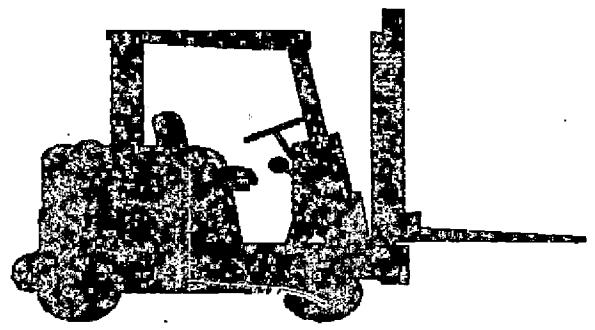
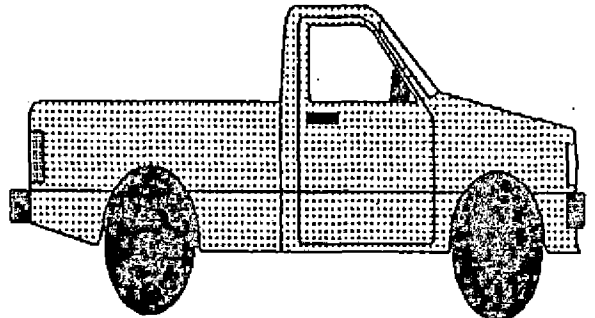
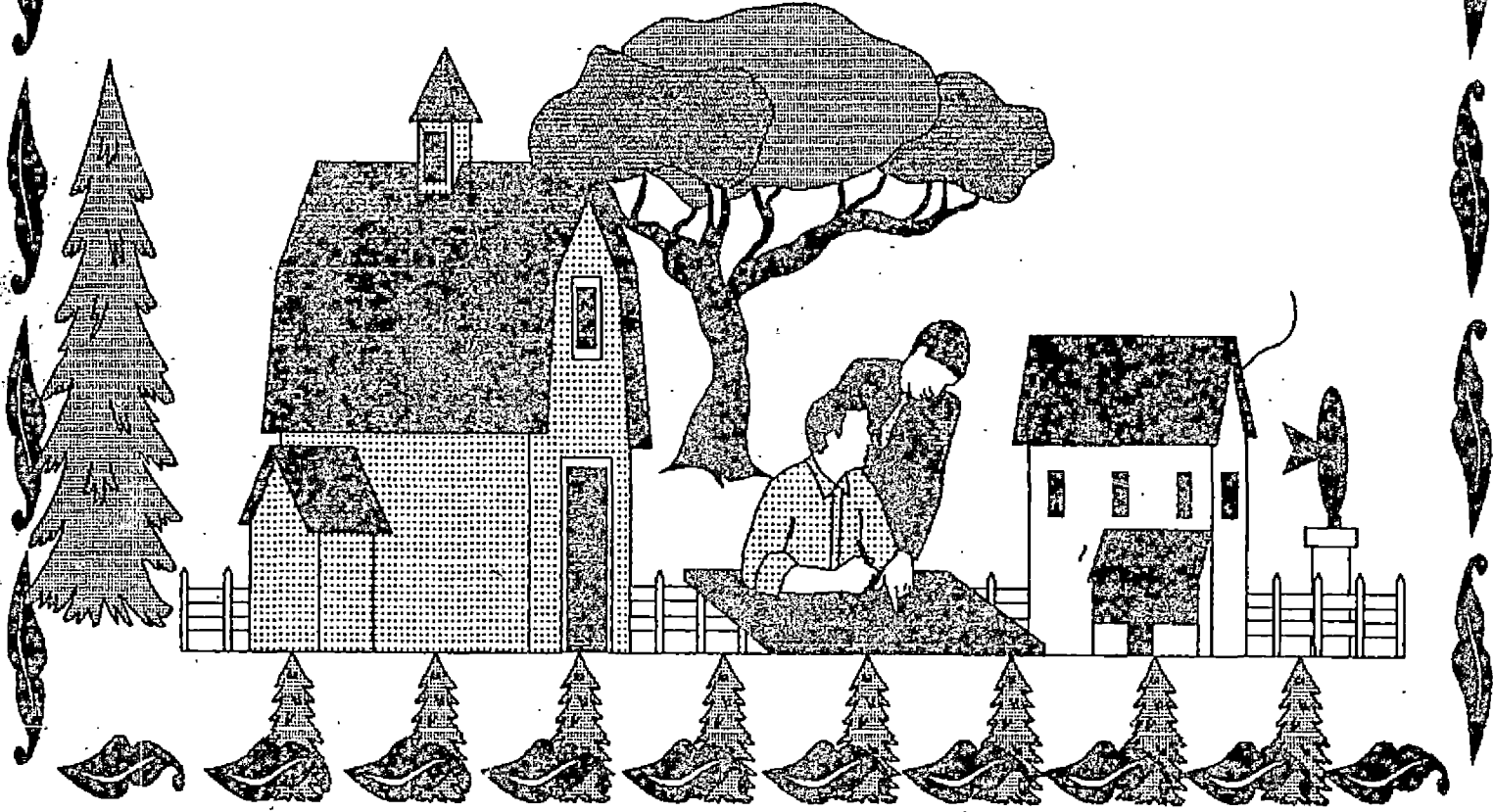


AGRICULTURAL RESEARCH STATION

MANNUTHY



LABOUR FRIENDLY FARM MECHANISATION



SEEING IS BELIEVING

**EXHIBITION
ON
LABOUR FRIENDLY FARM MECHANISATION**



CONDUCTED

AT

**AGRICULTURAL RESEARCH STATION
MANNUTHY - 680 651**

FROM 17th TO 19th AUGUST 1996

A REPORT



Plate I Hon: Vice-Chancellor and other dignitaries
at the Exhibition venue



Plate II Director of Extension, KAU delivering
the welcome address

**REPORT OF THE EXHIBITION ON
"LABOUR FRIENDLY FARM MECHANISATION"
CONDUCTED AT AGRICULTURAL RESEARCH STATION, MANNUTHY
FROM 17TH TO 19TH AUGUST 1996**

I INTRODUCTION

An exhibition on "Labour Friendly Farm Mechanisation" was conducted at Agricultural Research Station, Mannuthy from 17th to 19th August 1996 in connection with Farm Day Celebration of the Station. The three day exhibition was sponsored by the Directorate of Extension, Kerala Agricultural University, Mannuthy vide order No. C3/1163/96 dtd. 12.08.96 of the Vice-Chancellor.

The exhibition was organised with the main view to show live demonstration of the farm machinery, irrigation devices and plant protection and post-harvest processing equipment available in the agricultural production front to the farmers of the State. Still display of these machinery will not provide adequate information and knowledge required for the farmer to adopt mechanisation. A live demonstration of these machinery and devices in the actual field conditions will provide for better interface between actual user and the machines and better interaction between the users, manufacturers and scientists involved in this field.

II ACTIONS TAKEN TO CONDUCT THE SHOW

1. Letters were sent on 10.07.96 to more than 130 firms requesting their participation in the exhibition (Enclosure I)
2. Letters were sent to JDAs of Malappuram, Palghat, Trichur and Ernakulam on 10.07.96 regarding the proposed exhibition to be conducted on August so as to give wide publicity among field level officers and farmers. (Enclosure II)
3. Special letters are sent on 10.07.96 to the Government/ Government Undertaking Organisations like KAICO, KAMCO and RAIDCO to participate in the venture. (Enclosure III)
4. Letters were sent to University Officers, Associate Directors, Head of Stations on 10.07.96 to attend to the meeting scheduled on 31.07.96 to formulate Organising Committee (Enclosure IV)
5. Special letters were sent to technical personalities to prepare themselves to attend the technical session to be organised during the exhibition (Enclosure V)

6. Meetings were held at the conference hall of the University on 31.07/96 under the Chairmanship of the Vice-Chancellor. (Enclosure VI).
 - * The Organising Committee was constituted, keeping Associate Professor & Head, ARS Mannuthy as General Convener of the Organising Committee.
 - * The guidelines and methods to conduct the exhibition was discussed and finalised.
7. Director of Research sent letters on 01.08.96 the Director of Agriculture, Agrl. Production Commissioner, Special Secretary(Agriculture), Special Secretary (Rural Development) and Director of VHSC requesting whole hearted co-operation from the concerned Department(Enclosure VII).
8. General Convener made request to the Director of Extension, Kerala Agricultural University on 05/08/96 to sanction an amount of Rs. 21,000/- towards the conduct of the exhibition.
9. Letters were sent to different firms again on 01.08.96 to send video films on farm mechanisation to show during exhibition(Enclosure VIII).
10. Letters dtd. 01.08.96 and Registration forms were sent to the firms shown Interest to participate in the exhibition(Enclosure IX).
11. General convener of the Organising Committee visited seven firms at Coimbatore to ensure their participation.
12. A meeting of Finance Committee was held on 06.08.96 to discuss the financial estimate and to discuss the action taken to conduct the show.
13. Invitation was sent to All the members of Executive Committee, Academic Council and, General Council, University Officers, Associate Directors, Heads of Departments and Stations to attend the Inaugural Function and Exhibition (Encl. X).
14. Special invitation was sent to adjoining Krishi Bhavans, Panchayaths, JDAs, Padasekhara Committees to witness exhibition(Enclosure XI & XII).
15. Head of Stations in the adjoining areas were request to provide adequate help to conduct the exhibition.
16. All India Radio/Doordarshan/Press were given special note to have widel publicity about the show(Enclosure XIII & XIV).

17. Registrar was requested to strengthen security during the exhibition.
18. An amount of Rs. 21,000/- was received for the conduct of show (vide order no. C3/1163/96 dtd. 17.08.96)
19. KSEB was requested to permit additional electricity load during the exhibition.
20. Registrar and Director of Students Welfare were requested to provide accommodation for the participants of the exhibition.

III EXHIBITION

1. Seven covered stalls thatched with 'silpaulin' was erected for housing the machinery brought by different participating firms
2. A thatched stage and hall were made to conduct inaugural function, technical session and video show.
3. A thatched hall was made to display as well as demonstrate different implements owned by KAU.
4. All the farm implements and machinery owned, tested and used by ARS Mannuthy was demonstrated. These include,

RICE

1. Paddy wet seeder
2. Rotovator
3. Leveller
4. Cage wheels
5. Japanese Weeder
6. Plant Protection equipments
 - a. Knapsack sprayer
 - b. Power sprayer,
 - c. CAD applicator
7. Paddy Harvesters - self propelled vertical conveyer reaper
8. Paddy Threshers - Hold on type - Power operated
9. Paddy Winnower - IRRI type
10. Paddy Winnower - Blower type

UPLAND

- | | |
|----------------|---------------------------------|
| 1. Disc plough | 7. Terracer blade |
| 2. M.B. plough | 8. Weeder - |
| 3. Sub-soiler | a. TNAU Star type |
| 4. Ridger | b. TNAU Peg type |
| 5. Bund former | c. CIAE Hoe type |
| 6. Lawn mower | 9. Grass slashers (Rotoslasher) |

OTHERS

1. Coconut climber

IRRIGATION

1. Pumpsets
 - a. Axial flow
 - b. Centrifugal
 - c. Jet
 - d. Submersible
2. Irrigation systems
 - a. Pipe
 - b. Drip
 - c. Sprinkler
 - d. Fogger

HORTICULTURAL ITEMS

1. Garden Shear
 2. Pruning knife
 3. Secature
 4. Garden Shovel
 5. Garden Fork
 6. Garden Trolley
 7. Pot trays
 8. Sickle
 9. Portable Benches
 10. Mist house
 11. Shade house with Agro shade net green 25%
 12. Shade house with Agro shade net green 50%
 13. Shade house with Agro shade net green 75%
 14. Potting shed
 15. Micro sprinkler
 16. Sprinkler $\frac{1}{2}$ ", $\frac{3}{4}$ "
 17. Pop-up sprinkler
 18. Eco-Max Battery Operated All Rounder Hand Sprayer
 19. Knap-sack sprayer
 20. Hand sprayer (1 litre)
5. The following farm machinery were brought from Kelappaji College of Agricultural Engineering and Technology, Tavanur and demonstrated
1. KERAMITHRA (Coconut dehusking tool)
 2. Vertical Conveyer Reaper for Paddy
(Tractor mounted self propelled)
 3. Paddy Thresher-cum-winower (Flow through type)
 4. Post hole digger (counter sinking tool)
 5. Jack Fruit Harvester

6. The following firms participated in the show and an amount of Rs. 6000/- was collected towards registration charges.

i. M/S. VST AGRO INPUTS, Plot No. 5/1, Puttappa Industrial Estate, PB No. 4842, Mahadevapura P.O., Whitefield, Bangalore 560048

1. Power Driver YANJI 8 row rice transplanter
2. Motorised Harrow (Little wonder)
3. Motorised Hoe (Big Til Hoe)
4. Motorised hand hold post hole digger (Earth drill)
5. Power operated Pruning shear (Hedge trimmer)

ii. M/S. RAMKUMAR INDUSTRIES, G.N. Mill Post, Coimbatore 641029

1. 9 tye cultivator
2. Land leveller
3. Disc Plough
4. 3 row ridger
5. Bund former
6. 3 furrow M.B. plough

iii. M/S. KERALA AGRO INDUSTRIAL CORPORATION LIMITED, Palghat

1. Copra Drier
2. Paddy Winnower
3. Thresher Hold on type
4. Green house models

iv. M/S. KERALA AGRO MACHINERY CORPORATION, Athani 683 585

1. KAMCO Power operated paddy reaper
2. KAMCO power tiller with cage wheel for puddling
3. KAMCO Power tiller attached with Compressor sprayer unit for distant target spraying

v. M/S. EPC IRRIGATION LIMITED, 206, Sri Krishna Towers, 515, Dr. Narappa Road, Coimbatore 641 018 represented by Kairali Irrigation, Trichur.

Different irrigation devices especially sprinklers and foggers, fitters etc.

vi. M/S. SUJIRKARS TRADING COMPANY, P.B. No. 208, Jew Town, Cochin 682 002 (Representing Jain Irrigation System Ltd., and Aspee Engineering Company.)

- a) Different drip irrigation system with micro sprinklers, fertigation unit etc.
- b) Different types of power and manual operated sprayers fogging unit etc.

vii. M/S. ELGI POLYTEX LTD., Elgi House, Trichy Road, Ramanathapuram, Coimbatore 641 045 Represented by Start Agro Innovations, Edappal.

Different drip irrigation system and micro sprinkler system and equipments.

The stalls were located staggered around the farm area and most of the equipment and systems were demonstrated in the field. Water and electricity were supplied to all the stalls occupied by the participating firms.

Staff members and students of Kelappaji College of Agricultural Engineering and Technology, Tavanur and all the staff members of the station participated in the exhibition. They were available for explaining the operation of machine/devices. At the entrance, a counter was opened for the registration of the progressive farmers so as to collect a mailing list of them. A visitor book was kept at the exit counter to record the opinion of the viewers. The exhibition was running from 9.00 AM to 6.00 PM on all the three days i.e., 17th to 19th August 1996. Tea was served to the volunteers and operators.

IV. PROGRAMMES

The exhibition was formally inaugurated by the Vice-Chancellor of the Kerala Agricultural University at 10 PM by lighting the lamp. The Director of Research chaired the function and the gathering was welcomed by the Director of Extension. In the Inaugural address, Vice-Chancellor emphasised the need to have such exhibitions and field orientation programmes for technology transfer so that there would be better interaction between scientists, farmers and manufactures. The constraints and draw backs could be discussed between them, suggestions would be incorporated and further modification and improvements could be made to suit to the actual requirements. The Director of Research in his presidential speech opined that this sort of farmer oriented programmes might be conducted in all the farms of Kerala Agricultural University. These sort of programmes are the ideal to celebrate the Silver Jubilee Celebration of the Kerala Agricultural University, which is to fall during 1997. Dr. C. Sreedharan, Dean (Faculty of Agri.), Dr. John Thomas, Dean(Fuculty of Agrl. Engineering) and Dr. A. Rajan, Dean (Faculty of Veterinary & Animal Science) offered felicitation. The distinguished guests gone around the venue of exhibition and witnessed live demonstration of the exhibits.

During the exhibition, a farm clinic under the leadership of Farm Power Machinery and Energy, KCAE&T, Tavanur functioned at the main stage. Experts were available at the venue to answer to the enquiries of the visiting farmers. Video films regarding functioning of different machinery and irrigation systems were shown at frequent intervals. This farm clinic operated on all

the three days. On 19th morning a technical discussion regarding "Farm Mechanisation - constraints and prospects" was held under the convenership of Dr. Jobi V. Paul, Associate Professor, Kelappaji College of Agricultural Engineering and Technology, Tavanur.

The exhibition came to close at 5 pm of 19.08.96. The Vice-Chancellor attended concluding ceremony. Mementos and certificates were presented to all the participating firms as well as the Kelappaji College of Agricultural Engineering and Technology, Tavanur, by the Vice-Chancellor.

V. MAIN ATTRACTIONS OF THE SHOW

1. Power operated YANJI 8 Row Paddy Transplanter was well appreciated by the farmers. This can transplant 2000 m² per hour at the expense of 400 ml of Diesel.
2. Post Hole Digger (Soil counter sinking tool) which can take pits of diameter of 0.6 m up to depth of 0.9 m. The efficiency will be 20-30 pits per hour.
3. Tractor Driver Grass Slasher which can slash and cut grass especially of jungle growth at the efficiency of 5 acres/day.
4. Hedge Trimmer -which can mechanically trim and prune hedges
5. Little Hoe - which can mechanically weed and rake gardens
6. Garden Wonder - which can be mechanically weed and rake garden and vegetable plots
7. Kera Mithra (Coconut dehusking tool) - which is a home device for dehusking coconut
8. Paddy Reaper - which can do harvesting mechanically at the rate of 0.2 ha/hr.
9. Jack Fruit Harvester - which can harvest and lower jack fruits without damage from a height of 6-12 m.

VI PARTICIPATION AND RATING

More than one thousand farmers witnessed the exhibition. Nearly four hundred and twenty two farmers registered their names to include them in the mailing list. The opinion recorded from seventy seven farmers selected at random showed that the following analysis upon rating.

Rating	Percent
Excellent	08
Very good	36
Good	25
Average	19
Below average	12

The common opinion recorded by the farmers are,

- * The exhibition should be conducted with more publicity
- * The machinery like paddy Transplanter, Harvester, Thresher, Winnowing etc. may be made available to farmers of different Padasekharam in sufficient numbers at the subsidised cost.
- * Youngsters, especially unemployed youths, may be trained in this field so that they can get employment opportunities and more people can be attracted towards agriculture.
- * More programmes like this may be conducted at local levels.
- * The initial high cost of machine make them unaccessible to common farmer. Hence comprehensive programme at appropriate level may be introduced to supply the machinery at affordable cost to the farmers.
- * Sufficient arrangements may be made for the sales of tools and small machines along with the exhibition.

Dr. U. JAIKUMARAN

Associate Professor & Head
Agricultural Research Station

MANNUTHY, &

GENERAL CONVENOR

EXHIBITION ON "LABOUR FRIENDLY FARM MECHANISATION"

◆ ◆ ◆



Plate III 8-row YANJI SHAKTHI Rice Transplanter in action



Plate IV Demonstration of Post-hole digger



Plate V Coconut dehusking tool "*Keramitra*" designed by Kerala Agricultural University



Plate VI Power operated hoe



KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURE PRODUCTION
FROM
AUGUST 17 TO 21, 1996
AT
AGRICULTURAL RESEARCH STATION, MANNUTHY, THRISSUR

KERALA AGRICULTURAL UNIVERSITY

Agricultural Research Station
Mannuthy - 680 651
Dated 10.07.1996

No.E/1488/91

From

DR. U. JAIKUMARAN
Assoc. Prof. & Head

To

Sir,

Sub:- ARS Mannuthy - Karshaka Mela 1996 - Exhibition on Labour Friendly Farm Mechanisation - date - informing - reg.

Ref:- 1. This office letter even No. dated 05.03.1996
2.

Thank you for the letter under reference 2nd cited. Please find enclosed herewith our latest communication. Your reply is anticipated by return of post.

Dignitaries like Hon'ble Ministers are likely to participate in the Mela. Please participate in the exhibition and make it a grand success.

Yours faithfully,

Associate Professor and Head



KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURE PRODUCTION
FROM
AUGUST 17 TO 21, 1996
AT
AGRICULTURAL RESEARCH STATION, MANNUTHY, THRISSUR

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Agricultural Research Station
Mannuthy - 680 651
Dated 10.07.1996

No.B/1488/91

DR. U. JAIKUMARAN
Assoc. Prof. & Head

Sir,

Sub:- ARS Mannuthy - Karshaka Mela 1996 - Exhibition on Labour Friendly Farm Mechanisation - date - informing - req.

Ref:- This office letter even No. dated 05.03.1996

We have already informed that a 'Karshaka Mela 1996' and a week long exhibition on 'Labour Friendly Farm Mechanisation' will be organised by us to benefit farmers of the state. The venue of the 'Mela' is the farm attached to the Station and the time is from 17th August to 21st August 1996. The proposed exhibition is meant for demonstration of all farm implements and equipments, tools as well as technology available in India for economically sustaining production.

Most of the modern equipment, machinery, tools, technology etc. are still alien to farmers and only live demonstration of these implements/machinery/tools/technology can help in the process of labour friendly mechanisation to sustain agriculture production.

This is to request you to benefit the farming community by participating in the exhibition by demonstrating all the available range of farm equipment/machinery/tools/products etc. available with you. Space and water for exhibition will be provided by the station at free of cost. You may please inform us:

1. Whether you are interested to participate
2. If so what all range of items you want to demonstrate in the field
3. What is approximate space you may need
4. Other information if any

I once again request your active participation. A reply may be sent to us so as to reach this office on or before 30.07.1996.

Expecting your co-operation.

Faithfully yours,

Associate Professor & Head

To



KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURE PRODUCTION
FROM
AUGUST 17 TO 21, 1996
AT
AGRICULTURAL RESEARCH STATION, MANNUTHY, THRISSUR

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From

DR. U. JAIKUMARAN
Assoc. Prof. & Head

To

Respected Sir,

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Ref:- This office letter even No. dated 05.03.1996

The station is organising a Karshaka Mela and an exhibition on 'Labour Friendly Farm Mechanisation' from 17th to 21st August 1996. We hope so many manufacturers of various farm implements, equipments etc. will be co-operating to run the exhibition in a successful manner. This Karshaka Mela is mainly indented to help the farmers especially of Kole land to have first hand knowledge about different machinery, tools, equipments etc. available for labour friendly mechanisation and to clear their doubts in the production front.

I request that all the Agricultural Officers under your control may be informed about this programme and may be directed to ensure maximum participation of farmers in the Mela. The detailed programme about this will be intimated by first week of August, 1996.

Yours faithfully,

Associate Professor & Head



KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURE PRODUCTION
FROM
AUGUST 17 TO 21, 1996
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I may request your active participation in this venture so that this will be a joint effort by us for the benefit of farming community. The detailed programme will be finalised by 1st week of July. Apart from exhibition there may be discussions/seminars on mechanisation of farming activities.

We hope you are interested in this venture and ready to contribute and participate for the grand success of the Mela. A reply by return of post is solicited to further proceed with this matter.

Yours faithfully,

Associate Professor and Head



KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURE PRODUCTION
FROM
AUGUST 17 TO 21, 1996
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Mannuthy - 680 651
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Ref:- This office letter even No. dated 05.03.1996

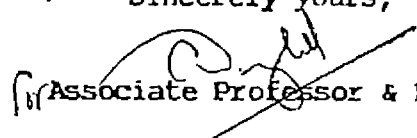
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We would like to have a Technical Discussion Session for farmers regarding 'Labour Friendly Farm Mechanisation - prospects and possibilities'. Please give a serious thinking to this theme and contribute your ideas. I may invite you and your technical personnel to present your ideas before the farmers in the ensuing Mela. The exact schedule of programmes will be intimated by 1st week of August, 1996.

Let us strive together for the betterment of farming community.

Expecting your whole hearted co-operation.

Sincerely yours,


Associate Professor & Head



KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURE PRODUCTION
FROM
AUGUST 17 TO 21, 1996
AT
AGRICULTURAL RESEARCH STATION, MANNUTHY, THRISSUR

KERALA AGRICULTURAL UNIVERSITY.

Directorate of Extension
Mannuthy - 680 651
Dated 10.07.1996

No. R/1488/91

From

Director of Extension

To

Sir,

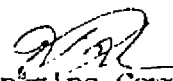
Sub:- ARS Mannuthy - Karshaka Mela 1996 - Exhibition on Labour Friendly Farm Mechanisation - constitution of organising committee - req.

Ref:-

The Agricultural Research Station, Mannuthy is organising a Karshaka Mela and an exhibition on 'Labour Friendly Farm Mechanisation' from 17th to 21st August 1996. I hope so many manufacturers of various farm implements, equipments etc. will be co-operating to run the exhibition in a successful manner. This Karshaka Mela is mainly indented to help the farmers especially of Kole land to have first hand knowledge about different machinery, tools, equipments etc. available for labour friendly mechanisation and to clear their doubts in the production front.

In order to finalise the programme and to constitute an Organising Committee, a meeting has been scheduled at 10.00 AM of 31.07.1996 at Agricultural Research Station, Mannuthy. Kindly make it convenient to attend the meeting.

Yours faithfully,


Convenor, Organising Committee
for Director of Extension

KARSHAKA MELA 1996

**EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION TO
SUSTAIN AGRICULTURAL PRODUCTION ON
17TH TO 19TH AUGUST 1996
AT Agrl. Research Station, Mannuthy**

Members Present

Chairman - Dr. A.M. Michael, Vice-chancellor, KAU,
Vellanikkara

1. Dr. U. Jaikumar, Assoc. Professor & Head, ARS, Mannuthy
2. Dr. N. Krishnan Nair, Assoc. Director, RARS, Pattambi
3. Sri. Jippu Jacob, Assoc. Professor, KCAE&T, Tavanur
4. Sri. M.R. Sankara Narayanan, Asst. Professor,
College of Horticulture, Vellanikkara
5. Dr. Babu M. Philip, Assoc. Professor, Central Nursery,
Vellanikkara
6. Dr. C. Narayanankutty, Asst. Professor, ARS, Mannuthy
7. Smt. Rosamma C.A. Asst. Professor, ARS, Mannuthy
8. Ms. Sajitha Rani. T., Asst. Professor, ARS, Mannuthy
9. Dr. V.V. Radhakrishnan, Asst. Professor, ARS, Mannuthy
10. Sri. Jose Joseph, Asst. Professor (PRO), DE, Mannuthy
11. P. Varadharajan Nair, Professor, Communication Centre
12. Dr. J. Thomas, Assoc. Professor, AMPRS, Odakkali
13. Dr. P.S. John, Assoc. Professor
14. Sri. K.P.R. Nair, Professor, RARS Kumarakam
15. Dr. G.R. Pillai, ADR, Directorate of Research,
Vellanikkara
16. Dr. S.R. Nair, General Co-ordinator, KHDP
17. Dr. P. Balakrishna pillai, Assoc. Director of Research,
KAU, Vellanikkara
18. Dr. N. Mohanakumaran, Director of Research, KAU,
Vellanikkara
19. Dr. E. Thajudeen, Director of Extension, Mannuthy

The meeting started at 10.45 AM. Hon'ble Vice Chancellor Dr. A.M. Michael presided over the meeting and welcomed the gathering. Dr. U. Jaikumar introduced the topic of the exhibition theme 'Labour Friendly Farm Mechanisation' and its relevance in the current scenario of Agricultural production.

Vice-Chancellor put up a crystal clear picture on how to conduct the show - There shall be live demonstration of machinery/implements used both in wet land and dry land cultivation. It will be a stepwise demonstration right from land development upto processing and marketing. It should motivate and educate young generation so that more people will be attracted to take up farming. 'Group Effect' may be highlighted towards sustainability of farm mechanisation and 'Farmer-cum-Enterprenur' idea may be mooted to overcome uneconomical single ownership - marginal holding system. There shall be live discussion and interaction on efficient use after care and

maintenance of farm machinery with comparable efficiencies and economics. The discussion must reveal the fact that farm mechanisation actually leads to more use of labourers by expanding the vistas of production. The live demonstration may be continuous at each spot and sufficient experts may be available at each spot to interact with farmers. Full time demonstration of coconut dehusking tool may be arranged and RAIDCO may be requested to bring sufficient number of dehuskers for sale. As far as possible Video films on farm mechanisation may be shown. There may be sufficient press coverage and the details of show may be publicised through all media - Press, All India Radio, Television etc., so that farmers all over Kerala may attend the exhibition. The exhibition may cover all varieties of equipment used in land preparation, irrigation, plant protection, inter cultivation, harvesting, processing, Fishery, Veterinary, nursery, green house etc. so that farmers can be made fully aware of the tools and machines available in the front. All the Senior State level Officers concerned with development of Agriculture in the state like the Agrl. Production Commissioner, Secretary, Department of Agriculture and Director of Agriculture may be invited for the exhibition.

The Director of Research, fully endorsing the view of the Vice-Chancellor, opined that this may be stepping stone for the Silver Jubilee Celebration of the Kerala Agricultural University(KAU). Each farm under KAU may organise such 'MELAS' on different 'Themes' most relevant to their locality. Sufficient charts may be displayed as well as leaflets distributed about the machinery. The show may be recorded fully in video and 'Group Action' may be emphasised. The Director of Extension added that all the local implements available in the locality may be collected and displayed depicting the array of implements available in the State.

Sri. Jippu Jacob said that the Agricultural Officers may be invited for the show, so as to create more awareness among field officers. To avoid costliness in the mechanisation, group action may be given more emphasis.

The Vice-Chancellor requested KCAE&T, Tavanur to take the lead role in the conduct of the show and the Director of Research to Chair further proceeding of the meeting to chart out the programme.

The Director of Research, KAU proposed that a registration fee of Rs.1,000/- may be collected from the participating non-Government firms and registration form may be sent to each firm. A fee of Rs.50/- m² can be collected, if needed as may be decided by the finance committee for providing different stalls covered area, water and electricity. A total expenditure of Rs.25,000/- is expected for the exhibition and may be met from the funds provided for the Directorate of Extension.

Based on discussion the following Committees were proposed

ORGANISING COMMITTEE

Patron : Dr.A.M. Michael, Vice-Chancellor
 Vice-Patron : Director of Extension
 Gen. Convenor: Dr. U. Jaikumar, Assoc. Prof. & Head, ARS, Mthy
 Members : Director of Research, KAU.
 Dean, College of Vety. & Animal Sciences, Mannuthy
 Associate Dean, College of Horticulture, V.kara
 Associate Dean, C&B College, Mannuthy
 Dean, KCEA&T, Tavanur
 Associate Director of Research (Farm)
 Associate Director of Research (AR&T)
 Associate Director of Research (M&E)
 Dr. Varadarajan Nair, Professor, Commn. Centre
 Prof. C.P. Mohammed, Head, Department of FPM&E
 Sri. Jippu Jacob, Assoc. Prof., KCAE&T, Tavanur
 Dr. Joby V. Paul, Associate Professor
 Sri. Sankara Narayanan, Asst. Professor
 Sri. T.C.Radhakrishnan, Assoc. Professor
 Dr. Janardhanan Pillai, Associate Professor
 Dr. Abdul Salam, Assoc. Professor
 Dr. V.V.Radhakrishnan, Asst. Professor
 Sri. Jose Joseph, Asst. Professor
 Dr. C. Narayanankutty, Asst. Professor

Publicity Committee

Chairman : Director of Extension
 Co-Chairman : Associate Director of Research (Farm)
 Convenor : Sri. Jose Joseph, Asst. Professor
 Members : Dr. M.K. Sheela, Associate Professor
 Smt. K.K. Santha, Assistant Professor
 Sri. V. Kunju, Assistant Professor

Exhibition Committee

Chairman : Prof. C.P. Mohammed, Head, Department of FPM&E
 Co-Chairman : Sri. Jippu Jacob, Assoc. Prof., KCAE&T, Tavanur
 Convenor : Sri. Sankara Narayanan, Asst. Professor
 Members : Sri. M. Sivaswamy, Asst. Professor
 Smt. C.A. Rosamma, Asst. professor
 Dr. S. Ramkumar, Asst. Professor
 Dr. A.D. Antony, Associat Professor
 Dr. Babu. M. Philip, Assoc. Professor
 Dr. J. Thomas, Assoc. Professor
 Sri. K.C. Chandi, Associate Professor
 Dr. K.K. Ibrahim, Assistant Professor

Teachers and other staff members of KCAE&T, Tavanur may be nominated by the Chairman

Publication Committee

Chairman : Dr. John Thomas, Dean, KCEA&T, Tavanur
 Co-Chairman : Sri. T.C.Radhakrishnan, Assoc. Professor
 Convenor : Dr. C. Narayanankutty, Asst. Professor
 Members : Dr. Visalakshy, Assistant professor
 Dr. Suma Paulose, Associate Professor
 Dr. Sreedevi. P., Associate Professor

Reception Committee

Chairman : Dr. P.B. Pillai, Associate Director of Research
 Co-Chairman : Dr. Abdul Salam, Assoc. Professor
 Convenor : Dr. V.V.Radhakrishnan, Asst. Professor
 Members : Smt. Sajitha Rani, Asst. Professor
 Dr. P.A. Joseph, Asst. Professor
 Dr. Esteletta, Assoc. Professor
 Dr. Jayasree Sankar, Asst. Professor
 Smt. Krishnakumari, Assistant Professor

A team of teachers from the College of Horticulture may be nominated to this committee by the Associate Dean, College of Horticulture, Vellanikkara

Technical Session Committee

Chairman : Dr. G.R.Pillai, Assoc. Director of Research (AR&T)
 Co-Chairman : Dr. Janardhana Pillai, Associate Professor
 Convenor : Dr. Joby V. Paul, Associate Professor
 Members : Smt. K. Mridula Devi, Language Editor
 Dr. Ahmed P., Asst. Professor
 Sri. Shaji P. James, Asst. Professor
 Other members may be nominated by the Dean, KCAE&T, Tavanur

Finance Committee

Chairman : Dr. Varadarajan Nair, Professor,
 Communication Centre
 Co-Chairman : Dr. U. Jaikumaran, Associate Professor
 Convenor : Smt. Vivian Jose, Administrative Assistant
 Members : All convenors of different Committees

Anticipated expenditure for the conduct of "Exhibition on Labour Friendly Farm Mechanisation" at Agricultural Research Station, Mannuthy from 17 to 19 August 1996

1. Pubicity Committee

Publicity, meeting expenses of Press conference, announcement etc.	:	Rs.1000.00

Total	:	Rs.1000.00
		=====

2. Exhibition committee

Installation of covered stalls	:	Rs.7000.00
Providing water supply and electricity	:	Rs.1500.00
Transportation of machinery from different places	:	Rs.1500.00
Preparation of display boards/charts	:	Rs.3000.00

Total	:	Rs.13000.00
		=====

3. Publication committee

Preparation of leaflets/phamplets	:	Rs.1000.00

Total	:	Rs.1000.00
		=====

4. Reception committee

Preparation of banners, posters, signboards	:	Rs.1000.00
Badges	:	Rs. 600.00
Invitation letters	:	Rs.1000.00
Decoration	:	Rs. 400.00
Refreshment and working lunch to volunteers	:	Rs.2000.00

Total	:	Rs.5000.00
		=====

5. Technical session

Meeting stationery expenditure and miscellaneous	:	Rs.1000.00

Total	:	Rs.1000.00
		=====

GRAND TOTAL : Rs.21,000/-
=====

(Rupees twenty one thousand only)

Chairman
Finance Committee



KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURAL PRODUCTION
FROM
AUGUST 17 TO 19, 1996
AT
AGRICULTURAL RESEARCH STATION, MANNUTHY, THEISSUR

KERALA AGRICULTURAL UNIVERSITY

DR. N. MOHANAKUMARAN
 Director of Research

Directorate of Research
 Kerala Agricultural University
 Vellanikkara - 680 654
 Dated 01.08.1996

Fax : 91 487 370019
 E-Mail : kaubqr@ren.nic.in

Respected Sir,

Sub:- ARS Mannuthy - Karshaka Mela 1996 - Exhibition on Labour Friendly Farm Mechanisation - req.

Ref:- Arising

Kerala Agricultural University (KAU) is organising a Karshaka Mela and an exhibition on 'Labour Friendly Farm Mechanisation' from 17th to 19th August 1996. We hope that many manufacturers of various farm implements, equipments, tools etc. will be co-operating with us to run the exhibition in a successful manner. This Exhibition is mainly intended to help the farmers to have first hand knowledge about different machinery, tools, equipments etc. available for labour friendly mechanisation and to witness the demonstration of these equipment and machinery.

We are also arranging a Technical Discussion Session for farmers on 'Labour Friendly Farm Mechanisation - prospects and possibilities'. There will be video show. Participation of all the Agricultural Officers and farmers is needed to reap the real benefit of the show. This will be a unique opportunity to witness and interact.

I request that all the Officers of the Department of Agriculture may be directed to participate in the exhibition along with a team of enthusiastic farmers from their influence area.

Expecting your whole hearted co-operation.

Sincerely yours,

(N. MOHANAKUMARAN)

To

The Secretary (Agriculture)
 Secretariat,
 Trivandrum.



KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURAL PRODUCTION
FROM AUGUST 17 TO 19, 1996
AT
AGRICULTURAL RESEARCH STATION, MANNUTHY, TRIVANDRUM

KERALA AGRICULTURAL UNIVERSITY

DR. N. MOHANAKUMARAN
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Directorate of Research
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I request that all the Officers of the Department of Agriculture may be directed to participate in the exhibition along with a team of enthusiastic farmers from their influence area.

Expecting your whole hearted co-operation.

Sincerely yours,

(N. MOHANAKUMARAN)

To
The Director of Agriculture
Directorate of Agriculture
Vikas Bhavan, Trivandrum.



KARSHAKA MELA 1996
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TO SUSTAIN AGRICULTURAL PRODUCTION
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AUGUST 17 TO 19, 1996
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Director of Research

Directorate of Research
Kerala Agricultural University
Vellanikkara - 680 654
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We are also arranging a Technical Discussion Session for farmers on 'Labour Friendly Farm Mechanisation - prospects and possibilities'. There will be video show. Participation of all the Agricultural Officers and farmers is needed to reap the real benefit of the show. This will be a unique opportunity to witness and interact.

I request that all the Officers of the Department of Agriculture may be directed to participate in the exhibition along with a team of enthusiastic farmers from their influence area.

Expecting your whole hearted co-operation.

Sincerely yours,

(N. MOHANAKUMARAN)

To
The Agriculture Production Commissioner
Secretariat,
Trivandrum.



4

KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURAL PRODUCTION
FROM
AUGUST 17 TO 19, 1996
AT
AGRICULTURAL RESEARCH STATION, MANNUTHY, THRISSUR

KERALA AGRICULTURAL UNIVERSITY

DR. N. MOHANAKUMARAN
Director of Research

Directorate of Research
Kerala Agricultural University
Vellanikkara - 680 654
Dated 01.08.1996

Fax : 91 487 370019
E-Mail : kaubqr@rcn.nk.in

Respected Sir,

Sub:- ARS Mannuthy - Karshaka Mela 1996 - Exhibition on Labour Friendly Farm Mechanisation - reg.

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We are also arranging a Technical Discussion Session for farmers on 'Labour Friendly Farm Mechanisation - prospects and possibilities'. There will be video show. Participation of all Rural Development Officers and farmers is needed to reap the real benefit of the show. This will be a unique opportunity to witness and interact.

I request that all the Officers of the Rural Development Department may be directed to participate in the exhibition along with a team of enthusiastic farmers from their influence area.

Expecting your whole hearted co-operation.

Sincerely yours,

(N. MOHANAKUMARAN)

To

The Secretary (Rural Development)
Secretariat, Trivandrum.



KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURAL PRODUCTION
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Directorate of Research
Kerala Agricultural University
Vellanikkara - 680 654
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We are also arranging a Technical Discussion Session for farmers on 'Labour Friendly Farm Mechanisation - prospects and possibilities'. There will be video show. Participation of all the Agricultural Officers and farmers is needed to reap the real benefit of the show. This will be a unique opportunity to witness and interact.

As this is an educative programme, the VHSE students may be encouraged to visit the exhibition so that they can acquire better knowledge in this field.

Expecting your whole hearted co-operation.

Sincerely yours,

(N. MOHANAKUMARAN)

To

The Director (VHSE)
Directorate of VHSE
Trivandrum.



KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURAL PRODUCTION
FROM AUGUST 17 TO 19, 1996
AT
AGRICULTURAL RESEARCH STATION, MANNUTHY, THRISSUR

KERALA AGRICULTURAL UNIVERSITY

Agricultural Research Station
 Mannuthy - 680 651
 Dated 01.08.1996

No.B/1488/91

DR. U. JAIKUMARAN
 Assoc. Prof. & Head

☎ 0487-370726
 Fax 91 487 370019

Sir,

Sub:- ARS Mannuthy - Karshaka Mela 1996 - Exhibition on Labour Friendly Farm Mechanisation - date - informing - req.

Ref:- This office letter even No. dated 05.03.1996

Kerala Agricultural University (KAU) is organising a Karshaka Mela and an exhibition on 'Labour Friendly Farm Mechanisation' from 17th to 19th August 1996. We hope that many manufacturers of various farm implements, equipments, tools etc. will be co-operating with us to run the exhibition in a successful manner. This Exhibition is mainly intended to help the farmers to have first hand knowledge about different machinery, tools, equipments etc. available for labour friendly mechanisation and to witness the demonstration of these equipment and machinery.

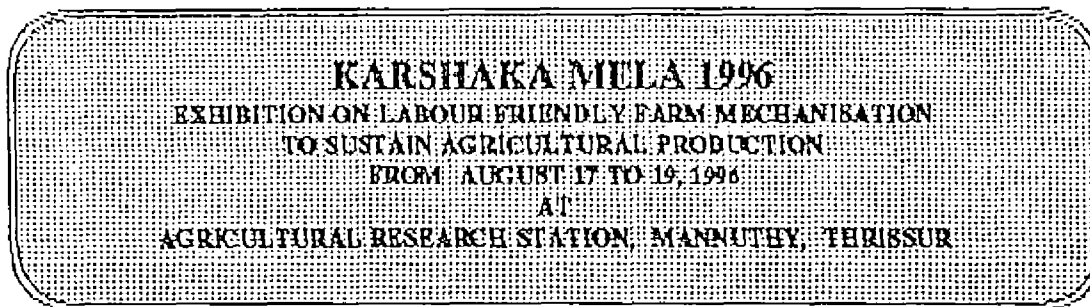
During the exhibition, we would like to have a video film show of all the available video films showing the performance of farm machinery, irrigation systems, plant protection equipments etc.

Please let us know whether you are having any video film on the above aspects and can be spared for the show. I request your reply by fax or courier service.

Yours faithfully,

(U. JAIKUMARAN)
 for Organising Committee

To



KERALA AGRICULTURAL UNIVERSITY

Agricultural Research Station
Mannuthy - 680 651
Dated 01.08.1996

No.B/1488/91

DR. U. JAIKUMARAN
Assoc. Prof. & Head



0487-370726
Fax 91 487 370019

Sir,

Sub:- ARS Mannuthy - Karshaka Mela 1996 - Exhibition on Labour Friendly Farm Mechanisation - date - informing - reg.

Ref:- This office letter even No. dated 05.03.1996

This is in continuation to the letter under refence. The Exhibition on 'Labour Firendly Farm Machanisation' is arranged from 17th to 19th August 1996 and we hope that your firm is participating in it. A registration form to ensure your participation is enclosed. Kindly fill it and send it by courier service.

A registration fee of Rs.1000/- (Rupees one thousand only) is being collected by us towards service provided by the station. This amount may be paid either as cash insitu or by Demand Draft payable at SBT, Ollukkara.

Expecting your whole hearted co-operation and successful participation.

Yours faithfully,

/s/

(U. JAIKUMARAN)
for Organising Committee



KARSHAKA MELA 1996
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Agricultural Research Station
Mannuthy - 680 651
Dated 05.08.1996

No.B/1488/91

☎ 0487-370726
 Fax 91 487 370019

REGISTRATION FORM

1. Name of the Firm :

2. Address :

Telephone No. :

Email No. :

Fax No. :

3. Details of exhibits and space requirement

Name of equipment on still display and area needed	Approximate area (m ²)	
	Covered	Open

4. Field demonstration

Name of equipment on field demonstration and area needed	Area	
	Covered	Open

5. Whether technical interpreter is needed for presentation :

6. Electrical connection requirement : Single/3 phase (No. of plug points) :

7. Any other special requirement needed :

8. Probable date of arrival :

9. Remarks :

10. Registration fee Rs.1000/- payable to the Comptroller, Kerala Agricultural University at State Bank of Travancore, Ollukkara Branch : D/D No. : Date : Amount :

Place :
Date :

Signature
Name & Address of the Authority



KARSHAKA MELA 1996
EXHIBITION ON LABOUR FRIENDLY FARM MECHANISATION
TO SUSTAIN AGRICULTURAL PRODUCTION
FROM: AUGUST 17 TO 19, 1996
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KERALA AGRICULTURAL UNIVERSITY

Agricultural Research Station
Mannuthy - 680 651
Dated 01.08.1996

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Assoc. Prof. & Head

☎ 0487-370726
 Fax 91 487 370019

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During the exhibition, we would like to have a video film show of all the available video films showing the performance of farm machinery, irrigation systems, plant protection equipments etc.

Please let us know whether you are having any video film on the above aspects and can be spared for the show. I request your reply by fax or courier service.

Yours faithfully,

(U. JAIKUMARAN)
for Organising Committee

To

**The Director of Extension , Kerala Agricultural University
and the members of the Organising Committee
cordially invite your esteemed presence
on the occasion of inauguration of
the three day exhibition on
'Labour Friendly Farm Mechanisation'
organised at
Agricultural Research Station, Mannuthy
from 17th to 19th August, 1996.
The exhibition will be inaugurated by the
Hon: Vice-chancellor of the Kerala Agricultural University,
Dr. A.M. Michael
on 17th August, 1996 at 10.00 hr.**

Soliciting your whole-hearted co-operation

**Mannuthy
10-8-1996**

**Director of Extension
Kerala Agricultural University**

**General Convener,
Organising Committee**

കാർഷിക ഗവേഷണ കേന്ദ്രം.
മണ്ണെത്തി - 10-08-1996.

സർ,

കേരള കാർഷിക സർവ്വകലാശാലയുടെ ഭൗതികവ്യവസ്ഥകളിൽ കാർഷിക ഗവേഷണ കേന്ദ്രം മണ്ണെത്തിയിൽ വെച്ച് 'ആഗസ്റ്റ് മാസം 17, 18, 19 എന്നീ തിയ്യതികളിൽ " തൊഴിലാളി-സൗഹൃദ ഫാം അന്വേഷണകേന്ദ്രം" എന്ന വിഷയത്തെ ആധാരമാക്കി ഒരു പ്രദർശനം നടത്തുന്നു. ഈ പ്രദർശനത്തിൽ കാർഷിക മേഖലയിൽ ലഭ്യമാക്കിയിട്ടുള്ള വിവിധവിനാശകരമായ അപകടങ്ങൾ, ജലസേചനോപാധികൾ, കീടനാശിനി ഉപകരണങ്ങൾ, സംസ്കരണ ഉപകരണങ്ങൾ എന്നിവ പ്രദർശിപ്പിച്ചു കാണിക്കുന്നതാണ്. നെല്ല് നട്ടിൽ അപകടം, കൊയ്ത്തു അപകടം, മെതി അപകടം, തേങ്ങ ചൊരിയുന്നവനുള്ള ഉപകരണം, ചക്ക പനിക്കുന്നതിനുള്ള ഉപകരണം, കുഴികൾ എടുക്കാനുള്ള അപകടം മുതലായ പല ഉപകരണങ്ങളും ഇതിൽ ഉൾപ്പെടുന്നു. ഈ പ്രദർശനം കാണുന്നതിന് താങ്കളെ വിനയപൂർവ്വം ക്ഷണിച്ചു കൊള്ളുന്നു...

എന്ന് ഉപചാരപൂർവ്വം,

കാർഗനൈസിംഗ് കമ്മിറ്റിക്കുവേണ്ടി,
ജനറൽ കൺട്രോളർ.

Encl XI



We cordially invite you to witness
an EXHIBITION on
"Labour Friendly Farm Mechanisation"
organised at

Agricultural Research Station, Mannuthy
from 17th to 19th August, 1996
under the auspices of
Kerala Agricultural University.

The show will display farm machinery,
implements, irrigation devices,
plant protection equipment etc.
available in the
agricultural production front today.

This includes Paddy transplanter, Harvester,
Thresher and Winnowing, Coconut dehusking tool,
Jack fruit harvester, Post-hole digger etc.

Time: 09.00 hrs to 18.00 hrs.

Director of Extension
Kerala Agricultural University

General Convener,
Organising Committee

Mannuthy
10-08-1996



കേരള കാർഷിക സർവകലാശാല

കാർഷിക ഗവേഷണകേന്ദ്രം, മണ്ണുത്തി

മാന്യരെ,

കേരള കാർഷിക സർവകലാശാലയുടെ ആഭിമുഖ്യത്തിൽ കാർഷിക ഗവേഷണകേന്ദ്രം മണ്ണുത്തിയിൽ വെച്ച് 1996 ആഗസ്റ്റ് 17, 18, 19 എന്നീ തീയതികളിൽ 'തൊഴിലാളി സൗഹൃദ ഫാം യന്ത്രവത്കരണം' എന്ന വിഷയത്തെ ആധാരമാക്കി ഒരു പ്രദർശനം നടത്തുന്നു. ഈ പ്രദർശനത്തിൽ കാർഷിക മേഖലയിൽ ലഭ്യമാക്കിയിട്ടുള്ള വിവിധ യിനം യന്ത്ര സാമഗ്രികൾ, ജലസേചനോപാധികൾ, കീടനാശിനി ഉപകരണങ്ങൾ, സംസ്കരണ ഉപകരണങ്ങൾ എന്നിവ പ്രവർത്തിപ്പിച്ചു കാണിക്കുന്നതാണ്. നെല്ല് നടീൽ യന്ത്രം, കൊയ്ത്തു യന്ത്രം, മെതി യന്ത്രം, തേങ്ങ പൊതിക്കുവാനുള്ള ഉപകരണം, ചക്ക പഠിക്കുന്നതിനുള്ള ഉപകരണം, കൃഷികൾ എടുക്കാനുള്ള യന്ത്രം മുതലായ പല ഉപകരണങ്ങളും ഇതിൽ ഉൾപ്പെടുന്നു. ഈ പ്രദർശനം മേൽപറഞ്ഞ തീയതികളിൽ രാവിലെ 9 മണി മുതൽ വൈകുന്നേരം 6 മണിവരെ ഉണ്ടായിരിക്കുന്നതാണ്. പ്രവേശനം സൗജന്യമാണ്. ഈ പ്രദർശനം കാണുന്നതിന് എല്ലാ കർഷകരെയും സാദരം ക്ഷണിച്ചു കൊള്ളുന്നു.

എന്ന് ഉപചാരപൂർവ്വം

ഓർഗനൈസിംഗ് കമ്മിറ്റിക്കു വേണ്ടി

ജനറൽ കൺവീനർ

An EXHIBITION on " *Labour Friendly Farm Mechanisation* " is organised at Agricultural Research Station, Mannuthy from 17th to 19th August, 1996 under the auspices of Kerala Agricultural University. The show will display farm machinery, implements, irrigation devices, plant protection equipment etc. available in the agricultural production front today. This includes Paddy transplanter, Harvester, Thresher and Winnower, Coconut dehusking tool, Jack fruit harvester, Post-hole digger etc. Exhibition will be inaugurated by Dr. A.M. Michael, Vice-Chancellor, KAU at 10.00 am on 17.08.96. Time of exhibition is from 9.00 am to 6.00 pm. Admission is free. All are cordially invited.

**Mannuthy
10-08-1996**

**General Convener,
Organising Committee**

201373

Encl. XV ①



KERALA AGRICULTURAL UNIVERSITY

AGRICULTURAL RESEARCH STATION

C E R T I F I C A T E

This is to certify that M/s.....

.....
has participated in the exhibition on " Labour Friendly Farm Mechanisation "
held at this station from 17th to 19th August 1996 in connection with the Farm
Day Celebration 1996.

Mannuthy

20.08.1996

Associate Professor and Head
&
General Convenor, Organising Committee