-2556803 <b>website:</b> <a href="http://www.apagros.org">www.apagros.org</a>. <b>E.Mail: <a href="mailto:apagrosdmac@gmail.com">apagrosdmac@gmail.com</a></b>.</p>	
2	<p><b>The Method of selection is :</b></p> <p>Technical Eligibility &amp; Financial Eligibility</p>	
3	<p><b>The Edition of the Guidelines is :</b></p> <p>As furnished in the tender schedule</p>	
4	<p><b>Technical and Financial Bids are requested Separately:</b></p> <p>Yes</p>	
5	<p><b>The name(s), address(es), and telephone/numbers of the Client's Official(s) are:</b></p> <p><b>District Manager (Seeds), APSSDC Ltd Panagal (PO) Srikalahasti Ph.No.08578-230076 Mobile No.9849908749</b></p> <p><b>District Manager (Seeds), APSSDC Ltd Beside Raithu Bazar, Eluru road, NH-16 Gannavaram Mobile No.</b></p> <p><b>District Manager (Seeds), APSSDC Ltd Nelliwada, Srikakulam Dist. Ph.No.089222241 Mobile No.9849908741</b></p> <p><b>District Manager (Seeds), APSSDC Ltd Gandhavaram (V) Chadavaram (MD) Visakahapatnam Dist. Ph.No. Mobile No.</b></p>	

	<p><b>District Manager (Seeds), APSSDC Ltd Badabanda (V) Srikulam Dist. Ph.No.08942-223012 Mobile No.9849908740</b></p>	
6	<p><b>The clauses on fraud and corruption in the contract are:</b></p> <p>Performance guarantee produced by the successful applicant shall be forfeited &amp; alternative arrangements shall be made if he does not fulfill the obligation of supply of machinery as per orders / specification / quality and alternative arrangements will be made for procurement of such products and any additional cost incurred in this regard will be recovered from the defaulter</p> <p>The responsibility for quality and quantity of the machinery supplied lies with the supplier only. The technical team of AP Agros shall have the right to inspect the machinery supplied and erected at processing plants. In the event of any components failing to conform to the standards on quality, the client has the right to reject the material out right and the supplier shall replace the rejected materials with fresh stock at his own cost. The Firm (manufacturer / Authorised dealer ) shall be liable for black listing &amp; prosecution, if it fails to adhere to the above conditions. In addition to the normal inspection by the technical team of AP Agros incharge of the work will also be inspected by the VC &amp; MD, AP Agros.</p> <p>The final bill will be released after a certificate furnished by the technical team of AP Agros that the work had been executed as per the standard specified in the tender agreement</p>	
7	<p>The information on the outer envelope should also include: Tender for supply of Seed Processing Equipment. Validity of Tender shall be 90 days from the date of submission.</p>	
8	<p>Those tenderers found technically eligible there price bids will only be opened for selection of Supplier.</p>	
9	<p><b>technical evaluation will be based on following criteria, subject to submission of proof of certified copies :</b></p>	



<b>10</b>	The Tenderer company should be registered under companies Act 2013 , it should not be after 2009. Proof to be attached .	
<b>2</b>	The Tenderer should have supplied not less than 25 Nos. of 4TPH capacity or more seeds/ grain Processing plants to Govt. Organizations in last five years and necessary performance certificates from Govt. Authorized Institutions shall be produced.	
<b>3</b>	Bidder should have R&D registration from DSIR of Govt. of India for technical expertise and infrastructure facilities.	
<b>4</b>	The tenderer should have annual turnover of not less than Rs.30 Crores in any one of the last 3 years.	
<b>5</b>	In case of filling, weighing and packing machines, the firms must produce the manufacturing license and the relevant certificate from weights & measures Department.	
6	Whether the Manufacturer/Authorized Dealer has Valid manufacturing license to manufacture/import Seed Processing Equipment Minimum 10 year old.	
7	Proof of having sufficient no. of technical teams with experience of design /installation and for attending the after sales service.(Details about names of persons / experience/ qualifications).	
8	Power consumption per ton of cleaned seed in line	
9	Proof of test certificate for the machines previously supplied from any Government of India Testing Organization.	
10	Mechanism of feeding arrangement	
11	Mechanism of screen cleaning device.	
12	Air flow qty and RPM of Air fan.	
13	Capacity of cyclone dust collector	
14	Type of material and gauge of screen with percentage of perforation area.	
15	Type of material and gauge of sheets used for fabrication of machine	

16	Time frame for supply, erecting and commissioning within (60 days )	
17	Value of single order more than Rs.2.00 Crs in any one of last 5 years. With completion certificate.	
18	Time frame within which after sale service will be provided. 24*7 for 3 year of defect liability period.	
19	No. of above machines supplied during the last 3 years on turnkey basis with value of each project, time allotted, actual time taken, no of machines in each processing line and its capacity; to be supported by the attested certificates from the clients.	
20	A). Warranty period B). Guaranty period. The repairs & replacements if any during guarantee period should be on site.	