

Rajasthan State Seeds Corporation Ltd.



***e-Tender Document
For Rate contract
For the Supply Of Seed processing
Machines and other Machinery
On Turnkey basis***

Last Date for Submit/Upload of e-Tender: 20.12.2017 by 18.00 hrs.

Date of opening of e-Tender : 21.12.2017 at 14.00 hrs.

Pant Krishi Bhawan, IIIrd Floor, Janpath, Jaipur-302005

Telephone No.: 91-141-2227944, 2227514 Fax No.: 91-141-2227845

PK

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RAJASTHAN STATE SEEDS CORPORATION LIMITED

Pant Krishi Bhawan, IIIrd Floor, Janpath, Jaipur-302005
Telephone No.: 91-141-2227944, 2227514 Fax No.: 91-141-2227944
CIN - U75132RJ1978SGC001781 e-mail - rajseedsproc@gmail.com

F3/Processing/RSSC/2017-18/ 25100

Dated: 16.11.17

NOTICE INVITING e-TENDER

Rajasthan State Seeds Corporation Ltd. Invites e-tenders for Rate contract in prescribed format from reputed manufactures/ suppliers having relevant experience of at least five years for supply, installation and commissioning of following items on turn-key basis at anywhere in Rajasthan during the year 2017-18 and 2018-19.

S.No	Name of Machines	Quantity	Earnest Money (Rs.)	Tender fee (Rs.) along with 18% GST	Processing Fee (Rs.)	Minimum annual turnover of tenderer (Rs. Lakh)
1	5.0 TPH capacity seed processing machine-lines complete on turnkey basis	Nine	900000	1770.00	1000.00	500.00
2	Electronic road weigh bridge of 60 MT capacity	Five	100000	1770.00	1000.00	500.00
3	Electronic D.G. Set, 60 KVA	Two	40000	1770.00	1000.00	500.00
4	Automatic Weighing and packing machine along with plastic seal forming and sealing machine	Two	40000	1770.00	1000.00	500.00
5	Vegetable Unit machine	One	80000	1770.00	1000.00	500.00

- This tender shall be processed through E-procurement portal of Govt. of Rajasthan i.e. www.eproc.rajasthan.gov.in and various details can be seen/downloaded from this website, details are also available on corporation website www.rajseeds.org and Agriculture department website www.krishi.rajasthan.gov.in. The last date for downloading the tender document and uploading of duly filled tender form shall be 20.12.2017 up to 18:00 Hr. The tender fees and earnest Money shall only be accepted by way of demand draft in favour of Rajasthan State Seeds Corporation Limited payable at Jaipur and demand draft of processing fees in favour of RISL payable at Jaipur and said demand draft should be physically deposited at RSSC, head office Jaipur, up to 11:00 Hr. on 21.12.2017 The technical bid shall be opened at 14:00 Hr. on 21.12.2017 in the presence of desirous tenderer(s). The financial bids of the technically qualified firm shall be opened subsequently for which date and time shall be intimated separately.**
- Tenders, both Technical bid and financial bid should be submitted strictly as per instructions to tenderers given in part A of the tender document.
- Tender not accompanied with requisite Tender Fees, Processing Charges, EMD and not submitted as per instructions contained in the tender document are liable for rejection.
- Separate tender form is required to be submitted for each item.
- The above quantities are indicative & order may be placed for the whole or part quantity as per requirement.
- RSSC reserves the right to accept or reject any one or all the tenders in part or full without assigning any reason.

UBN No.-----



Managing Director

PART - A



Section-1

INSTRUCTIONS TO TENDERERS

1. The tenderers are advised in their own interest, to carefully read the tender document and understand their purport and unless the tenderer specifically states to the contrary in respect of any particular clause, it shall be presumed that he accepts all the terms & conditions as have been laid down in the tender documents.
2. ***Tender must be submitted in the tender form provided in section-iii of 'part A' of the tender document. The tenderer may attach additional sheets to the tender form wherever detailed description is necessary.***
3. ***Erasure or alteration in the bid documents should be avoided. Modification, erasure, or alteration, if any, should bear the signatures of the person signing the bid along with stamp of the tenderer. Any modification not so signed shall be ignored and the whole tender may be treated as void on this ground.***
4. In case the specifications of any offered equipment deviates from the specifications laid down in the tender form, the tenderers should describe as to in what respect and to what extent the equipment offered by them deviates from the specifications, even though the deviations may be minor.
5. The tenderers should enclose with their offers descriptive catalogues, leaflets and engineering drawings supplementing the description and point out any special features/advantages of their equipment quoted. All the literatures, leaflets engineering drawings etc. should be in English or accompanied by English translation in case the language is other than English. This should be, strictly to enable objective evaluation of offers.
6. Tenderers should also enclose with their offers the test reports from any recognized agency with respect to their equipment. In case the equipment does not have any test reports the tenderers may furnish the list of actual users of the equipment for reference along with their contact person & telephone nos.
7. The tenderer should indicate the following separately in summary form:
 - (a) Accessories and fittings which are standard with the equipment as well as such of the accessories/fittings which though not considered standard, are included in the scope of supply and included in the bid price.
 - (b) Accessories/fittings which may occasionally or frequently be required but have been specifically excluded by the tenderer from the scope of supply and should quote their price separately.
8. The list of spare parts with cost of individual item required for various equipment should be submitted separately along with the offer. It should include such quantity of spare parts as is required for smooth running of the equipment for annual maintenance contract.
9. **QUOTATION OF PRICES**

Tenderer shall give a final and net per unit price free from all escalations. Request for change in price will under no circumstances be considered after opening of the tender. Price quoted shall be FOR destination including supply, installation and commissioning at site, inclusive of all taxes, anywhere in Rajasthan. ***For the purpose of comparison and evaluation of bids the tenderers are required to quote their rate strictly in the manner as indicated in the Financial bid***

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- 10. Printed Terms & Conditions of Tendering Firm.**
Printed terms & conditions of the bids shall not be considered and the same shall not be binding or become part of the contract unless any of such terms is specifically laid down by the tenderer and accepted by the Corporation in writing. Except to the extent stated above, it will be deemed that the printed terms & conditions of the tendering firms have been rejected by RSSC.
- 11. Earnest Money**
Tenderers are required to deposit tender fees and earnest money with the Corporation as indicated in notice inviting tender by means of Demand Draft payable at Jaipur, in favour of Rajasthan State Seeds Corporation Ltd. and demand draft of processing fees in favour of RISL payable at Jaipur. **CHEQUES WILL NOT BE ACCEPTED.**
- 12. Submission of tender**
The tender should be uploaded as per the requirements of web procurement portal of Govt. of Rajasthan i.e. [www .eproc. rajasthan.gov.in](http://www.eproc.rajasthan.gov.in)
- 13. Opening of Tender:**
The tenderers or their authorized representatives may attend at the time of opening of the tender along with requisite EMD, Tender Fee, Processing fee and other documents as mentioned in NIT and Check-list.
- 14. Validity of Offers**
The tenderers shall keep their offers open for acceptance for a period of 90 days from the date of opening of the tender. In case the last date happens to be a holiday, offers should remain open for acceptance till the next working day. Tenders with shorter validity, immediate acceptance and any such similar conditions are liable to be rejected.
- 15.** The Indian agents bidding on behalf of any Foreign Company should be registered with DGS&D and the proof of registration should be furnished with offer. The offer will not be accepted, if proof is not furnished.
- 16.** One agent cannot represent two different foreign suppliers or quote on their behalf in a particular tender.



SECTION-II

GENERAL TERMS & CONDITION OF THE BID

1. Transfer and subletting

The supplier shall not sublet, transfer, assign or otherwise part with the contract to any person, firm or Company directly or indirectly, in full or any part thereof without the previous written permission of the Corporation.

2. Indemnity

The supplier shall at all times indemnify the Corporation against all claims which may be made in respect of the said equipment for infringement of any right protected by talent, registration of design or trade mark provided always that in the event of any claim in respect of an alleged breach of a patent, registered design or trade mark being made against the Corporation, he shall notify the supplier of the same and the supplier shall be at liberty, but at his own expense, to conduct negotiations or prosecute any litigation that may arise there from. In the event of the Corporation becoming or liable to pay any amount on any aforesaid account, the supplier shall make good the amount so payable and the expense incurred in that behalf.

3. Security deposit

The supplier shall furnish security deposit with the Corporation to the extent of 5% of the contract value towards security for the due fulfillment of the conditions of the contract at the time of submission of duly signed Agreement. The security deposit shall be furnished By means of demand draft payable at Jaipur in favour of Rajasthan State Seeds Corporation Ltd. The security deposit shall be refunded after successful completion of the Warranty period.

4. DELIVERY, INSTALLATION & COMMISSIONING

The supplier shall undertake to complete the supply of equipment within 45 days from the date of placing the purchase order. However, the goods may be dispatched early also for which no extra benefit or relaxation in payment terms shall be allowed to the suppliers unless otherwise specifically mentioned in the purchase order. The date of stock entry by the consignee unit of RSSC shall be construed as date of receipt of the equipment for the purpose of calculating the delivery period/ delay penalty. Place of delivery is RSSC (various offices of RSSC as mentioned in NIT or Purchase order). Location of supply may change.

The supplier shall undertake to complete the installation and commissioning of equipment/machine within 30 days from the date of receipt of equipment/machine. No extension of period beyond 30 days from the date of receipt of equipment/machine shall be allowed for installation and commissioning of equipment/machine unless it is due to non preparedness of site on part of RSSC.

In this manner total time for supply, installation and commissioning shall not exceed 75 days.

BY

5. Validity period

The validity period of contract shall be valid for financial year 2017-18 & 2018-19.

6. Agreement:

The successful tenderer shall, within 15 days of having been upon by notice to do so, be bound to execute a Formal agreement as per the Format given in Section- V of Part 'A' of the tender document. Any variation in the terms & conditions as may be suggested by the tenderer and accepted by the Corporation will be specifically mentioned in the agreement. The cost of stamping for agreement shall be as per applicable Govt. rules. The cost of stamping shall be borne by the successful tenderer.

7. Refund of Earnest Money:

A. Unsuccessful Tenderers:

In case of unsuccessful tenderers who do not withdraw their offers before the receipt of final decision, the earnest money, shall be returned without interest after the finalization of tenders or after expiry of validity period of the respective offer whichever is earlier, by means of returning the original instrument submitted by the tenderer.

B. Successful Tenderers:

After the successful tenderers have completed formalities as stated in Clause-3 Section-II Part 'A' the earnest money deposit shall be adjusted in Security deposit.

8. Forfeiture of Earnest Money:

In the event of a tenderer, whose tender is received within time, withdraws his tender before the receipt of the official decision or a tenderer whose tender has been accepted fails to (1) execute the contract (ii) furnish Security deposit after such acceptance is made known to him, the earnest money deposited by such tenderer shall be forfeited and in the later case the acceptance of the tender shall also be revoked.

9. Repeat Order: The validity of the Contract period shall be extended to a period of three months as per RTPP act and rules. It shall be open to the Corporation to place repeat order with the supplier on the same rates and terms and conditions for quantities as per provision of RTPP act and rules.

10. INSPECTION

The supplier shall give at least 05 days to the Corporation to offer inspection of the equipment / machine. The Corporation or its authorized nominee may carry out inspection at the supplier's works. The expenditure incurred on inspection such as T.A. and D.A. shall be borne by the Corporation, however, the supplier shall provide at its own cost all material, equipment, tools, labour and other facilities for carrying out inspection, test or examination which the Corporation or it's nominee may consider necessary. In case supplier gives a notice and fails to offer the equipment for inspection on the date fixed for inspection, expenditure incurred on T.A. and D.A. shall have to be borne by the supplier and such will not entitle the supplier to ask for any extension in time of delivery.

11. REMOVAL OF DEFECTS

If upon inspection, any defects of whatsoever nature, are pointed out by the Corporation or it's nominee, it shall be the duty of the supplier to rectify the same as far as they are within the specifications mentioned in the supply order immediately after communication of defects. The date of receipt after removal of defects will be construed as date of receipt for the purpose of calculating delivery period for the purpose of Clause-4 of Section-II of Part 'A'.

12. PACKING

The supplier shall pack the equipment sufficiently and properly to ensure its safe delivery without any loss or damage up to destination.

13. MARKING

The supplier shall comply with the requirements of Indian Acts relating to Merchandise and rules made there under as to marking of all the goods supplied. Equipment number will be written on top of the two sides of every equipment. Identification number/mark will be informed separately along with the purchase order.

14. INSURANCE

The supplier shall dispatch all the consignments duly insured for all transit risks according to the dispatch instruction given by the Corporation. To avoid complications that may arise at the time of settlement of claims by underwriters for transit losses, the insurance coverage should be arranged by the supplier at their own cost as under:

- (a) In case of indigenous supplier 'all transit risks' insurance shall be arranged commencing from their works to the destination of the Corporation.
- (b) The supplier is responsible to give safe delivery of the equipment at FOR destination. For any loss/damages etc. during transit, the supplier shall have to lodge the claim with the insurers and pursue the same till its settlement.

15. On-site Warranty

- (i) The supplier shall warrant that goods to be supplied under this contract shall be free from all defects and faults in material, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for material of the type of equipment ordered and in full conformity with the contract specification and drawings of samples, if any, and shall operate properly and satisfactorily.
- (ii) Supplier shall provide guarantee for the satisfactory performance of the equipment in accordance with the specifications and norms fixed by the Corporation for minimum period of **36 calendar months** from the date of commissioning of equipment/machine.
- (iii) The supplier's responsibility in respect of any complaints, defects or claims shall be limited to supply and installation or replacement of parts free of charge or the repair of defective parts only to the extent that such replacement or repairs are attributable to or arise from faulty workmanship or material or design in the manufacture of the equipment provided defects are brought to the notice of the supplier within 3 months of their being first discovered during the warranty period and in no case after one month from the date of expiry of warranty period. The warranty period for replaced parts will extend to 12 month from the date of replacement as envisaged by the warranty clauses in this agreement in respect of original supply.
- (iv) The supplier shall, if required, replace the goods or such portion thereof as is rejected by the Corporation free of cost at the ultimate destination or at any other place at the option of the Corporation. The supplier shall pay to the Corporation the value thereof at the contract price and such other expenditure and damages as may arise by reason of the breach of the conditions herein specified.

- (v) All replacements and repairs that Corporation shall call upon, the supplier to deliver or perform under this warranty, shall be delivered or performed by the supplier within 07 days (promptly and satisfactorily) failing which the cost of emergency repairs done by the user unit shall be borne by the supplier and refund of security deposit shall be extended by the supplier till such time all the claims are settled to the satisfaction of the Corporation. If the supplier desires to take over the defective parts, it shall be done within one month from the date of replacement. Thereafter, Corporation shall not be responsible to keep the defective parts.
- (vi) The warranty herein contained shall not apply to any material which shall have been repaired or altered by the Corporation or on his behalf in any way without informing the supplier in advance. If, however, any such repair does not affect the strength, performance or reliability, the warranty shall continue to apply. Any defect caused to any party due to misuse, negligence or accident will not be covered by warranty.

16. LIQUIDATED DAMAGES

Time of delivery, installation and commissioning stipulated in the contract is the essence of the contract. It is admitted by the supplier that any delay in the delivery, installation and commissioning will cause damages to the Corporation, the supplier hereby agrees that the Corporation shall suffer damages at the rate of 2.50 % for each week or part thereof by which delivery, installation and commissioning is delayed subject to maximum of 10% plus G.S.T. as per rules and it shall be deemed to the actual damage suffered by the Corporation. The supplier undertakes that if it fails to have the equipment delivered, installed and commissioned at site by the time specified in the purchase order, the supplier shall become liable to pay damages at the above rate and shall continue to incur liability to pay damages as the delay increases. The Corporation may withhold any payment due to the supplier until the whole of the equipment have been fully delivered, installed and commissioned and shall deduct or recover from the supplier the liquidated damages as stipulated above.

17. DEFAULT AND RISK PURCHASE

- (i) Should the supplier fail to have the store ready for delivery as aforesaid, or should the supplier in any manner or otherwise fail to perform the contract or should it have receiving order made against it or make or enter into any arrangements or composition with its creditor, or suspend payment (or being a company should enter into liquidation either compulsory or voluntary) the corporation shall have power under the hand of the Chief Executive, to declare the contract at end at the risk and cost of the supplier in every way. In such case supplier shall be liable for any liquidated damages for delay as above provided and for any expense, losses or damages which the Corporation may be put to incur or sustain by reason of, or in connection with supplier's default.
- (ii) The cancellation of the contract may be either for whole or part of the contract at Corporation's option. In the event of the Corporation terminating this contact in whole or in part, they may procure upon such terms and in such manner as they deem appropriate, supplies or services similar to those so terminated and the supplier shall be liable to the Corporation for any excess cost for such similar supplies or services provided that the supplier shall continue the performance of this contract to the extent not terminated under the provisions of this clause.

18. TERMS OF PAYMENT

1. All invoices shall be prepared in quadruplicate in favour of Rajasthan State Seeds Corporation Ltd., Jaipur and shall be signed by the Supplier or his authorized agent. Every invoice shall bear a certificate that the **"material covered by the invoices has been inspected by the supplier before delivery and confirms in every way to the contract specifications and is packed in accordance with the contract requirements and further that no invoice has been preferred previously in respect of the articles charged in the particular invoice"**. The invoices shall be sent to concerned consignee units of RSSC.
2. After delivery 60% of the invoice value would be paid by RSSC on receipt of stock entry and I.U.T. from destination unit.
3. Balance 40% of the invoice value would be paid, after satisfactorily trial and commissioning of the equipment/machine and furnishing the certificate to this effect by the consignee unit of RSSC.

19. SETTLEMENT OF DISPUTES

If there arises a dispute between parties of the bidder is aggrieved by the action of RSSC, he may file an appeal in the prescribed Performa and manner given in RTPP act 2012 and RTPP Rules 2013 of Govt of Rajasthan.

The first appellate authority will be Principal Secretary Agriculture/Administrative Department (Department of Agriculture) and second appellate authority will be finance department, Govt. of Rajasthan, if for any reason the matter has to be referred to a court of law, the court law at Jaipur having its jurisdiction at Jaipur only shall have jurisdiction in this matter. The venue of arbitration (if any) shall also be Jaipur.

20. CORRUPT GIFTS AND PAYMENTS OF COMMISSION

Any bribe, commission, gift or advantages given, promised or offered by or on behalf of the supplier, his agents or representatives or anyone on their behalf to any employee, representative or agent of the Corporation/ of any person on his behalf in relation to the execution of this or any other contract with the Corporation shall, in addition to the criminal liability under the laws in force, subject the supplier cancellation of this and other contracts with the Corporation, and also to payment to any loss resulting from any such cancellation to the extents as is provided in case of cancellation under Clause No.17 'DEFAULT AND RISK PURCHASE' and the Corporation shall be entitled to deduct the amounts so payable from any money otherwise due to the supplier under this or any other contract.

21. RTPP Act, 2012 and RTPP Rules 2013 shall be applicable as the case may be.



SECTION-III
TENDER FORM

To,

**The Managing Director,
Rajasthan State Seeds Corporation Ltd.,
Pant Krishi Bhawan, Janpath,
Jaipur.**

Sub: Tender for supply of _____

Sir,

- (i) I/We _____ have read the tender document as issued by Rajasthan State Seeds Corporation Ltd, (Hereinafter called Corporation) and hereby agree to abide by the said instruction, terms and conditions.
- (ii) I/We also agree to keep the offer contained in the tender open for acceptance for a period of 90 days from the date fixed for opening the financial bid.
- (iii) I/We also agree to extend the validity of this contract for a further period of three months. Repeat the order on same rates, terms and conditions for any additional quantities likely to be required during this period as per provision of RTPP act 2012 and rules 2013.
- (iv) I/We offer to supply the equipment/machine at the rates quoted by me/us and hereby bind myself/ourselves to complete the delivery, installation and commissioning within a period of 75 days from the date of purchase order.
- (v) The earnest money of has been deposited vide Bank Draft No. _____ for Rs. _____ (Rupees _____)
- (vi) The full value of the earnest money shall stand forfeited without prejudice to any other rights or remedies if:
I/We withdraw the offer before a final decision of the tender is taken, provided that such a withdrawal is made within 90 days from the date of opening of financial bid.
I/We do not execute the contract document/agreement within the stipulated period after acceptance of my/our tender will be known to me/us.
- (vii) Until a formal agreement is prepared and executed, acceptance on this tender shall constitute a binding contract between us subject to modifications as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work.
- (viii) I/We have read the arbitration clause in Section-I & II of Part 'A' of tender document , relating to instructions to tenderers and general conditions of the contract and I/We hereby agree that any dispute of whatsoever nature that may arise in connection with this tender shall be decided under these agreement clauses.
- (ix) It is agreed that Civil Courts at Jalpur alone will have jurisdiction to deal with any legal proceeding that may arise in connection with this tender or subsequently.
- (x) We have submitted/uploaded this tender as per the requirements of web procurement portal of Govt. of Rajasthan i.e. www.eproc.rajasthan.gov.in.
- (xi) I/We have read and understand that my/our financial bid shall be opened only if our bid is found qualified based on technical bid.
- (xii) I/We have read and understood the specification for the items and terms and conditions contained in the tender document and agree to which by the same and against which the bids are submitted .

(Signature & Stamp of Tenderer)



SECTION -IV

'Annexure-A'

(To be submitted to RSSC in the envelope marked 'Technical Bid.')

FORM FOR TECHNICAL BID (Profile of the Company)

To,

The Managing Director,
Rajasthan State Seeds Corporation Ltd.,
Pant Krishi Bhawan, Janpath,
Jaipur.

Sir,

Profile of our Company is as under:

1.1 Constitution or legal status of Bidder (Attach Copy)

❖ Place of registration: _____

❖ Principal place of business: _____

❖ Power of attorney of signatory of Bid (Attach)

1.2 Work performed as prime supplier on works of a similar nature over the last five years.

Year	Name & Address of purchaser	Description of Machine	Purchase Order No. & Date	Value (Rs.in lakhs)	Stipulated period of Completion	Actual date of Completion
1	2	3	4	5	6	7

❖ Explain reasons for delay and attach copies of Purchase Orders.

1.3 Information of Bid Capacity (works for which bids have been submitted and works which are yet to be completed) as on the date of this bid.

(A) Existing commitments and on-going works:

Description of machine	Place and State	Contract No. & Date	Name & Address of Purchaser	Value of Contract (Rs.)	Stipulated period of completion	Value of remaining work to be completed	Anticipated date of Completion
1	2	3	4	5	6	7	8

(B) Works for which bids already submitted.

Description of machine	Place and State	Tender No. & Date	Name & Address of Purchaser	Stipulated period of completion	Date when decision is expected	Remarks, if any.
1	2	3	4	5	6	7

* Attach supporting documents.

1.4 Capabilities with respect to personnel, equipment and manufacturing facilities

1.4.1 Availability of infrastructure.

Name of the Building	Size (Sq.Mtr.)	Type of Structure
1	2	3

1.4.2 Availability of Equipment.

Item of Equipment	Available Capacity	No.	Owned/leased/to be procured	Now/Capacity	Age/Condition	Remarks (From whom to be purchased)
1	2	3	4	5	6	

1.4.3 Availability of Personnel

Type of Employee	No.	Qualification	Experience
1	2	3	4

1.5 Qualification and experience of key personnel for administration and execution of the Contract. Attach biographical data.

Position	Name	Qualification	Years of Experience (general)	Years of experience in the proposed
1	2	3	4	5

1.6 Financial reports for the last three years, balance sheet, profit and loss statement, auditors' reports (in case of companies/Corporation) etc. List them below and attach copies.

1.7 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit etc. List them below and attach copies of support documents.

1.8 Name, address and telephone, telex and fax numbers of the Bidders' banker who may provide references if contacted by the RSSC.

1.9 Information on litigation history in which the Bidder is involved.

Other party	Employer	Cause of dispute	Amount	Remarks showing present status
1	2	3	4	5

2.0 An affidavit on Rs. 100/- non-judicial stamp paper stating that the firm is not black listed by any Govt. Deptt./Public Enterprises/Govt. Undertaking.

(Signature & Stamp of Tenderer)



SECTION-IV

'ANNEXURE-A1'

(To be submitted to RSSC in the Envelope marked 'Technical Bid')

(FORM FOR TECHNICAL BID) (EQUIPMENT PROFILE)

To,
The Managing Director,
Rajasthan State Seeds Corporation Ltd.,
Pant Krishi Bhawan, Janpath,
Jaipur.

Sir,

TECHNICAL SPECIFICATION OF OUR EQUIPMENT IS AS UNDER:

NAME OF EQUIPMENT :
MODEL NO. :
AVERAGE THROUGHOUT CAPACITY :
APPLICATION :
SPECIFICATION (Complete With Details) :
MATERIAL OF CONSTRUCTION :
CONSTRUCTIONAL FEATURES
ALONG WITH LEAFLETS &
DRAWINGS :
OTHER DETAILS, IF ANY :

Enclosures:

(Signature & Stamp of Tenderer)



SECTION-V

AGREEMENT FORM

This agreement is made on thisbetween the Rajasthan State Seeds Corporation Ltd. A government of Rajasthan Company, incorporated under the Companies Act 1956 and having its registered office at Pant Krishi Bhawan, Janpath, Jaipur and (hereinafter called the 'Corporation ' which expression shall unless excluded by or repugnant to the context, be deemed to include its successors and assigns) of the first part and M/s.....(hereinafter called the 'Supplier' which expression shall include unless excluded by or repugnant to the context, be deemed to its successors and assigns) of the second part.

WHEREAS the 'Corporation' with the intention of purchasing seed processing equipment/machines and related equipment/machines invited offers vide NIT No dated-----for supply of ----- on its own behalf (hereinafter called the 'purchaser')

AND WHEREAS the supplier submitted their tender ----- and upon consideration of the tender and after due deliberations, the Corporation placed purchase Order with supplier, for the supply of equipment/machines----- as per specifications, quantities and number mentioned in schedule of this agreement and in purchase order.

AND WHEREAS the Corporation and the supplier have agreed to all the terms & conditions as contained in the tender document which shall form part of this agreement.

The supplier hereby agrees to supply and purchaser hereby agrees to purchase equipments/machines with specification and details as mentioned in Purchase Order.

Settlement of Disputes

All disputes or difference in relation to the contract or the interpretation of any of its terms of implementation thereof or arising out of the or concerned directly or indirectly with the contract, the bidder may file an appeal in the prescribed Performa and manner given in RTPP act of Govt. of Rajasthan. The first appellate authority will be Principal Secretary Agriculture Administrative Department (Department of Agriculture) and second appellate authority will be Finance Department, Govt. of Rajasthan. If for any reason the matter has to be referred to a Court of Law, the Court of Law at Jaipur having its jurisdiction at Jaipur only shall have jurisdiction in this matter. The venue of Arbitration (if any) shall also be Jaipur.

No amendments or modification in the terms of this agreement shall be considered valid unless it is in writing and duly signed by both the parties.



IN WITNESS WHEREOF, both the parties have here to subscribe their signature on the date and year herein above written through authorized representatives.

For and on behalf of
the supplier

For and on behalf of
Rajasthan State Seeds Corporation Ltd.

Witness

1.

2.

3.

Witness

1.

2.

3.



Rajasthan State Seeds Corporation Ltd.

Check list of enclosures for Technical & Commercial Bids:

S.No.	Item	Mode of submission	
1.	Demand Draft for EMD, Tender & Processing Fee	Copy to be uploaded to www.eproc.rajasthan.gov.in and physical submission up to the date and time mentioned in NIT.	{ }
2.	Certificate of registration of the firm.	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
3.	Authorization /Resolution for signing of bid if it is limited Company or partnership firm. OR An affidavit of ownership if proprietary firm/sole traders	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
4.	Work performed as prime supplier on works of similar nature over the last 5 year.	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
5.	Format of Technical bid duly filled and signed.	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
6.	A copy of PAN No & Income-tax Return for the current year & previous three years.	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
7.	GST. NO	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
8.	Balance Sheet for last Three years and certificate of Annual Turn Over of the firm in last three years by authorized Chartered Accountant.	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
9.	Evidence of access to financial resources and Bank Details.	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
10.	Information regarding litigation history	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
11.	An affidavit on Rs. 100/- non-judicial stamp paper stating that the firm is not black listed by any Govt. Deptt./Public Enterprises /Govt. Undertaking.	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
12.	Each and every concerned pages of tender document should be signed with stamp of authorized signatory of tenderer.	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
13.	Affidavit that in no circumstances exceeded lowest price of identical goods to Govt. / Semi Govt. Organizations.	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }
14.	Other document if any in support of the tender.	Copy to be uploaded to www.eproc.rajasthan.gov.in	{ }

Note: - In absence of any of the above documents, tender shall be consider for rejection.

SV

PART-B

CB

SECTION-1

TECHNICAL SPECIFICATION

- (A). **5.0 TPH capacity seed processing Machine-line complete on turnkey basis:**

These seed processing machine-line shall consist of following machines:

1. Air Screen Seed Pre-cleaner.
2. Seed grader.
3. Indented cylinder.
4. Sp. Gravity seed separator.
5. Seed Treater.
6. Vertical Bucket Elevators:
7. Storage Bin.
8. Additional screens for pre-cleaner and Grader.
9. Air Compressor.
10. *Electric control panel with MIMIC Diagram*

NOTE :

- (i) **SUITABLE BY-PASS ARRANGEMENT FOR AIR SCREEN SEED PRE-CLEANER, INDENTED CYLINDER AND GRAVITY SEPARATOR MUST BE PROVIDED.**
- (ii) **Required no. of Vertical elevators shall be as per approved machine lay-out wherein tentative quantity shall be six no. in one machine line.**
- (iii) **Elevator pit cover, seed diverting chutes, air ducting, electric cables, electric fittings, foundation frame, railing, stairs, supports, inspection window etc. wherever required to complete plant on turnkey basis shall be included by the bidder for supply on turnkey basis.**

The specifications for above-mentioned machines shall be as follows:

1. Air Screen Seed Pre-Cleaner:

Suitable average through put capacity on Wheat basis at 18 % maximum moisture content and 20 % impurities, having two screens for double scalping, one for rough scalping and one for close scalping operations. Sieves to separate chaff and other contaminants larger and smaller than seed size, with double stage aspiration to blow out light material and settling chamber. Complete with all standard features including the following: -

- a) Roll feed hopper
- b) Dynamically balanced fan assembly for double stage aspiration.
- c) The sieves shall be interchangeable & shall be provided with efficient adjustable cleaning device.
- d) Waste product spout on side with bag holding clamps.
- e) Clean seed discharge spout in center of the equipment with holding clamps.
- f) All moving parts shall be covered with protective guards.
- g) Variable speed shaker shoe.



- h) Drive control and tropicalised T.E.F.C. electric motor standard make (ISI marked) with suitable control panel for operation on 220/440 volts, single/three phase, 50 Hz, AC current supply. The unit shall also include all pre wiring from the motor to the starter to single connection for incoming power supply.
- i) Variable air regulator.
- j) One complete set of screens for wheat.

Accessories:

- I. Suitable dust cyclone complete with all supports for outside installation.
- II. Surge bin/Buffer hopper (As required).
- III. Matching Air Duct (As required).

2. Seed Grader:

Suitable average through put capacity on Wheat basis at 18 % maximum moisture content, having minimum three screens for cleaning and grading of various crops e.g. Wheat, Barley, Gram, Soya been, Mustard, Pulses etc. with double stage aspiration to blow out light material and settling chamber. Complete with all standard features including the following: -

- a) Roll feed hopper
- b) Dynamically balanced fan assembly for double stage aspiration.
- c) The sieves shall be interchangeable & shall be provided with efficient adjustable cleaning device.
- d) Waste product spout on side with bag holding clamps.
- e) Clean seed discharge spout convertible for right / left/ center position with holding clamps.
- f) All moving parts shall be covered with protective guards.
- g) Variable air regulator, screen pitch & shoe shakes.
- h) Drive control and tropicalised T.E.F.C. electric motor standard make (ISI marked) with suitable control panel for operation on 220/440 volts, single/ three phase, 50 Hz, AC current supply. The unit shall also include all pre wiring from the motor to the starter to single connection for incoming power supply.
- i) One complete set of screens for wheat.

Accessories:

- i) Suitable dust cyclone complete with all supports for outside Installation.
- ii) Surge bin/Buffer hopper (As required).
- iii) Matching Air Duct (As required).

3. Indented Cylinder:

Suitable average through put capacity on Wheat basis complete with all the standard features including the following: -

- a) Feed hopper
- b) Waste product spout with bag holding clamps.
- c) Clean seed discharge spout with holding clamps.
- d) All moving parts shall be covered with protective guards.
- e) Adjustable cylinder speed with reduction gearbox.
- f) Drive control and tropicalised T.E.F.C. electric motor standard make (ISI marked) with suitable control panel for operation on 220/440 volts, single / three phase, 50 Hz, AC current supply. The unit shall also include all pre wiring from the motor to the starter to single connection for incoming power supply.

4. Specific Gravity Seed Separator:

Suitable average through put capacity on Wheat basis. Complete with all standard features including one seed deck with wire mesh for separation of large size seeds like wheat, maize, peas etc. and one deck suitable for separation of small size seeds of vegetable and other crop like Cauliflower, Berseem, tomato etc. The other standard feature shall include following: -

- a) Quick assembly deck type arrangement with dynamically balanced multiple fan/blower units with controls to adjust air flow as well as air pressure.
- b) Easy and smooth adjustment for feed rate, end slope, side slope, air intensity and deck oscillation speed.
- c) Air suction unit shall have suitable filter.
- d) All moving parts covered with protective guards.
- e) Electric motor of standard make (ISI marked) with suitable control panel for operation on 220/440-volt single/ three phase, 50 Hz, A.C. power supply.
- f) Suitable dust cyclone complete with all supports for outside installation.
- g) Surge bin/Buffer hopper (As required).
- h) Matching Air Duct (As required).

5. Universal Seed Treater(for both wet and dry treatment)-5.0TPH capacity:

Suitable average through put capacity on Wheat basis. The Treater should be made of welded structure of heavy angle iron. Chemical tank made of stainless steel, Dispensing pump for dosing of slurry, feed hopper with regulated gate, seed weighing mechanism and synchronized seed dump pan. Variable dosing arrangement to suit seed treatment for all kinds of seeds. Dosing of chemicals shall be fully automatic. Mixing chamber should be fitted with rotating mixing auger. Supporting frame should bring the machine up to the bagging height. Two-way bagger with bag holding Clamps should be provided. The electric motor should be of standard make (ISI marked) with suitable control panel for operation on 220/ 440 Volts single/Three phase supply 50 Hz, A.C. power supply with suitable Starter.

6. Vertical Bucket Elevators:

Suitable average through put capacity on Wheat basis. Self-supporting centrifugal discharge vertical bucket elevators shall have following standard features.

Dump hopper: -

It shall be made of 1.6 mm thick M.S. sheet and a heavy-duty expanded metal cover up on leg shall be provided to remove chaff, strings, stones etc. Bottom boot assembly: -

It shall be self-cleaning type. The casing of the boot shall be of M.S. sheet of 3.2 mm thickness, stiffened with angle iron, the pulley shall be mounted on a heavy-duty shaft on self-aligned ball bearings. Belt tightener shall be provided. Two removable sheets shall be provided for rendering service to the bottom pulley.

Middle section legs: -

Each section of leg shall be made of 1.6 mm thick M.S. Sheet metal stiffened with M.S. Angle iron. It shall be provided with flanges at both ends of M.S. Angle iron. Belt inspection door shall be provided at suitable height.

Head casing: -

It shall be made of 2.5 mm thick M.S. sheet suitable stiffened with angle iron. Detachable split cover with rubber inside shall be provided for accessibility to head pulley. Head pulley shall be lugged with rubberized canvas and crowned for improved traction and shall be mounted on a heavy-duty shaft and self-aligned ball bearings.

By

Ladder and platform: -

Ladder, service platform with safety cage of suitable size and height shall be provided to enable accessibility to the head boot.

Belt and belt speed: -

4 Ply Rubberized Canvas belt conforming to ISI specifications shall be used for fastening of buckets (Cups). The belt speed shall not exceed 56 meters/minute.

Buckets: -

Buckets of Self-cleaning type, die pressed from M.S. sheet /Aluminum sheet/Stainless steel sheet of 1.6 mm thick shall be used. These buckets shall be fastened with cup-bolt and washers with belt. Spacers shall be provided between buckets and belt to prevent damage to the seeds.

Discharge Pipe: -

Suitable discharge pipe made of 1.6 mm M.S. sheet with both end flanged shall be used for discharging the grains/seeds.

Electric Drive: -

Suitable gear drive control with electric motor (ISI marked) of suitable horsepower and starter for operation on 440 V, 3 Phase, 50 cycles, A.C. Supply.

7. Storage Bin / Bagging Bin:

Central discharge, square Storage/Bagging Bin of M.S. sheet metal to hold/store all types of seeds having storage capacity of 5.0 Ton based on Wheat.

The Sides and the centrally located 45 degree hopper bottom are made of 16 gauge and 14 gauge M.S. Sheet respectively and are provided with appropriate angle iron bracings to give sufficient strength against the seed load.

The bin is installed on suitable structure with manually operated rack and pinion/screw slide system to control the discharge of the seeds. The clearance of discharge gate from the ground level shall be 1.50 Meters minimum.

The bin is installed on suitable M.S. Channel legs suitably reinforced with angle iron bracings, with heavy-duty bolts and nuts to withstand the load of the bin and seed. 12 mm thick base plates are welded with main supporting channel legs. 1.91 cm dia. holes shall be drilled in the base plate for foundation purposes.

5 mm thick M.S. Plates are welded at each corner inside the bin body where the channel legs are bolted with the bin to give sufficient strength to the bin body sheet against shear due to total load of seed and bin.

All metallic surfaces shall be painted with red oxide primer followed by two coats of enamel paint.

8. Screens:

The following additional screen sets are required for seed grader and the matching additional screen sets for pre-cleaner are also to be supplied along with frames, size denomination etc. complete. The matching screen racks are also to be supplied for seed grader and pre-cleaner separately.

S.No.	Top Screen	Bottom screen
	Aperture size in MM	Aperture size in MM
1.	6.50 r	2.30 s
2.	9.00 r	1.85 s
3.	6.00 r	2.30 s
4.	11.00 r	6.40 r
5.	4.75 r	3.90 s
6.	3.25 r	3.50 r
7.	5.00 r	1.40 r
8.	10.00 r	1.60 r

9.	7.00 r	2.80 s
10.	5.50 r	1.60 s
11.	9.50 r	4.00 r
12.	3.00 r	3.20 s
13.	2.40 r	1.40 r
14.	8.00 r	1.10 s
15.	7.20 r	1.60 r
16.	2.00 s	4.00 s

9. Air Compressor:

Stage of compression - 2 stage

Displacement volume - 7.5 Kg. per sq.cm

Air Tank Capacity of 150 to 200 liters fitted with tropicalised electric motor of TEFC type meeting ISI specifications and of standard make for operation on 440 volts, 3 phase, 50 cycles AC supply with electric controls, Base frame with castors etc. complete with all accessories and PVC flexible hose pipe (8mm ID , 50.00 M long)

10. Electric control panel with MIMIC Diagram:

The panel shall be 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 shall be fabricated as per prescribed "CE" norms. All motors fitted with the machines shall be tropically rated totally enclosed fan cooled type and current protecting. Suitable for 415 V, 50 Hz, 3 Phases, AC Supply. Lying of cables shall be as per prescribed "CE" norms.

(B). Electronic road weigh bridge:

Electronic road weigh bridge using load cells, weight indicator & fabricated platform etc. complete with all accessories and having complete PC interface and control of durable design and high consistency complete on turnkey basis. Various specifications shall be as follows: -

1. Pit type electronic road weigh bridge of 60-ton capacity with a least count of 5.0 kg.
2. The site shall be marked and indicated by RSSC Ltd.
3. All required civil works e.g. control room of minimum size 10'x10'x10' with adequate ventilation and RCC roof and inside electrical fittings and fixtures, approach road, furniture and fixtures etc. shall be executed by the supplier as per the approval of RSSC ltd.
4. The weighing plate form shall be of the minimum size 12000 mm x 3000 mm and should have robust structural design and should be painted with suitable anti corrosive paint. The plate form shall have suitable suspension arrangement to allow lateral and transfers swing and absorb the dynamic loading. The structural design shall be as per the specification and requirements of the manufacturer.

5. Load Cells: - Minimum of 4 no. of hermetically sealed compression type load cells each in parallel having the rated capacity of 20-30 tons each. The other specification are as follows:-

(i)	Rated Capacity	:	15-20 tons
(ii)	Housing material	:	Stainless steel
(iii)	Rated output	:	1 mv/v
(iv)	Input impedance	:	1080 \pm 10 Ω
(v)	Output impedance	:	1010 \pm 10 Ω
(vi)	Maximum load cell excitation voltage	:	32 V DC
(vii)	Hystercics	:	< 0.017 % R.O.
(viii)	Non linearity	:	< 0.01 % R.O.
(ix)	Repeatability error	:	< 0.005 % R.O.
(x)	Creap after 50min	:	< 0.015 % R.O.
(xi)	Usable ambient temperature range	:	-40° to 95° C
(xii)	Protection class	:	1 p 68 (10000 hrs / 1.5 m)
(xiii)	max. usable load without electrical damage	:	200 %
(xiv)	Destructive load (Mechanical destruction)	:	500%
(xv)	Temperature effect on zero	:	< 0.01 % R.O.

6. Digital weighing indicator : shall have 5000 d class III accuracy to EN 45501 corresponds to OIMIL R 76 and shall meet weighs and measure standards.

(i)	Total Range	:	0-36 mv
(ii)	Measuring Signal	:	2.4 mv/v to 36 mv/v
(iii)	Dead load range	:	0mv - 33.6 mv
(iv)	Span & dead load adjustment	:	via software during calibration no hard ware adjustment required.
(v)	Filter	:	put off frequency 2 hz.
(vi)	A/D conversion	:	Integrating, ratio metrically to the load cell voltage supply.
(vii)	Measuring time	:	Approx 1 sec.
(viii)	Temperature	:	- 10° to 55° c
(ix)	Main supply	:	240 V AC, 50 hz
(x)	Status indication	:	Zero, stand stall, gross weight net tare
(xi)	Hardware option	:	RS 232 C, parallel printer interface with full pc compatibility.

7. Control terminal : Intelligent terminal/PC with latest configuration with suitable software etc. complete.
8. Battery Backup : Complete battery backup for weighing terminal and printer etc. for at least 08 hours with suitable UPS and high voltage protection device and maintenance free batteries.
9. Printer : 24 pin, 180 column dot matrix printer (Wipro or TVSE make)
10. Software : Shall be capable of screen entry and updation of all relevant data and capable to store material, vender, customer and truck tables minimum 2000 trucks. The programme should have easy updation and all standard diagnostic features along with auto calibration etc.
11. Test weight: 01 ton test weight must be provided with the weigh bridge.
12. Additional external display with minimum character size 12.5 mm.
13. Any other specification or material required for smooth functioning of the weighbridge shall be provided by the manufacturer.
14. Stamping of the weigh bridge by weights and measurement department shall be arranged and done by the supplier at his own cost before handing over the weigh bridge.

(C). Silent Diesel Generator Set complete on turnkey basis:

- * Make : Kirloskar / Cummins / Mahindra / CAT
- *415 V , 50 Hz , 3 Phase Liquid cooled silent genset.
- *Rated capacity at 0.8 pf (kVA) : 60.0 KVA
- *Engine: Four cylinder, water-cooled, diesel oil engine developing 60-65 BHP @ 1500 RPM as per IS 10001, BS 5514, DIN 6271 and ISO 3046 standard complete with all requisite accessories. 12V electric start type with Battery and battery charging alternator. Suitable Fuel tank of 100-lt capacity with feed pump.
- *Alternator: 415 V, 50 Hz, Three phase, developing minimum 50 KVA at 0.8 pf as per ISO 8528 standard with all requisite accessories. Close coupled brush less type.
- *Acoustic Canopy: CRCA 14 gauge canopy with powder coating suitable for outdoor installation with suitable ventilation.

Having features like in built arrangement for rolling in and out the complete generator for overhauling, well enforced lifting hook, sealed lockable doors with gaskets and oil draining arrangements, float frame for double A.V.M. pads mounting system with pressurisers for the engine chamber, having

extended cooling arrangements with additional forced ventilation system, acoustically treated inside with mineral wool/ glass wool/puff & asbestos coating etc. for effective noise reduction and better efficiency of the Engine. Passage diffusers for incoming and outgoing air with cage, flexible fuel connector, cab illumination inspection lamp with plug and socket adopter, cab Temperature sensors, exhaust diverter spill Tray, design & arrangement for effective and long life dampening arrangements.

- * Suitable control panel with complete indicators gauges and meters.
- * Any other requirement for efficient use and safety should also be incorporated.
- * Since the supply is on turnkey basis all necessary arrangements for installation and commissioning of DG set e.g. construction of platform, cabling, changeover switch, connections, providing and making suitable earth pit complete etc. all shall be done by the supplier at his own cost.

(D) Automatic weighing and bagging machine (1 to 10 kg capacity) and Automatic sealing machine:

1. Suitable for weighing and filling of open mouth bag having capacity of 1.0 to 10.0 kg with accuracy and reliability.
2. Load cell based having microprocessor based electronic controller which may be programmed as per requirement.
3. Having big and clear LED display and easy to operate.
4. There should not be any need of compressed air as the machine should be electromagnetic solenoid operated.
5. The machine should have accuracy of $\pm 0.5\%$.
6. All requisite accessories e.g. Bag closer, Bucket elevator and storage bin (5.0 ton) shall be provided with the machine.
7. Automatic sealing machine shall have a capacity of 300 bag/hour.
8. Suitable electric drive with compliance to all BIS and safety standards.
9. Suitable for customized marking on the seal formed by plastic granules.
10. All these machines should be fitted with suitable heavy duty castors with locking arrangement for easy movement.

(E) Vegetable Seed processing Plant with Pouch Packing Machine on Turn Key Basis- 500 KGS

**1. SEED PRE CLEANER
01Nos.**

Cleaning Capacity content designed	: 500 kg/hr based on Wheat input at 12% moisture for efficient cleaning and grading of various crop seeds
Screens	: Scalping, Cleaning, Screen one each.
Angle of Screen	: Fixed
Motor for Sieve Boat	: 0.5HP
Motor for blower	: 1HP
Operating Voltage	: 220V, 50Hz Single Phase AC.
Hopper	: Painted Steel construction with feed roller.
Aspiration Fan	: Fan with variable air control arrangement to lift the light impurities, small weed seeds, husk and dust.



2. SEED GRADER

01Nos.

Cleaning Capacity content designed	: 500 kg/hr based on Wheat input at 12% moisture for efficient cleaning and grading of various crop seeds, such as paddy, wheat, pearl, millet, maize, pulses, vegetable seeds, oil seeds fodder crop seeds etc.
Screens	: Scalping, Cleaning, Grading Screen one each.
Output	: Good Grain, over size, impurities, under size impurity, scalped impurities, immature impurities (separate outlets for each).
Angle of Screen	: Fixed
Motor for Sieve Boat	: 0.5HP
Motor for blower	: 1HP
Operating Voltage	: 220V, 50Hz Single Phase AC.
Hopper	: Painted Steel construction with feed roller.
Aspiration Fan	: Fan with variable air control arrangement to lift the light impurities, small weed seeds, husk and dust.

3. INDENT CYLINDER SEPARATOR

01Nos.

No. of Cylinder	: One or Two
Motor	: 1 HP Electric Motor

4. GRAVITY SEPARATOR

01Nos.

No. of Fans	: 03 All the fans are mounted on one common Shaft.
Size of Deck	: 800 x 1580 cms (approx.)
Type of Deck	: Rectangular
Motor	: 5 HP, 1441 rpm
Operating Voltage	: Three Phase, 50Hz AC

5. DESTONER

01Nos.

Motor	: 01HP
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6. COMPACT UNIVERSAL DIGITAL DATA LOGGING MOISTURE METER

Body	: Made of Steel
Test cup	: Stainless steel Test Cup Visible while giving pressure
Transducer	: High compression unit removes the porosity effect.
Minimum sample of grain	: More than 30 cubic centimetre
Lead screw guide nut	: Made on CNC and are Interchangeable.
Re - calibration with oven	: Can be done on all commodities independently.
Range	: 3.5 to 40%
Consistency	: ± 0.2 %
Principle of Measurement	: Based on Resistance
Display	: 2 x16 character alphanumeric LCD display. (Can display, Print & Record Date, Time, Temperature & Moisture percentage)
Temperature compensation	: Automatic
Temperature sensor	: PT - 100
Averaging	: It can have average of no. of readings

Keypad	: 09 Keys Membrane keypad .
Power	: 9 V DC, operated, 230V, 50Hz or 6 dry cells.
Data Logging	: Can record temperature and moisture at various date & time.
Data Storage Capacity	: It has memory of 200 readings.
Size (LxBxH in cm)	: 28cm x 17.5cm x 24cm Approx.
Weight	: 12 Kg. Approx.

7. (i) AUTOMATIC FORM FILL & SEAL MACHINE (PNEUMATIC TYPE) WITH WEIGHMETRIC FILLING SYSTEM

Suitable for Seed and Granular Products
 Compact and robust machine with high filling accuracy.
 Automatic length control, through photocell eye mark sensor
 PLC control system
 Automatic totalizer.
 Digital display for weight setting.
 Vibratory feeder for feeding the material with bulk and fine mode option.
 All contact parts are made of stainless steel.

SPECIFICATIONS:

Quantity	: 10-50 grams.
Speed	: 4-5 pouch per min
Packing Material	: Heat Sealable Laminated Pouches.
Filling System	: Load Cell Weigher System.
Sealing	: Centre side seal/Three Side seal system
Motor	: Crompton/G.E
Power	: 2.0 KW, single phase, 230 V, 50 Hz AC
Coding	: Batch Ink coding System
Compressor	: 1.5 HP

(ii) AUTOMATIC FORM FILL & SEAL MACHINE (COLLAR TYPE) WITH WEIGH-METRIC LOAD CELL WEIGHER SYSTEM

Suitable for Seed and Granular Products
 Compact and robust machine with high filling accuracy.
 Automatic length control, through photocell eye mark sensor
 PLC control system
 Automatic totalizer.
 Digital display for weight setting.
 Vibratory feeder for feeding the material with bulk and fine mode option.
 All contact parts are made of stainless steel.

SPECIFICATIONS:

Quantity	: 100-500 grams.
Speed	: 4-5 pouch per min
Packing Material	: Heat Sealable Laminated Pouches.
Filling System	: Load Cell Weigher System.
Motor	: Crompton/G.E
Power	: 2.0 KW, single phase, 230 V, 50 Hz AC
Coding	: Batch Ink coding System
Compressor	: 3 HP

8. ELEVATORS -05 Nos.

9. Storage BINS -04 Nos.

SUPPORT STRUCTURES & ELECTRICAL CONTROL PANEL