

PRE QUALIFICATION DOCUMENT



GOVERNMENT T OF SINDH

Name of Department : Director Agriculture Engineering Sindh
Hyderabad

Name Project /Scheme: Subsidy Assistance Agriculture Implements For
Farm Mechanization

Name of Procuring Agency : Secretary Agriculture, Supply & Price
Department, Government of Sindh Karachi.

Documents Issued to: _____



واٽرڪورس پڪاڪرائي، پاني بچايو ۽ پيداوار وڌايو۔



DIRECTORATE AGRICULTURAL ENGINEERING SINDH HYDERABAD

No. DAE /Stores-955/1809/13
Hyderabad dated the: 21-11-2013

NOTICE INVITING TENDER FOR PRE-QUALIFICATION OF CONTRACTORS.

Agriculture, Supply & Price Department, Government of Sindh has received funds from Government of Sindh for the Project/Scheme " Subsidy Assistance on Agriculture Implements for farm Mechanization" Scope, Estimated Cost and other details are as under:-

- (i) **Scope:** Enhancement for Farm Mechanization in Sindh.
- (ii) **Estimated Cost:** Rs.150.00 million
- (iii) **Project Period:** up to 30th June 2014.

Eligibility: Valid Registration with relevant tax authorities and Certificate confirming registration under Factory Act as an Agriculture Implements Manufacturer.

Pre-qualification documents: Interested Implements Manufacturer 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/-.

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 from date of publication in Newspapers till 17-12-2013 upto 10:30 am.


Dead line of Submissions: Documents duly filled and attached with relevant certificates must reach on the address mentioned above on or before 17-12-2013 upto 11:30 am and will be opened on same date at 12:00 noon by the Procurement Committee in the Committee Room of Director Agricultural Engineering Sindh Hyderabad.

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 (Tech)

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

Applicants will be informed, regarding the result of the evaluation of applications in due course of time. Only the manufacturer to be pre-qualified under this process will be invited to bid.


DIRECTOR
AGRICULTURE ENGINEERING SINDH
HYDERABAD

زرعي انجنيئرنگ ۽ توسعي عملو هر علائقي ۾ آبادگارن جي رهنما ٿي جي لاءِ مقرر آهن انهن سان رابطو ڪريو۔

سڀني ڏينهن کي همولو ۽ پاني جي بچت لاءِ ليزر ليورڪرائي تي حاصل ڪريو۔ زرعي دوآئون هو شياري سان ليل ٿي استعمال ڪريو۔
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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.**

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 disqualification 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 17.12.2013 .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.

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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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5.0 Section II: Evaluation/Qualification Criteria.

S#	Description	Responsive (Yes)	Non Responsive (No)
1	Type of Bidders		
2	Valid Certificate of Registration containing I factory as manufacturer of Agriculture Implements. (attach Copy)		
3	Valid Registration certificate of NTN from income tax authorities and G.S.T. Registration Certificate (attach Copy)		
4	Document indicating the manufacturer is in this business at least 5 years. (attach evidence)		
5	Evidence of completing (2) Two similar assignment having cost of each at least 25 million in last 5 years		
6	Evidence of completing at least 1(one) such assignment in Sindh during last 5(five) years. (Attach evidence along with performance certificate of completed project)		
7	Key personnel qualification & Experience (fill & attach the form)		
8	Equipment capabilities owned by the manufacturer. (fill and attach the form)		
9	Documentary evidence of financial position i-e bank statement or evidence of accounts of last 3(three) years. (attach evidence)		
10	Average Annual turnover of last 3 Years should not be less than the thrice of cost of work. (attach evidence)		
11	Item wise monthly production capacities		
12	Warranty obligation (indicate period)		
13	Provision of operating Manual		
14	Provision of after sales service (provide list of authorized dealers in Sindh, name, address No. & contact No.		

Note:-

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.

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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.**

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.
 - (c) Bids by pre qualified applicants will be subject to verification of all information submitted for prequalification at the time of bidding;
 - (d) 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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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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A-III

2. General Experience Record

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

Sr. No.	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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(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
1				
2				
3				

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

Note: - Provide CV of the Staff.

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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 Manufacturer	Model and Power Rating	Capacity	Year of Manufacturer	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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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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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	93	30 th June 2014	
2	Ridgers	92	30 th June 2014	
3	M.B Plough 3 Bottom	128	30 th June 2014	
4	M.B Plough 5 Bottom	127	30 th June 2014	
5	Disc Harrow 16	48	30 th June 2014	
6	Tractor Mounted Spray (Boom Spray)	25	30 th June 2014	
7	Wheat Seed Drill	43	30 th June 2014	
8	Boarder Disc	63	30 th June 2014	
9	Chisel Plough 3 Tine	120	30 th June 2014	
10	Chisel Plough 5 Tine With Roller	45	30 th June 2014	
11	Boom Leveler Manual	101	30 th June 2014	
12	Sub Soiler	52	30 th June 2014	
13	Hydraulic Scraper	43	30 th June 2014	
14	Bed Shaper Planter for Cotton	96	30 th June 2014	
15	Paddy Thresher	190	30 th June 2014	
16	Wheat Thresher	272	30 th June 2014	

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TECHNICAL SPECIFICATION



Sr No.	Description	Required Specification	Qty
1	ROTAVATORS		93 Nos.
<u>GENERAL</u>			
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.	
<u>OVERALL DIMENSIONS</u>			
Length		1000 mm	
Width		1925 mm / 1600 mm	
Height		1100 mm	
Approx. Weight		400 kg / 350 kg	
<u>MATERIAL SPECIFICATIONS</u>			
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.	

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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		92 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		800 mm	
Overall height		1050 mm	
Overall width		2800 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)		M.S Plate 8 mm thick	
Shares		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)		128 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	Qty
4	M.B. PLOUGH (05 BOTTOMS)		127 Nos.
GENERAL			
Type		Rear mounted, Three point linkage-cat-II	
Power Requirement		55 HP or above	
Body / Frame		Trapezoidal Square Box made of M.S. Rolled channel size 75 mm x 6 mm, welded with M.S. Rolled channel of size 75 mm, x 6 mm, Frame consisting of two sides and 2 cross members of 75 mm x 6 mm M.S. channel welded with M.S. Plat. Bar 6 mm.	
Standard		Five Nos. In two rows 2 in front and 3 at rear side. Made of M.S. Plate size 550 mm length x 25 mm thick in half round shape fitted with frame by plate Nut and bolts adjustable setting up to 300 mm.	
Size of Plate Nut & Bolts:		Plats size 150 mm x 162 mm x 15 mm Nut Bots 125 mm x 18 mm dia.	
Land Side		Plate size 75 mm x 9 mm thickness, Frog 12 mm and 9 mm thick plate.	
Mould Board		Single piece 6 mm thick plate made from Carbin steel CAE-1024.	
Plough Share		7 mm thick plate with cutting edge material grade SAE 1055-1074.	
Linkage / Draw Bar		Consisting of two flat Bar, size 75 mm x 9 mm reinforced by 6 mm M.S. plate with 3 holes of cat-II and one Hole of cat-I.	
Support		One end welded with top of the draw bar and other with rear bar of the frame made of two flat bar size 75 mm x 9 mm properly welded and reinforced.	
Overall Dimensions		Width Front Bar 900 mm (Sq: Box) center Bar 1060 mm (Sq: Box)-Rear Bar 1500 mm (Sq: Box) Length 900 mm Box.	

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Ground Dearance	560 mm.	
Ting	M.S Plate Size 5050 mm Length x 32 mm thick	
Furrow Depth	250 mm (approx)	
Weight	Not Less then 280 kg.	
<u>OVERALL DIMENSIONS</u>		
Length	1825.mm	
Width	1100 mm	
Height	925 mm	
Approx. weight	300 kg	
<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	Qty
5	DISC HARROW (16 DISCS)		48 Nos.
<u>GENERAL</u>			
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	
<u>OVERALL DIMENSIONS</u>			
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	
<u>MATERIAL SPECIFICATIONS</u>			
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	



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	BOOM SPRAYER		25 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	



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		43 Nos.
<u>GENERAL</u>			
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		
<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	Qty
8	BORDER DISC		63 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	1700 mm		
Overall Height	1900 mm		
Overall Length	4100 mm		
Approx weight	1700-1800 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
9	CHISEL PLOUGH (3 TINES)		120 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 welded 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
10	CHISEL PLOUGH (5 TINES) WITH ROLLER SYSTEM		45 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
11	BOOM LEVELER (MANUAL)		101 Nos.
<u>GENERAL</u>			
Type	Tractor Mounted		
Linkage Category	I & II		
No. of Blade	01		
Tractor Power Required	80 HP or Above		
<u>OVER ALL DIMENSION</u>			
Overall Length	5 180 mm		
Overall Height	1220 mm		
Overall Width	3700 mm		
Approximate Weight	450 Kg		
<u>MATERIAL SPECIFICATION</u>			
Main Frame	Box Type 4875 mm x 250 mm x 210 mm		
Leveler Size	3700 mm x 500 mm x 9.375 mm		
Leveler Back Support	M.S Sheet 6 mm		
02 No Joint Plate Size	1220 mm x 250 mm x 12.5 mm		
04 No Balance Pipe	63 mm x 3.25 mm		
Tyre Frame	Box Type 100 mm x 100 mm x 6 mm		
No. of Rims	02		
No. of Tyre	02		
No. of Bearing	04		
No. of Hub	02		
No. of Adjustable Rod	02		
<u>MISCELLANEOUS</u>			
Paint	Double Coating After Primeir		
Nuts & Bolts	Tightened with spring washer		
Warranty	1 Year		

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Sr No.	Description	Required Specification	Qty
12	SUB SOILER		52 Nos.
TECHNICAL SPECIFICATION			
<ul style="list-style-type: none">• Tractor Hydraulic Operator Implements with Multi Points Linkage.• Heavy Beam Construction to ensure long life.• Breaks hard-pen to a depth of 450 – 550 mm.			

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Sr No.	Description	Required Specification	Qty
13	HYDRAULIC SCRAPER		43 Nos.
<u>GENERAL</u>			
Type	II Linkage Category (Semi and fully Trailed)		
Hitching	Adjustable Drawbar for SS 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: Wait	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 (China) with Rim 2 No.		
Hub	Size J-4 Heavy duty made by Cost 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
14	BED SHAPER / PLANTER		96 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	
Draubar		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 Priemer COAT	

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Sr No.	Description	Required Specification	Qty
15	PADDY THRESHER		190 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		



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		
	Double coating with premier and surface finish	
	To be tightened with spring washer	
	New Europe / Japan NTN	
	To be carried out free of cost if required	
	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
16	WHEAT THRESHER		272 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		
Wheels	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	
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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