



ABSTRACT

Agriculture and Farmers Welfare Department – Tamil Nadu Agricultural University – Announcement made by the Hon'ble Minister for Agriculture and Farmers Welfare during Agriculture and Farmers Welfare Department Demand 2021-2022 – **“Starting of two year diploma course in Agricultural Engineering at Kumulur Agricultural Engineering College in Trichy District”** at a cost of Rs.1.00 crore under the Tamil Nadu Agricultural University's Self Supporting Scheme Fund - Approval – Accorded - Orders - Issued.

AGRICULTURE AND FARMERS WELFARE (AU) DEPARTMENT

G.O.(Ms).No.202

Dated: 20.11.2021

திருவள்ளூர் ஆண்டு 2052

பிலவ வருடம்

கார்த்திகை திங்கள் 4-ஆம் நாள்

Read:

From the Vice Chancellor, Tamil Nadu Agricultural University
Letter No.TNAU- Honorable Minister's Announcements -2021-
Sl.No.10 Proposal, dated 01.10.2021.

ORDER:

During the Agriculture and Farmers Welfare Department Demand 2021 – 2022, among others, the Hon'ble Minister for Agriculture and Farmers Welfare has made the following announcement on the Floor of the Assembly :-

“10. வேளாண் இயந்திரங்களை கிராமப் பகுதிகளிலேயே பழுதுபார்க்க ஏதுவாக, திருச்சி மாவட்டம், குமுளூர் வேளாண்மைப் பொறியியல் கல்லூரி மற்றும் ஆராய்ச்சி நிலையத்தில், இரண்டு வருட வேளாண் பொறியியல் பட்டயப்படிப்பு ஒரு கோடி ரூபாய் மதிப்பில் துவங்கப்படும்”

2. The Vice Chancellor, Tamil Nadu Agricultural University in his letter read above has sent a proposal to the Government to start a two year diploma course in Agricultural Engineering at Kumulur Agricultural Engineering College in Trichy District at a cost of Rs.1.00 crore under Tamil Nadu Agricultural University's – Self Supporting Scheme Fund.

3. In his proposal, the Vice Chancellor, Tamil Nadu Agricultural University has stated that Government of Tamil Nadu through Agricultural Engineering Department helped mechanization of farms through establishment of Custom Hiring Centres. Major constraint present in the Custom Hiring Centres is the non-availability of skilled persons trained on the operation, repair and maintenance of Agricultural machinery. Also, establishing a small scale service centre at village level will augment the adoptability of farm machinery. By providing Diploma in Agricultural Engineering, skilled man, power will be provided to the society, to help to establish village level farm machinery repair and service centres for carrying out the repair works of farm machinery and equipment. Moreover, modern irrigation systems, Agricultural Processing Centres and Renewable Energy gadgets require skilled persons' involvement for efficient functioning to get the best performance, benefiting the farming community. Hence, it is proposed to start Diploma programme in Agricultural Engineering.

4. The following are the objectives:-

To generate skilled technical man power for repair and maintenance of agriculture machinery at village level.

5. The duration of the program is as follows:-

Duration	:	2 years (4 semesters)
Eligibility	:	10+2 qualification in regular
No. of Seats	:	40

6. The activities to be undertaken are as follows:-

To train the students in the following fields for acquiring skills of repair and maintenance of Farm Machinery, Soil and Water Conservation Engineering equipment, Irrigation and Drainage Engineering equipment, Food Process Engineering machineries and Renewable Energy Engineering gadgets:-

- Knowledge pertaining to tractor and its power units like engine and lubricating systems, transmission system, clutch, gear system, cooling systems, hydraulic system, steering system and tractor power outlets like Power Take Off, belt pulley, drawbar and hydraulic power.
- Knowledge pertaining to operation and maintenance of tractors, power tillers and earth moving machinery like periodical maintenance, troubleshooting and their remedial measures.

- Impart knowledge to the students on primary and secondary tillage implements along with earth moving machinery, seeding equipment, etc.
- Impart knowledge to the students on different intercultural, plant protection and harvesting machinery and to acquire skills in operation of machineries.
- Develop and practice hands on training to the various operating, repair, maintenance and service skills on farm machinery.
- Equip the students with the subject of soil erosion, erosion control and water conservation measures.
- Students to acquire knowledge and skills on hydrological (rainfall and runoff) measurements in watersheds and watershed management in natural resources management.
- Provide knowledge and exposure to the students about various concepts of irrigation projects and drainage practices.
- To enrich and acquaint the students with estimating the crop and irrigation water requirements, different surface irrigation methods and open channel, lined and unlined channel.
- To impart knowledge and operating skills to students with respect to sprinkler and drip irrigation systems.
- To provide the practical knowledge on protected cultivation.
- To acquire the knowledge on different irrigation wells and their maintenance. Further students get thorough knowledge on various pumps, operation, construction, maintenance and installation with due importance to find out the trouble and cost of operation.
- To impart the knowledge on various processing technologies of grains and equipment involved in the operation to enable the students to acquire skills to understand the various processing operations.
- Impart basic and applied knowledge on operation and maintenance of food and dairy processing machinery to the students.
- Equip the students to understand the renewable energy technologies, principles and applications, thereby preparing them to operate efficiently and make proper maintenance of renewable energy gadgets predominantly used in crop production system.

7. The beneficiaries are as follows:-

- Operators of custom hiring centres and High-Tech machinery hub established at village and block level.
- Drip and sprinkler irrigation industries and farmers.
- Green house cultivators and energy gadget industries and users.
- Agricultural Machinery Manufacturers.
- Dairy and food industry sectors and users.

8. The budget requirement for the project is as follows:-

Amount sought for: Tamil Nadu Agricultural University's – Self Supporting Scheme Fund

Details of Minimum Teaching Staff and Non-Teaching staff for Diploma in Agricultural Engineering

(A) Minimum teaching staff required for Diploma in Agricultural Engineering

Discipline	Cadre	No. of staff / Salary required		Amount (Rupees in lakh per annum)
Farm Machinery and Power Engineering	Assistant Professor	1	@ Rs.80,000/- per month	9.60
Soil and Water Conservation Engineering	Teaching Assistant with M.Tech.	1	@ Rs.38,000/- per month	4.56
Total		2		14.16

(B) Minimum Non-Teaching staff required for Diploma in Agricultural Engineering

Cadre	No. of staff / Salary required		Amount (Rupees in lakh per annum)
Contractual Agricultural Engineer	4	@ 19,000 per month	9.12
Contractual Skilled Artisan (Fitter, Welder, Machinist, Turner and other trades)	6	@ 15,000 per month	10.80
Total	10		19.92

(C) Year wise budget estimate (Rupees in lakh):

Head of account	1 st year	2 nd year	Total
Cost of personnel (CP)	34.08	34.08	68.16
Recurring contingencies	15.92	15.92	31.84
Total	50.00	50.00	100.00

9. The outcome of the project is as follows:-

- Skilled technical man power for repair and maintenance of agriculture machinery at village level.
- Generating self-employment for rural youth resulting in better adoption of agricultural machinery towards increasing productivity.

10. The Government, after careful examination of the proposal of the Vice Chancellor, Tamil Nadu Agricultural University and considering the outcome of proposed project on its implementation, hereby accord approval to the Vice Chancellor, Tamil Nadu Agricultural University for **“Starting of two year diploma course in Agricultural Engineering at Kumulur Agricultural Engineering College in Trichy District”** at a cost of Rs.1.00 crore (Rupees One Crore only) from the Tamil Nadu Agricultural University’s – Self Supporting Scheme Fund to facilitate on-site servicing of the Agricultural machines in Rural areas, as detailed below:-

Details of Teaching Staff and Non-Teaching staff for Diploma in Agricultural Engineering

(A) Teaching staff:-

Discipline	Cadre	No. of staff / Salary required		Amount (Rupees in lakh per annum)
Farm Machinery and Power Engineering	Assistant Professor	1	@ Rs.80,000/- per month	9.60
Soil and Water Conservation Engineering	Teaching Assistant with M.Tech.	1	@Rs.38,000/- per month	4.56
Total		2		14.16

(B) Non-Teaching staff:-

Cadre	No. of staff / Salary required		Amount (Rupees in lakh per annum)
Contractual Agricultural Engineer	4	@ 19,000 per month	9.12
Contractual Skilled Artisan (Fitter, Welder, Machinist, Turner and other trades)	6	@ 15,000 per month	10.80
Total	10		19.92

(C) Year wise budget:-

(Rupees in lakh)

Head of account	1 st year	2 nd year	Total
Cost of personnel (CP)	34.08	34.08	68.16
Recurring contingencies	15.92	15.92	31.84
Total	50.00	50.00	100.00

11. This order issues with the concurrence of Finance Department vide its U.O.No.51283/Finance(Agri.& FW)/2021, dated 20.11.2021.

(BY ORDER OF THE GOVERNOR)

C. SAMAYAMOORTHY
AGRICULTURAL PRODUCTION COMMISSIONER
AND SECRETARY TO GOVERNMENT

To

The Vice Chancellor, Tamil Nadu Agricultural University, Coimbatore - 3.
The Director of Local Fund Audit, Chennai - 108.
The Deputy Director of Local Fund Audit, Coimbatore-3.
The Principal Accountant General (A&E / Audit / AAD / G&SSA / E&RSA),
Chennai-18.
The Resident Audit Office, Office of the Principal Accountant General
(Social Sector Audit), Chennai-9.

Copy to:-

The Chief Minister's Office, Secretariat, Chennai-9.
The Special Personal Assistant to the Hon'ble Minister for Finance and
Human Resources Management, Secretariat, Chennai-9.
The Special Personal Assistant to the Hon'ble Minister for Agriculture and
Farmers Welfare, Secretariat, Chennai-9.
The Senior Private Secretary to the Agricultural Production Commissioner
and Secretary to Government, Agriculture and Farmers Welfare
Department, Chennai-9.
The Assistant Programmer, Agriculture and Farmers Welfare Department,
Chennai -9
The Finance (Agri. & F.W.) Department, Chennai-9.
The Agriculture and Farmers Welfare (OP3) Department, Chennai -9.
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/Forwarded by order/

20/11/2021
20/11/2021
Section Officer

20/11/2021
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