



**DIRECTORATE
AGRICULTURAL ENGINEERING
SINDH HYDERABAD**

No. DAE /Stores-968/ 3130 /17
Hyderabad dated the 06-09-2017

NOTICE INVITING TENDER FOR PRE-QUALIFICATION OF CONTRACTORS.

Director Agriculture Engineering Sindh Hyderabad has an allocation of funds from Government of Sindh for the Project/Scheme "**Subsidy Assistance on Agriculture Implements for farm Mechanization Phase-II**" Scope, Estimated Cost and other details are as under:-

- (i) **Scope:** Enhancement for Farm Mechanization in Sindh.
(ii) **Estimated Cost:** Rs. 60.00 million ✓
(iii) **Project Period:** up to 30th June 2018. ✓
Eligibility: Valid Registration with relevant tax authorities.

Pre-qualification documents: Interested Implements Firms / Manufacturers can obtain the pre-qualification documents from the office of Director Agriculture Engineering Sindh Block "B" Shahbaz building Hyderabad, On payment of non-refundable fee of **Rs. 1000/-**. The pre-qualification documents can also be downloaded from the websites of Agriculture Department and SPPRA authority and submitted along with the tender fee as indicated above.

Documents can be dispatched by Courier service on the written request for which return envelope should be provided with the application however, under no circumstances the Procuring Agency will be responsible for late delivery or loss of the documents so mailed.

Dead line of Issuance of Documents: Documents will be issued to interested firms / manufacturers from date of publication in Newspaper/ SPPRA Website till 26.09.2017 upto **11:00 AM**.

Dead line of Submissions: Documents duly filled and attached with relevant certificates must reach on the address mentioned above on or before 26.09.2017 upto **12:30 PM** and will be opened on same date at **01:00 PM** by the Procurement Committee in the Committee Room of Director Agricultural Engineering Sindh Hyderabad. In case chairman of Procurement committee is not available the document can be submitted on next day and opened accordingly at same time & Place.

Interested firms should submit their inquiries/applications/documents to the following:-

Address Director Agriculture Engineering Block "B" Shahbaz building Sindh Hyderabad
Telephone No 022-9200059
Fax No. 022-9200077
Email director.dae@gmail.com
Focal Person Deputy Director (Mech)

Procuring Agency may reject any or all applications subject to the relevant provisions of Sindh Public Procurement Rules 2010 (amended 2013).

Applicants will be informed, regarding the result of the evaluation of applications in due course of time. Single stage two envelop procedure would be adopted for this tender, and only the Firm / Manufacturer who have been pre-qualified shall be entitled to participate further in procurement proceedings.


**DIRECTOR
AGRICULTURE ENGINEERING SINDH
HYDERABAD**



GOVERNMENT OF SINDH
AGRICULTURE, SUPPLY &
PRICES DEPARTMENT

NOTIFICATION

No.13(347)SO(DEV)/2013: In Supersession of this department's Notification of even number dated 30.11.2016, in pursuance of Rule-7 of SPP Rules, 2010, Government of Sindh, Agriculture, Supply & Prices Department is pleased to reconstitute a Procurement Committee for the schemes / Projects of Agriculture Engineering Sindh with following composition and Terms of References:-

III. COMPOSITION:

- | | |
|---|------------------|
| 1. Director,
Agriculture Engineering Sindh, Hyderabad. | Chairman |
| 2. Director, Sindh On Farm Water Management,
Hyderabad Division. | Member |
| 3. Representative of Industries & Commerce Department,
Government of Sindh, Karachi | Member |
| 4. District Accounts Officer /
Representative of District Accounts Officer, Hyderabad. | Member |
| 5. Deputy Director (Headquarter),
Agriculture Engineering Sindh, Hyderabad | Member/Secretary |

IV. Terms of References:

- Prepare bidding documents;
- Carryout Technical as well as Financial evaluation of the bids;
- Prepare evaluation report as provided in Rule-45 of SPPRA;
- Make recommendations for the award of Contract to the competent authority and;
- Perform any other function ancillary and incidental to the above.

SECRETARY TO GOVT. OF SINDH

No.13(347)SO(DEV)/2013

Karachi, dated the 06-02-2017

A copy is forwarded to information & necessary action to:

- The Secretary to Government of Sindh, Finance Department, Karachi.
- The Secretary to Government of Sindh, Industries Department, Karachi.
- The Managing Director, SPPRA, Karachi.
- The Director General, Agricultural Engineering & Water Management Sindh, Hyderabad.
- All Members of Committee.

(ABDUL AZIZ CHANNA)
DEPUTY SECRETARY (TECH:)

C.c. to:-

- 1- P.S. to Minister, Agriculture, Supply & Prices Department, Govt. of Sindh, Karachi.
- 2- P.S. to Secretary, Agriculture, Supply & Prices Department, Govt. of Sindh, Karachi.



GOVERNMENT OF SINDH
AGRICULTURE, SUPPLY &
PRICES DEPARTMENT

NOTIFICATION

No.13(347)SO(DEV)/2016 In supersession of this Department Notification of even number Dated 22.3.2013 and in compliance with Rule 31 of SPP Rules, 2010, Government of Sindh, Agriculture, Supply & Prices Department is pleased to re-constitute a Committee for Complaint Redressal with the following composition and terms of reference:-

I. COMPOSITION

1-	Director General Agricultural Engineering & Water Management Sindh, Hyderabad	Chairman
2-	Col. (Retd.) Zia Siddiqui (An Independent Professional)	Member
3-	Representative of Office of the Accountant General Sindh, Karachi	Member

II. Terms of References

- i. Committee may examine the complaint of bidder as per SPPRA Rules.
- ii. The Complaint Redressal Committee upon receiving a complaint from an aggrieved bidder may, if satisfied:
 - a. Prohibit the procurement committee from acting or decision in a manner inconsistent with these rules and regulations;
 - b. Annul in whole or in part, any authorized act or decision of the procurement committee; and
 - c. Reverse any decision of the procurement committee or substitute its own decision for such a decision.Provide that the Complaint Redressal Committee shall not make any decision to award this contract.
- iii. The committee shall announce its decision within seven days. The decision shall be intimated to the bidder and the Authority within three working days by procuring agency. In case of failure of the committee to decide the complaint, the procuring agency shall not award the contract.
- iv. The procuring agency shall award the contract after the decision of the Complaint Redressal Committee.
- v. Mere fact of lodging of a complaint shall not warrant suspension of the procurement proceedings.

DR. SAIED AHMED MANGNEJO
SECRETARY TO GOVT. OF SINDH

Contd. P/2

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No.13 (347) SO. (DEV.)/2017

Karachi, dated the 05-01-2017

A copy is forwarded for information & further necessary action to:-

1. The Principal Secretary to Governor of Sindh, Karachi
2. The Principal Secretary to Chief Minister, Sindh, Karachi
3. The Accountant General Sindh, Karachi
4. The Managing Director, Sindh Public Procurement Regulatory Authority, Karachi
5. The Additional Secretary (Staff) to Chief Secretary, Sindh, Karachi
6. The Director General, Agricultural Engineering & Water Management, Sindh, Hyd.
7. The Director General, Agriculture Extension Sindh, Hyderabad
8. The Director General, Agriculture Research Sindh, Tandojam
9. Members of the Committee

(ABDUL AZIZ CHANNA)
DEPUTY SECRETARY (TECH.)

C.c. to:

- 1- P.S. to Minister Agriculture, Supply & Prices Department, Govt. of Sindh, Karachi
- 2- P.S. to Secretary Agriculture, Supply & Prices Department, Govt. of Sindh, Karachi



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12-1-17

Subd
13/01/17
Mr. Kaur

270
18/1

ANNUAL PROCUREMENT PLAN OF DIRECTORATE AGRICULTURE ENGINEERING SINDH HYDERABAD FOR FISCAL YEAR 2017-18

Rs. in Million

Sr. No.	Description of Procurement	Quantity (Where Applicable)	Estimated Unit Cost (Where Applicable)	Estimated Total Cost	Funds Allocated	Source of Funds (ADP / Non-ADP)	Proposed Procurement Method	Timing of Procurement				Remarks
								1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	
1	ADP # 28 Provision of Assistance to Farmers on Purchase of Wheel Type Tractors Phase-IV (SDG # 2)	5492 Nos. Wheel Type Tractors	-	Rs. 1500.0 Million	Rs. 1500.0 Million	ADP	Pre-qualification of Tractors Manufacturers	✓	✓	-	-	All Procurement under SPPRA Rules and subjected to the Release of funds.
2	ADP # 29 Provision of Solar Water Pumps / Tubewells on Subsidized Rate to Farmers in Sindh. (Revised) GOS Share Rs. 802.00 Million Farmers Share Rs. 198.00 Million Total Rs. 1000.00 Million. (SDG # 2, 6)	138 Nos. Solar Water Pumps	-	Rs. 563.858 Million	Rs. 563.858 Million	ADP	Pre-qualification of Contractors	✓	✓	-	-	All Procurement under SPPRA Rules and subjected to the Release of funds.
3	ADP # 30 Replacement of Earth Moving Machinery Phase-III (SDG # 2)	32 Nos. Bulldozers & Allied Transportation Equipment	-	Rs. 600.0 Million	Rs. 600.00 Million	ADP	Single Stage Two Envelope Procedure	✓	✓	-	-	All Procurement under SPPRA Rules and subjected to the Release of funds.
4	ADP # 31 Subsidy Assistance on Agriculture Implements for Farm Mechanization Phase-II. (SDG # 17)	555 Nos. Various Agriculture Implements	-	Rs. 60.0 Million	Rs. 60.0 Million	ADP	Pre-qualification of Manufacturer / Supplier	-	✓	✓	✓	The different of cost would be adjusted through re-appropriation All Procurement under SPPRA Rules and subjected to the Release of funds.
5	ADP # 32 Preservation and Storage Facility of Fruits & Vegetable through Hot Water Treatment & Controlled Atmospheric Store on Subsidy to Farmers	02 Nos. Hot Water Treatment Plant 02 Nos. Controlled Atmospheric Stores	-	Rs. 336.00 Million	Rs. 242.027 Million	ADP	Pre-qualification of Manufacturer / Supplier	-	-	✓	✓	All Procurement under SPPRA Rules and subjected to the approval of Scheme and release of funds.

Sr. No.	Description of Procurement	Quantity (Where Applicable)	Estimated Unit Cost (Where Applicable)	Estimated Total Cost	Funds Allocated	Source of Funds (ADP / Non-ADP)	Proposed Procurement Method	Timing of Procurement				Remarks
6	ADP # 34 Provision of Assistance to Farmers on Purchase of Wheel Type Tractors Phase-V (SDG # 2)	1832 Nos. of Wheel Type Tractors	-	Rs. 500.0 Million	Rs. 500.0 Million	ADP	Pre-qualification of Tractors Manufacturers	✓	✓	-	-	All Procurement under SPPRA Rules and subjected to the Release of funds.
7	ADP # 35 Provision of Power Drilling rigs Machine on Hire Charges basis to Farmers in Sindh (SDGS # 1, 2, 6)	01 No. Power Drilling Rigs & Allied Transportation Equipment	-	Rs. 130.0 Million	Rs. 100.00 Million	ADP	Single Stage Two Envelope Procedure	✓	✓	-	-	All Procurement under SPPRA Rules and subjected to the Release of funds.
8	ADP # 37 Strengthening Agricultural Engineering through Capacity Building of Staff, Youth Entrepreneurship through Technology Support (SDGS # 1, 2, 6)	Procurement of Furniture, Machinery & Equipments for the 14 Agriculture Engineering Workshops	-	Rs. 200.0 Million	Rs. 200.00 Million	ADP	Single Stage Two Envelope Procedure	✓	✓	-	-	All Procurement under SPPRA Rules and subjected to the Release of funds.
9	ADP # 38 Provision of Combined Harvester, Wheat and Paddy on (50%) Subsidy to Farmers in Sindh (SDGs # 17) (GOS Share Rs. 300.00 Million + Rs. 284.500 Million)	08 Nos. Combined Harvesters + 10% Spare Parts	-	Rs. 75.0 Million	Rs. 75.00 Million	ADP	Single Stage Two Envelope Procedure	✓	✓	-	-	All Procurement under SPPRA Rules and subjected to the Release of funds.


DIRECTOR
AGRICULTURE ENGINEERING SINDH
HYDERABAD

PRE QUALIFICATION DOCUMENT



GOVERNMENT OF SINDH

Name of Department : Director Agriculture Engineering Sindh
Hyderabad

Name Project /Scheme: Subsidy Assistance on Agriculture Implements
For Farm Mechanization Phase-II

Name of Procuring Agency : Director Agriculture Engineering Sindh
Hyderabad

Documents submitted by: _____



**DIRECTORATE
AGRICULTURAL ENGINEERING
SINDH HYDERABAD**

No. DAE /Stores-968/ 3130 /17
Hyderabad dated the 06-09-2017

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Director Agriculture Engineering Sindh Hyderabad has an allocation of funds from Government of Sindh for the Project/Scheme "*Subsidy Assistance on Agriculture Implements for farm Mechanization Phase-II*" Scope, Estimated Cost and other details are as under:-

- (i) **Scope:** Enhancement for Farm Mechanization is Sindh.
- (ii) **Estimated Cost:** Rs. 60.00 million
- (iii) **Project Period:** up to 30th June 2018.
- Eligibility:** Valid Registration with relevant tax authorities.

Pre-qualification documents: Interested Implements Firms / Manufacturers can obtain the pre-qualification documents from the office of Director Agriculture Engineering Sindh Block "B" Shahbaz building Hyderabad, On payment of non-refundable fee of **Rs. 1000/-**. The pre-qualification documents can also be downloaded from the websites of Agriculture Department and SPPRA authority and submitted along with the tender fee as indicated above.

Documents can be dispatched by Courier service on the written request for which return envelope should be provided with the application however, under no circumstances the Procuring Agency will be responsible for late delivery or loss of the documents so mailed.

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Dead line of Submissions: Documents duly filled and attached with relevant certificates must reach on the address mentioned above on or before **26.09.2017** upto **12:30 PM** and will be opened on same date at **01:00 PM** by the Procurement Committee in the Committee Room of Director Agricultural Engineering Sindh Hyderabad. In case chairman of Procurement committee is not available the document can be submitted on next day and opened accordingly at same time & Place.

Interested firms should submit their inquires/applications/documents to the following:-

Address	Director Agriculture Engineering Block "B" Shahbaz building Sindh Hyderabad
Telephone No	022-9200059
Fax No.	022-9200077
Email	director.dae@gmail.com
Focal Person	Deputy Director (Mech)

Procuring Agency may reject any or all applications subject to the relevant provisions of Sindh Public Procurement Rules 2010 (amended 2013).

Applicants will be informed, regarding the result of the evaluation of applications in due course of time. Single stage two envelop procedure would be adopted for this tender, and only the Firm / Manufacturer who have been pre-qualified shall be entitled to participate further in procurement proceedings.

**DIRECTOR
AGRICULTURE ENGINEERING
SINDH HYDERABAD**



4.0 Section I. Instructions to Bidders/Applicants (ITB).

Clause 1: The Manufacturing/firm shall enclose the (one original and (1 One) duplicate copy) of the documents in a sealed.

Envelope which shall:-

- (a) bear the name and address of the Applicant;
- (b) be delivered by hand or through courier/registered mail to address mentioned in advertisement for pre-qualification or in document; and
- (c) be clearly marked "Application for Pre-qualification for **Subsidy Assistance on Agriculture Implements for farm Mechanization Phase-II.**

Clause 2: If the envelope is not sealed and marked as required, the procuring agency will assume no responsibility for the misplacement or pre-maturing opening of the document.

Clause 3: Document shall be prepared in the English language. In case of ICB, the information provided in any other language shall be accompanied by English translation also.

Clause 4: Manufacturing/firm must respond to all questions and provide complete information as advised in this document. Any lapses to provide essential information may result in dis-qualification of the manufacturing/firm.

Clause 5 Clarification and Modification of Documents (SPP Rule 23).

Manufacturing/firm, who has obtained documents, may request for clarification of contents of the bidding document in writing, and respond to such queries shall be made in writing within three calendar days, provided they are received at least five calendar days prior to the date of opening of bid.

Clause 6 Addendum: At any time prior to the deadline for submission of documents, the agency may amend the Prequalification Document by issuing addenda. Any addendum issued shall be part of the Prequalification Document and shall be communicated in writing to all who have obtained the prequalification document.

Clause 7 Deadline for submission of Documents (SPP Rule 22 & 24):

Documents shall be received by the agency at the address Director Agriculture Engineering Block "B" Shahbaz building Sindh Hyderabad, Tel # 022-9200059, Fax # 022-9200077, not later than the 26.09.2017 at 12:30 PM. The procuring agency may, at its discretion, extend the deadline for the submission of documents by amending the Prequalification Document, and in which case all rights and obligations of the Agency and the Manufacturing/Firm subject to the previous deadline shall thereafter be subject to the deadline as extended.

**SIGNATURE & STAMP
OF CONTRACTOR**



Clause 8 Evaluation (Rule 27 (2)):

Manufacturing/firm general and particular experience, personnel and equipment capabilities, and financial position, as demonstrated by the Applicant's responses in the prescribed forms will be evaluated as per evaluation criteria given in the document. The Procuring Agency reserves the right to waive minor deviations, if these don't materially affect the capability of an applicant to perform the contract. Sub-contractor's experience and resources shall not be taken into account in determining the manufacturing/firm compliance with the qualifying criteria. However, Joint Venture experience & resources shall be considered. Consortium or Association of firms will be considered for similar treatment as in case of Joint Venture.

Clause 9 Clarification of Prequalification Information (Rule 43):

To assist in the evaluation of information, the agency may, at its discretion, ask any manufacturing/firm for a clarification of any information which shall be submitted within a stated reasonable period of time. Any request for clarification shall be in writing. If any manufacturing/firm does not provide clarifications of the information requested by the date and time set in the agency's request for clarification then application of the manufacturing/firm may be rejected.

Clause 10 Verification of Prequalification Information (Rule 28 (1d)):

Verification of the information provided by the pre-qualified/short listed Manufacturing Firm in the submissions for prequalification may be made. In case the information is found to be wrong or incorrect in any material way or manufacturing/firm is found to be lacking in the capability or resources to successfully perform the contract, then it shall not be pre-qualified.

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OF CONTRACTOR



5.0 Section II: Evaluation/Qualification Criteria.

S#	Description	Responsive (Yes)	Non Responsive (No)
1	Type of Bidders		
2	Valid Registration certificate of NTN from income tax authorities and G.S.T. Registration Certificate, Sindh Board of Revenue (attach Copy)		
3	Document indicating the Manufacturer / firm is in this business at least 3 years. (attach evidence)		
4	Evidence of completing (2) Two similar assignment in last 2 years		
5	Evidence of completing at least 1(one) such assignment in Sindh during last years. (Attach evidence along with performance certificate of completed project)		
6	Key personnel qualification & Experience (fill & attach the form)		
7	Equipment capabilities owned by the Manufacture. (fill and attach the form)		
8	Documentary evidence of financial position i-e bank statement or evidence of accounts of last 3(three) years. (attach evidence)		
9	Item wise monthly production capacities		
10	Warranty obligation (indicate period)		
11	Provision of operating Manual (Attach copy of Manual)		
12	Provision of after sales service (provide list of authorized dealers in Sindh, name, address No. & contact No.		

Note:-

Supplier / Manufacturing firm who fail to qualify in any of the above sections shall be disqualified from the prequalification process. All Sr. No. 3 above in case the firm is not registered with G.S.T authorities, the firm will be charged additional rate of G.S.T for non/registered firms.

**SIGNATURE & STAMP
OF CONTRACTOR**



6.0 Section III. Application Forms:

A-I Application Submission Form

Dated: _____

The Director Agriculture Engineering Sindh Hyderabad.

Dear Sir,

Subject: Pre-Qualification of Subsidy Assistance on Agriculture Implements for Farm Mechanization Phase-II

I..... the undersigned, being duly authorized to represent and act on behalf of applies to be pre qualified for the project cited above and enclose one (1) original (together with Duplicate copy) of pre-qualification document and declare the following :

- (a) I have examined and have no reservation to the Prequalification Documents, including Addenda No(s) 1 to 10, issued in accordance with ITB Clause 6.
- (b) I understand that procuring Agency may cancel the prequalification process at any time and that procuring Agency is not bound either to accept any application that it may receive or to invite the pre qualified applicants to bid for the contract subject of this prequalification, without incurring any liability to the Applications.

I am agrees with following Terms & Conditions.

- (i) Bids by pre qualified applicants will be subject to verification of all information submitted for prequalification at the time of bidding;
 - (ii) Agency reserves the right to amend the scope and value of any contract under this project; in such event bids will only be called from pre qualified bidders who meet the revised requirement;
2. The Procuring Agency and its authorized representative(s) may contact the following person(s) for further information, if needed:

Person to be contacted:

Telephone:

3. The undersigned declares that the statement and the information provided are complete, true and correct in every detail.

Signed: _____

Name: _____

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OF CONTRACTOR



A-II

1. Company Profile

Date: -----

Contract: -----

All individual firms and each partner of a joint venture applying for prequalification are requested to complete the information in this form.

1	Name of firm:	
2	Nature of Business:	
3	Head Office Address:	
4	Telephone Fax numbers: E-mail address:	
5	Place of Incorporation/Registration: Year of incorporation/registration:	
6	Applicant's authorized representative: Telephone Fax numbers: E-mail address:	
7	<u>NATIONALITY OF OWNERS.</u>	
	Name:	Country:

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OF CONTRACTOR**



A-III

2. General Experience Record

(i) Details of Contracts of Similar Nature and Complexity completed over the last 05 years.

Description	1	2	3	4	5
Name of Contract:					
Name of Procuring Agency With Address, Tele, Fax.					
Nature of works and special features relevant to the contract for which applied:					
Value of the total contract in Pak/Rs:					
Date of Award:					
Date of Completion					

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OF CONTRACTOR



(ii) Projects of similar nature and complexity in hand.

Manufacturing/firms and each partner of the joint venture should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, for which Completion Certificate has yet to be issued.

Name of Contract	Value of Contract	Name of Procuring Agency	Value of Outstanding Work (Equivalent Pak Rs. Millions)	Estimated Completion Date

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OF CONTRACTOR**



A-IV

4 (A) Personnel Capabilities

Manufacturing/firm should provide the names of suitably qualified personnel to meet the specified requirements stated in Section 3 (Evaluation and Qualification Criteria).

Sr. No.	Title of Position	Name
1	<u>Factory Engineer</u> Graduate Engineer experience of 2 similar assignments with maximum 7 years experience.	
2	<u>Quality Control Supervisor</u> At least a Diploma holder, experience of 1 similar assignment with 3 years experience.	
3	<u>Production Supervisor.</u> At least a Diploma holder, experience of 1 similar assignment with 3 years experience.	
4	<u>Workshop Staff.</u> 1. Machinist. 2. Fabricator. 3. Welder. 4. Painter. 5. Black Smith. 6. Molder. 7. Etc. Diploma/Certificate course with 2 years experience or in case of no such Diploma/ Certificate 10 years of experience	

Note: - Provide CV of the Staff.

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OF CONTRACTOR

**A-VI**

5. Manufacturing/firm shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment whether owned/ leased/ rented listed in Section 3 (Evaluation and Qualification Criteria).

A. Equipment Capabilities (owned by the Manufacturing/firm)

S#	Name of Equipment	Name of Manufacture	Model and Power Rating	Capacity	Year of Manufacture	Current Location
1	Lathe Machine					
2	Milling Machine					
3	Shaper Machine					
4	Slotting Machine					
5	Drill Machine					
6	Hack Saw Machine					
7	Hydraulic Press Machine					
8	Sheet banding Machine					
9	Sheet cutting / pattern Machine					
10	Furnace Machine					
11	Measuring & calibrating Kits/ equipment					
12	Any other Machine. (attaché separate list)					

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OF CONTRACTOR



A-VII

6. Financial Resources.

A. Banker's Information:

Sr. NO.	Name & Address of Bank	Contact name and title	Telephone, Fax & E- Mail Address

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OF CONTRACTOR

**Section IV. Scope of Contract: (Description of works and Period of completion)****WORK PLAN**

S#	Description	Quantity	Period of Completion	Firm Should Tick the Implements to be interested
1	Rotavators	24	30 TH June 2018	
2	Ridgers	24	30 TH June 2018	
3	M.B. Plough 3	24	30 TH June 2018	
4	Cultivator 13 Tines	24	30 TH June 2018	
5	Disc Harrow (16 Disc) / Gobar	24	30 TH June 2018	
6	Tractor mounted spray (boom spray)	23	30 TH June 2018	
7	Wheat Seed Drill	24	30 TH June 2018	
8	Wheat Thresher	96	30 TH June 2018	
9	Border Disc	24	30 TH June 2018	
10	Chisel Plough (3 Tines)	24	30 TH June 2018	
11	Chisel Plough (5 Tines) with Roller	24	30 TH June 2018	
12	Front Blade	25	30 TH June 2018	
13	Paddy Thresher 6ft	76	30 TH June 2018	
14	Paddy Thresher 7ft	48	30 TH June 2018	
15	Disc Plough	24	30 TH June 2018	
16	Hydraulic Scraper	24	30 TH June 2018	
17	Bed Shapper Planter for Cotton	23	30 TH June 2018	
	TOTAL	555	--	

- Quantities indicated are subject to release of funds and choice of farmers to procure a particular brand amongst the prequalified manufacturer.

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OF CONTRACTOR



TECHNICAL SPECIFICATION



Sr No.	Description	Required Specification	Qty
1	ROTAVATORS		24 Nos.
GENERAL			
	Type	Mounted	
	Category	I & II	
	Working width	1.6 m	
	Tractor Power	50 + HP	
	Power Transmission system	Gear train with lubrication housing and cover	
	No. of Blades	36 & 42	
	Blade spacing	225-250 mm	
	U.I. shaft	01 No.	
	Rotor speed (min)	220 rpm @ 540 Pto speed.	
OVERALL DIMENSIONS			
	Length	1800 mm	
	Width	1000 mm / 1200 mm	
	Height	1100 mm	
	Approx. Weight	400 kg / 350 kg	
MATERIAL SPECIFICATIONS			
	Frame	01 No. M.S. box of 62 x 62 x 6 mm with 02 Nos. Supports of 12 mm and 02 Nos. 9 mm M.S plate.	
	Mast (A-Frame)	M.S. sheet metal 6 mm with reinforced front ends or 04 Nos. alloy steel flat 50 x 10 mm.	
	Blades rotator pipe	Seamless steel pipe o.d. 88 mm wall thickness 9 mm With forged axle end of 60 mm or alloy steel pipe o.d. 75 mm. 6-7 mm wall thickness.	

Contd..... P/16



Blades mounting plate	08 Nos. M.S. Plate 10-12 mm.	
Gear box Transmission shaft	Cast Iron or Cast Steel M.S. 65 mm with safety cover of 88 mm o.d. and 3 mm wall thickness or alloy steel 50 mm dia, with Safety pipe cover of o.d. 87 mm and 4-5 mm wall Thickness.	
Blades (imported)	L-shaped. Forged. Heat treated. 6-7 mm thick. Made in France	
Sheet metal		
Top cover	3-4 mm M.S. reinforced at bends	
Side plates	6-8 mm M.S.	
Rear cover	3-4 mm M.S.	
Skids	10-12 mm M.S. flat	
Bearings	All Bearing shall be NTN Made in Japan/Europe	
Gears	Heat treated, steel gears imported	
Parking stand	G.I. or steel pipe	
<u>MISCELLANEOUS</u>		
Paint	Double coating with primer after surface finish	
Nuts and bolts	To be tightened with spring washers	
Bearings (New)	Europe / Japan NTN And Australia	
Origin	Local Made Imported	
Modifications	To be carried out free of cost if required	
Warranty	Free: One year for parts and service Extended: Five years for parts supply on payment.	

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S.#	Description	Required Specification	Qty
2	RIDGER		24 Nos.
<u>GENERAL</u>			
Type	Rear mounted tool bar type for earthing up.		
Linkage category	I & II		
Ridgers	03 Nos.		
Tractor Power requirement	50 + HP		
Ridger sparing on frame	Adjustable, with standard setting of 760 mm		
Clearance (under frame)	550 mm		
<u>OVERALL DIMENSIONS</u>			
Overall length	1400 mm		
Overall height	1050 mm		
Overall width	1778 mm		
Approximate wt.	260 kg		
<u>MATERIAL SPECIFICATIONS</u>			
Main frame	Box frame type 100 x 100 x 8 mm		
	Made from M.S rolled Angle 8 mm thick		
Mast (A-Frame) Shares	M.S Plate 8 mm thick Replaceable HOE type Cabin Sheet 8 mm Thickness.		
Wings	M.S sheet 6 mm replaceable adjustable		
Tines	forged 70 x 25 mm		
Assembly Plate	M.S sheet Sq : 175 mm x 175 mm x 13mm thick		
<u>MISCELLANEOUS</u>			
Paint	Double coating after primer and Surface finish		
Nuts & bolts	tightened with spring washers		
Modifications	To be carried out free of cost If required.		
Modifications	To be carried out free of cost if required.		
Warranty	complete 1 year including parts and service Extended: 5 years for parts supply		

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Sr No.	Description	Required Specification	Qty
3	M.B. PLOUGH (03 BOTTOMS)		24 Nos.
<u>GENERAL</u>			
Type		Mounted	
No. of Bottoms		03	
Linkage category		I & II	
Tractor Power Requirement		50 HP	
Clearance under frame (min)		500 mm	
<u>OVERALL DIMENSIONS</u>			
Length		1825.mm	
Width		1100 mm	
Height		925 mm	
Approx. weight		300 kg	
<u>MATERIAL SPECIFICATIONS</u>			
Main Frame		Made by M.S Sheet Channel Box 4"x4"x8mm thick	
Mast (A-Frame)		62 x 15 mm M.S. flat	
Cross bar		50 mm M.S. round	
Mould board		725 x 325 x 6 mm M.S. sheet formed	
M.B. extension		6 mm M.S. sheet	
Share		350 x 125 x 9 mm heat treated and hardened steel	
Chisel bar		700 x 32 x 32 mm replaceable adjustable and reversible heat treated and hardened steel.	
Land side		340 x 80 x 10 mm heat treated and hardened steel.	
Frog		10 mm M.S. Plate M.S Sheet	
Tine (3 No)		Hard plate 650 x150 x32 mm	

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<u>MISCELLANEOUS</u>		
Paint	Double coating with primer after surfacing finish	
Nut & bolts	To be tightened with spring washers	
Origin	Local made/Imported.	
Modifications	To be carried out free of cost, if required	
Warranty	Free: One year for parts and service. Extended: Five years for parts supply on payment.	

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Sr No.	Description	Required Specification	
4.	CULTIVATOR (13 TINES)		24 Nos.
<u>GENERAL</u>			
Type		Tractor Mounted	
No of Bottom		11 / 13 Tines	
Linkage Category		I & II	
Tractor Power		50 H.P & ABOVE	
<u>OVERALL DIMENSIONS</u>			
Length		2337 mm	
Width		889 mm	
Height		1067 mm	
Approx weight		250 Kg	
<u>MATERIAL SPECIFICATIONS</u>			
Main Frame Made By MS Angle		76 mm x 9.75 mm x 2337 mm	
Mast (A-Frame) Made by MS Plate		9.75 mm x 863 mm x 533 mm	
No. of Tines		11 Nos, 21" x 2 ¼" x 1"	
No. of Spring		22 No , 10 mm x 305 mm	
No. of Share		11 Nos (Heavy Duty)	
No. of U Supports		11 Nos.	
No. of Pins		17 Nos, 152 mm x 22 mm (Round)	
<u>MISCELLANEOUS</u>			
Paint		Double coating with primer after surface finish	
Nut & Bolts		To be tightened with spring washers	
Origin		Local Made	
Modification		To be carried out free of cost. If required.	
Warranty		Free: One year for parts & Service. Extended: Five years for parts on Payment.	

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Sr No.	Description	Required Specification	Qty
5	DISC HARROW (16 DISCS)		24 Nos.
GENERAL			
Type		Trailed cum mounted offset	
Front disc gang		Scalloped / notched	
Rear disc gang		plain	
Linkage category		II	
Tractor power		60 + HP	
Bearing		Bearing shall be NTN Japan/Europe	
Disc spacing		229 + mm	
Disc dimension		650 mm dia, 5 mm thick	
OVERALL DIMENSIONS			
Length			
Mounted position		2200 mm	
Trailed position		3400 mm	
Width		2000 mm	
Height		Adjustable	
Mounted position		1725 mm	
Trailed position		940 mm	
Approx. weight		675 kg	
MATERIAL SPECIFICATIONS			
Main frame		02 Nos. square box 125 x 125 x 6 mm M.S Rolled channels	
Mast (A-Frame)		Inverted T-type.02 Nos. M.S. box 75 x 75 x 6 mm 775 mm long (each) reinforced with 9 mm M.S Plate	
Hitch assembly		25 mm dia M.S round hook. 18 mm M.S plate Bracket and 12 mm M.S plate hitch	
Mast support		75 x 12mm M.S. flat or 50 x 50 x 6 mm M.S. box	
Hitch brackets		75 x 25mm M.S. flat. Reinforced with 6 mm M.S. Sheet	
Disc		France/ Italy	

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Disc spacer	C.I./M.S. with male female hex	
Disc scraper	5 mm M.S. sheet	
Gang shaft	68 mm M.S round	
Gang angling beam	M.S. box 75 x 75 x 6 mm with adjusting holes	
Pivot assembly	C-type yoke/bracket made form 25 mm M.S. plate and 6 mm M.S. sheet. M.S bush made form 9 mm Wall thickness pipe and 45 mm dia pin	
Gauge / gang standard	12 mm corrugated or reinforced with 9 mm M.S Flat welded to main frame.	
Gauge / transport wheel		
Wheel	02 Nos. 6.00-16, pneumatic with rims	
Hub	04 Nos. steel cast	
Roller Bearing	04 Nos. 6207 & 04 Nos. 6206	
Axle	02 Nos. 35 mm dia M.S.	
Mounting	02 Nos. M.S. box 62 x 62 x 6 mm 635 mm long	
Stabilizer bar	02 Nos.50 x 50 x 6 mm M.S box 1065 mm long	
<u>MISCELLANEOUS</u>		
Paint	Double coating with primer after surface finish	
Nuts and bolts	To be tightened with spring washers	
Bearings (New)	Europe/Japan (NTN)	
Origin	Local made/Imported.	
Modifications	To be carried out free of cost if required	
Modifications	Free : One year for parts and service	
Warranty	Extended: Five years for parts supply on payment	

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Sr No.	Description	Required Specification	Qty
6	TRACTOR MOUNTED SPRAY BOOM SPRAYER		23 Nos.
<u>GENERAL</u>			
Type	Tractor rear mounted		
Linkage category	I and II		
Spray tank capacity (L)	500-600		
Boom width	45 ft (5 sections)		
Boom height (adjustable)	200 – 1800 mm		
Nozzle tips (imported)	02 sets hollow cone & flat fan 0.75-1.0 L/, min @ 3 bar		
Nozzle spacing	381 mm		
Pump	Plunger, PTO driven, capacity @ pressure 40 bar		
Pressure gauge	0-25 kg/cm glycerin filled (80-120 L / Min)		
Pressure control chest	Adjustable (3 way)		
U.J. shaft	01 No.		
<u>OVERALL DIMENSIONS (mini)</u>			
Length	1200 mm		
Height	1700 mm		
Width (folded)	3300 mm		
Approximate weight	470 kg		
<u>MATERIAL SPECIFICATIONS</u>			
Frame	M.S box 65 x 50x5 mm & M.S angle 50 x 9 mm with 62 x 12 mm M.S plate hitch.		
Boom sliding (frame0	C-shaped formed M.S. sheet 4 mm having 60 x 40 mm size		
Boom frame spacer	125 x 65 x 5 mm M.S. channel		

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Tank	synthetic (fiber glass with graduate scale)	
Book sections	Spring loaded (back lash mechanism)	
Central	01 No.M.S. box 50 x 4 mm & Two Nos support 30 x 12 x 2 mm	
Middle	02 Nos. M.S.box 30x30x3.5 mm with supports of M.S Box 30 x 12 x 2 mm and 4 Nos. 25 x 2.5 mm supports	
External	02 Nos. M.S. box 30 x 30 x 2.5 mm with supports of M.S.	
	Plate x 30 x 5 mm	
Origin	Local made/Imported	
Make	Local/Imported	
Warranty	Complete: One year for parts and service Extended: Five years for parts supply	

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Sr No.	Description	Required Specification	Qty
7	WHEAT SEED DRILL		24 Nos.
GENERAL			
	Furrow Opener	Fixed type shanks	
	Wheels	Suitable size Pneumatic wheels tyre size 500-10 for precise seed & fertilizer distributions.	
	Frame	Angle steel, Reinforced at corners.	
	Gear Box	Single Speed, with Neutral gear for free derive, flute type seed metering mechanism to sow wheat other grain, Seed and mechanism clacing fertilizer on sides about 1" from seed and about 1.0 to 1.5" below the seed.	
	Technical Specifications	Galvanized sheet size 18 SWG set boxes for seed & fertilizer.	
	Width	8 feet	
	Weight	Approx – 224 Kg	
	Length	About 6 feet.	
	Witch Category	cat II	
	Seed Capacity	220 kg	
	Fertilizer Capacity	300 kg	
	Number of rows / tines	12 Nos. in two rows 6 in each	
	Sowing Spacing	6 inches	
	Sowing depth	3"-4"	
	Total sowing width	6 feet	
MISCELLANEOUS			
	Paint	Double coating with primer after surfacing finish	
	Nut & bolts	To be tightened with spring washers	
	Origin	Local made/Imported	
	Modifications	To be carried out free of cost, if required	
	Warranty	Free: One year for parts and service. Extended: Five years for parts supply on payment.	

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Sr No.	Description	Required Specification	Qty
8	WHEAT THRESHER		96 Nos.
<u>GENERAL</u>			
Type	Automatic Tractor towed		
Tractor Power Requirement	50 HP or above		
Threshing Capacity	1200-1500 Kg/h		
Wheels	2 Nos. of 600-16		
No. of Blower	02		
No. of Sieves	04		
Bearings	All bearings shall be Europe / Japan NTN		
P.T.O. Shaft	2 Nos. 6309		
Threshing Shaft	3 Nos. 6313		
Feeder Shaft	2 Nos. 6209		
Cam Shaft	2 No. 6307 1 No. of 6215. 1 No. of Water body.		
Craddle	4 Nos. 6205		
Tyre	2 Nos. 6206 and 2 Nos. 6207		
Threshing Drum Speed	750-800 rpm		
V-Belts	B & C type		
Power Transmission	P.T.O. Shaft through safety clutch or pm pully		
<u>OVERALL DIMENSIONS</u>			
Overall Width	1700 mm		
Overall Height	1900 mm		
Overall Length	4100 mm		
Approx weight	1700-1800 Kg		

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<u>MATERIAL SPECIFICATIONS</u>		
Frame	75 x 75 x 6 mm 62 x 62 x 6 mm M.S. Angle Iron and M.S. sheet formed channel.	
Hitch	4 mm M.S. sheet formed channel	
Drum Sheet Cover	3 mm M.S. sheet	
Threshing Drum (4 ½ Feet width)		
Rings	05 Nos. 50 x 8 mm M.S. or C 1	
Cutter Plate	50 x 12 mm M.S 12 mm M.S. flat	
Cutter	87 Nos. 50 x 8 mm M.S. flat	
Blower	1000 x 250 mm width 4 paddles 3 mm M.S. sheet	
Feeding hopper chute	13-14 gauge MS. Sheet	
Balancing Wheels	02 Nos. cast from 700 mm dia.	
Concave	9 x 9 mm Square or 6 x 9 mm rear M.S. bar	
Shafts		
PTO	50 mm M.S. round Cold drawn	
Feeder	50 mm M.S. round Cold drawn	
Threshing	75 mm M.S. round Cold drawn	
<u>MISCELLANEOUS</u>		
Paint	Double coating with primer after surface finish	
Nut & Bolts	To be tightened with spring washers	
Spare Tyre	1 No. along with Wheel spanner	
Bearing	New Europe / Japan NTN	
Modifications	Complete one year free of cost. If required.	
Warranty	Complete one year for parts and service. Extended: Five years for parts supply.	

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Sr No.	Description	Required Specification	Qty
9	BORDER DISC		24 Nos.
<u>GENERAL</u>			
Type	Tractor Mounted		
No of Bottom	02		
Linkage Category	I & II		
Tractor Power	50 H.P & ABOVE		
<u>OVERALL DIMENSIONS</u>			
Overall Width	1200 mm		
Overall Height	1200 mm		
Overall Length	1700 mm		
Approx weight	250 Kg		
<u>MATERIAL SPECIFICATIONS</u>			
02 Nos Disc (France)	70 cm x 70 cm x 4 mm/ 62 cm x 62 cm x 6 mm M.S. Angle Iron and M.S. sheet formed channel.		
Main Frame Made By MS Angle	4 mm M.S. sheet formed channel		
Mast (A-FRAME) Made by MS Plate	3 mm M.S. sheet		
No. of Casting Hub	50 x 12 mm M.S 12 mm M.S. flat		
No. of Stand	87 Nos. 50 x 8 mm M.S. flat 1 No.		
No. of Bearing	4 Nos Bearing		
<u>MISCELLANEOUS</u>			
Paint	Double coating with primer after surface finish		
Nut & Bolts	To be tightened with spring washers		
Origin	Local Made		
Modification	To be carried out free of cost. If required.		
Warranty	Free: One year for parts & Service. Extended: Five years for parts on Payment.		

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Sr No.	Description	Required Specification	Qty
10	CHISEL PLOUGH (3 TINES)		24 Nos.
<u>GENERAL</u>			
Type	Tractor Mounted 3 Linkage Category		
No of Tine	3 Tines Heavy Duty		
Application	For Break the Hard Land		
Tractor Power	65 HP		
<u>OVERALL DIMENSIONS</u>			
Height	1200 mm		
Length	900 mm		
Width	1500 mm		
Approx weight	300 Kg		
<u>MATERIAL SPECIFICATIONS</u>			
Main Frame	Fabricated by M.S sheet 6 mm & 10 mm and Rool Channel 50 mm x 100 mm x 6 mm with Adjust hole Linking plate M.S 12 mm welled by Main Frame.		
Tines	M.S Hard Tine 30 mm x 800 mm 3 Nos. with Adjusting Hole.		
Sharp Teeth	M.S and carbon Material 62 mm x 25 mm x 300 mm 3 Nos.		
Dro bar (MAST)	M.S Plate 12 mm x 355 mm x 100 mm		
<u>MISCELLANEOUS</u>			
Paint	Double coating with premier after surface finishing		
Modification	To be carried out on cost if required		
Warranty	Complete One year for parts and service Extended: Five years for parts supply.		

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Sr No.	Description	Required Specification	Qty
11	CHISEL PLOUGH (5 TINES) WITH ROLLER SYSTEM		24 Nos.
<u>GENERAL</u>			
Type	Tractor Mounted		
No. of Tine	5 Tine		
Linkage category	I & II		
Tractor Power	65 HP		
Tine	Folding Houe Type		
Bearing	6209 (Imported) 2 No.		
Rool	Folding System Depth Control Wheel		
Application	For Break the Hard Pane of Lyre		
<u>OVERALL DIMENSION</u>			
Height	1200 mm		
Length	1500 mm		
Width	2000 mm		
Approximate Weight	600 Kg		
<u>MATERIAL SPECIFICATION</u>			
Main Frame	Fabricated by seem less round pipe 125 mm x 6 mm with M.S Plate 10 mm.		
Tine	M.S Hard Tine 30 mm x 800 mm		
Sharp Teeth	M.S Carbon Material 62 mm x 25 mm x 300 mm		
Draw bar (MAST)	M.S Sheet 10 mm		
Rool	Fabricated by seem less round pipe 75 mm x 8 mm M.S Round Plate 6 mm, 8 mm and Angle Iron 40 mm x 40 mm x 6 mm with coplin hosing		
Attachment System	M.S Plate 10 mm with 1" x 5" bolt 4 Nos.		
<u>MISCELLANEOUS</u>			
Paint	Double Coating with premier after surface finishing		
Nut Bolts	To be tighted with spring washer		
Warranty	One Year for parts and service Extended: year's parts supply on payment.		

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Sr No.	Description	Required Specification	Qty
13	FRONT BLADE		25 Nos.
TECHNICAL SPECIFICATION			
<ul style="list-style-type: none">PLEASE SPECIFY YOURS.			

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Sr No.	Description	Required Specification	Qty
13	PADDY THRESHER (06 FT.)		76 Nos.
<u>GENERAL</u>			
Type	Automatic		
Application	For Threshing Paddy		
Power Requirement	35 to 50 HP Tractor		
Tyre	04 Nos. 750-16 General / Korea		
<u>OVERALL DIMENSIONS</u>			
Length	187 cm		
Width	181 cm		
Height	330 cm		
Approx: Weight	2000 kg		
<u>MATERIAL SPECIFICATIONS</u>			
Channel Frame	6x50x100 mm		
Angle Frame side	6x50 mm		
Jack Rod	38x305 mm		
Channel Frame	38x76.2 mm		
Pipe Excel Shaft	76.2 mm		
Channel Stand	38x76.2 mm		
P.T.O. Stand Angle	6x63.5 mm		
Top sheet	2 mm		
Chassis	4 mm		
Grain Plate Frame	2.25 mm		
Rooter Shim	9.5x50 mm		
Net Hole	16 mm		
Main shaft	70x273 mm		
Cam shaft	38x2540 mm		
Fan shaft	38x2362 mm		
Convener Top Worm	31.75x2362 mm		

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Worm Shaft	31.75x1219 mm	
Seat Pipe	76.2x1041 mm	
Fan Blade	6x209x330 mm	
Large Fan Sheet	3 mm	
Net	787.4x1600 mm	
Net Rod	9.5x1600 mm	
Draft Sheet	2 mm	
Grain Box	2.25 mm	
Vertical Pipe	254 mm	
<u>BEARING ASSEMBLING:</u>		
Bearings	All bearings shall be Europe / Japan NTN	
<u>BELT:</u>		
	All Belts shall be Europe / Korea Origin	
<u>PULLY</u>		
	457.2 mm	
	305 mm	
	127 mm	
	152.4 mm	
	127 mm	
	100 x 254 mm	
MISCELLANEOUS		
Paint	Double coating with premier and surface finish	
Nut & Bolts	To be tightened with spring washer	
Spare Tyre	1 No. along with Wheel Spanner	
Bearing	New Europe / Japan NTN	
Modifications	To be carried out free of cost if required	
Warranty	Complete one year free of cost for parts and service, extended five year for part supply on cost.	

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Sr No.	Description	Required Specification	Qty
14	PADDY THRESHER (07 FT.) (PLEASE SPECIFY)		48 Nos.
<u>GENERAL</u>			
Type			
Application			
Power Requirement			
Tyre			
<u>OVERALL DIMENSIONS</u>			
Length			
Width			
Height			
Approx: Weight			
<u>MATERIAL SPECIFICATIONS</u>			
Channel Frame			
Angle Frame side			
Jack Rod			
Channel Frame			
Pipe Excel Shaft			
Channel Stand			
P.T.O. Stand Angle			
Top sheet			
Chassis			
Grain Plate Frame			
Rooter Shim			
Net Hole			
Main shaft			
Cam shaft			
Fan shaft			
Convener Top Worm			

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Worm Shaft		
Seat Pipe		
Fan Blade		
Large Fan Sheet		
Net		
Net Rod		
Draft Sheet		
Grain Box		
Vertical Pipe		
<u>BEARING ASSEMBLING:</u>		
Bearings		
<u>BELT:</u>		
<u>PULLY</u>		
MISCELLANEOUS		
Paint		
Nut & Bolts		
Spare Tyre		
Bearing		
Modifications		
Warranty		

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Sr No.	Description	Required Specification	Qty
15	DISC PLOUGH (PLEASE SPECIFY)		24 Nos.
<ul style="list-style-type: none">• DISC IMPORTED. (PLEASE SPECIFY)• WEIGHT (PLEASE SPECIFY)• FRAME AND OTHER DIMENSION (PLEASE SPECIFY)			

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Sr No.	Description	Required Specification	Qty
16	HYDRAULIC SCRAPER		24 Nos.
<u>GENERAL</u>			
Type	II Linkage Category (Semi and fully Trailed)		
Hitching	Adjustable Drawbar for 55 Hp and 60 H.P.		
Application	For Leveling and Mud Shifting for long distance automatically.		
<u>OVERALL DIMENSION</u>			
Length	4000 mm		
Width	2250 mm		
Height	1000 mm		
Approx: Weight	1200 Kgs.		
<u>MATERIAL SPECIFICATION</u>			
Bracket Size	Fabricated by M.S Sheet Size 6 mm, 1375 mm x 1800 mm x 700 mm.		
Side Walls	M.S Sheet Size 6 mm (1375 mm x 700 mm)		
Front Walls			
Main Frame	Made by Rolled Channel 150 mm x 70 mm x 6mm fully Sq Box.		
Mechanical with Hydraulic System	M.S Sheet 25mm flat 75 mm x 25 mm Shaft 45 mm M.S Pipe 100 mm Etc.		
Hydraulic Jack	2 No. Hydraulic Jack with 380 mm and hydraulic Pipe Line		
Tyre	2 No. Size 650 x 16 with Rim 2 No.		
Hub	Size J-4 Heavy duty made by Cast Iron with Roller Bearing No. 7512 - 2 Nos. + 7515 - 2 Nos.		
Axle	M.S Sq: Axle (Solid) 75 x 75 mm		

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Sr No.	Description	Required Specification	Qty
17	BED SHAPER / PLANTER		23 Nos.
GENERAL			
	Tractor Horse Power	75 HP	
	Nos of Rows	2/ 2.5	
	Linkage Category	11	
	Row Spacing	30"	
	Furrow opener	RIDGER HDE TYPE	
	Seed Metering System	Flute Wheel	
	Drive Mechanisms	Wheel Dia 20" with Chain Spocket Bearing	
	Seed Rate	Adjustable 2.5 to 10 Kgs	
	Frame	100 x 100 x 6mm Length Box 50 x 50 x 50mm	
	Drawbar	10mm Sheet With Flate Box 50x 50 x50mm	
	Bed Shaper	Frame Size 10 Ft x 1.5 Ft With M.S Angle 1.5x1.5x4mm With M. 5 Plate 3mm.	
	Seed Box	M.S Sheet 1.0mm	
	Furrow Opener	M.S Sheet 4mm 10mm Hard Tip	
	Paint	Under COAT with Premier COAT	

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