

# **ACHARYA N.G.RANGA AGRICULTURAL UNIVERSITY**

Admn. Camp Office: Vijaya Durga Towers: M.G.Inner Ring Road: Guntur – 522 509: A.P.

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No.2156/Acad/2016

Dated 30-09-2016

## **NOTICE INVITING EXPRESSION OF INTEREST (EOI) for Affiliation of Private Agricultural Colleges**

EOI is invited from reputed institutions run by Societies / Trusts / NGO's / Social Service Organizations for **establishment of Private Agricultural Colleges** in Andhra Pradesh, with affiliation to ANGRAU. The earlier notification dated 05.07.2016 inviting Expression of Interest for affiliation of Private Agricultural Colleges has been cancelled in view of poor response.

Reputed Institutions may express their interest as per the proforma and details indicated in the University website [www.angrau.ac.in](http://www.angrau.ac.in) to the REGISTRAR, ANGRAU, Administrative Camp Office, Vijaya Durga Towers, M.G. Inner Ring Road, Guntur – 522 509, A.P., latest by 5:00 p.m. on 21-10-2016 in a sealed cover superscribing “**Expression of Interest for Private Agricultural Colleges**” along with the prescribed fees.

**T.V.SATYANARAYANA  
REGISTRAR**

**NOTE:** *Since, earlier notification dated 05-07-2016 has been cancelled, the Registration fee/Application fee/Inspection fee paid by applicants will be refunded soon.*

*Hence, it is informed that if the applicants under the notification dated 05.07.2016 intend to apply again in response to this fresh notification dated 30.09.2016, the Registration and Application fee has to be paid again along with fresh application failing which the applications will not be considered.*

# **NORMS, REQUIREMENTS AND GUIDELINES FOR PRIVATE AGRICULTURAL COLLEGES FOR AFFILIATION TO THE ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY**

## **1. PREAMBLE**

The Acharya N.G. Ranga Agricultural University, Guntur invites “Expression of Interest” from reputed Societies/ Trusts / NGO’s / Social Service Organisations/Educational institutions, who have a service motto and not for profit motto for serving the Agricultural Sector and Farmers in Andhra Pradesh, with affiliation to ANGRAU, through establishment of private Agricultural Colleges during the Academic Year 2016-2017 in the state of Andhra Pradesh. The Applicant should submit “Expression of Interest (EOI)” to the University as per the prescribed Proforma addressed to the **Registrar, ANGRAU, Administrative Camp Office, MG InnerRing Road, Guntur 522509, Andhra Pradesh**, duly following the guidelines enclosed. The application proforma and the details of norms, requirements and guidelines for private agricultural colleges can be downloaded from university website.

### **About the Acharya N.G. Ranga Agricultural University (ANGRAU)**

Acharya N.G. Ranga Agricultural University is the only farm university in Andhra Pradesh, established on the 12<sup>th</sup> of June, 1964 as Andhra Pradesh Agricultural University (APAU) at Rajendranagar, Hyderabad. The University was renamed as Acharya N.G. Ranga Agricultural University (ANGRAU) w.e.f the 7<sup>th</sup> of November, 1996, in honour of Acharya N.G. Ranga, an eminent Parliamentarian, *Kisan* leader and Educationist of Andhra Pradesh. The Veterinary and Horticultural faculties which were earlier integrated with the ANGRAU were divested as S.V. Veterinary University and Dr.Y.S.R Horticultural University in 2005 and 2007, respectively. Due to reorganization of State of Andhra Pradesh, the jurisdiction of the ANGRAU is over 13 districts of the new Andhra Pradesh state. The University is running five Agricultural Colleges (Bapatla, Tirupati, Naira, Mahanandi and Rajamahendravaram), two Colleges of Agricultural Engineering and Technology (Bapatla and Madakasira), two Colleges of Food Science and Technology (Bapatla and Pulivendula), one College of Home Science (Guntur), one Advanced Post Graduate Centre at Guntur and Institute of Agribusiness Management at Tirupati. It is also running 17 Polytechnics. In addition, 39 Private Polytechnics are affiliated to the University.

The University is also involved in Research activities on all agricultural crops being cultivated in the state spread over in six Agro-climatic Zones. It is having six Regional Agricultural Research Stations and 27 Agricultural Research Stations. The University is running 13 District Agricultural Advisory and Transfer of Technology Centres (DAATTC) located in 13 districts and 12 *Krishi Vigyan Kendras* (KVK).

## **2. NORMS AND GUIDELINES**

The following norms and guidelines are proposed for quality education in Private Agricultural Colleges to get affiliation to Acharya N G Ranga Agricultural University (ANGRAU).

### **2.1 Mandatory condition**

The College shall be managed by a duly constituted and registered Society/ Trust registered under Registration of Societies of Act, 1860 / Charitable Trust Act, 1950 or any other relevant Acts.

### **2.2 Land requirements**

- a) Undisputed ownership and possession of land of 110 acres registered in the name of the Society / Trust is essential and the land should be cultivable and available at one or two locations (only). In case of two locations, the distance between them should be within a radius of 10 km from municipal/panchayat limits. Lease will not be accepted. Preference will be given to Societies/Trusts which have land in a single bit.
- b) Cultivable land (100 acres) should have all types of land specified below. If not, all such types of land shall be made available by the end of 1<sup>st</sup> semester or 6 months whichever is earlier, after granting the affiliation. If the Land in two locations, it is mandatory for the Management to provide bus transport facility without any costs so that the students can reach the farm without any loss of time.
- c) A report on the undisputed Land ownership and position will be obtained from the Collector and District Magistrate concerned for the shortlisted applications.
- d) Permission to use part of the land (10 acres) for construction of the college should be obtained from the competent revenue authority should be produced along with the EOI application.

S. No	Type of land	For degree programme ( in acres)
<b>I. Cultivable land</b>		
1	Wet land	10
2	Dry land	20
3	Garden land	15
4	Orchard	25
5	Botanical garden	20
6	Herbal garden	5
7	Wood land (agro-forestry)	5
	<b>Total</b>	<b>100</b>
<b>II. Buildings</b>		
	College building, play ground and farm office	10
	<b>Grand Total</b>	<b>110</b>

*The following definitions are considered*

*Wetland:*

*Areas that are regularly wet or flooded; areas with a water table within the root zone or standing or at above the land surface for at least part of the growing season.*

*Dryland:*

*Drylands are defined by their scarcity of water. They are zones where precipitation is counter balanced by evaporation from surfaces and transpiration by plants (evapotranspiration). UNEP defines drylands as tropical and temperate areas with an aridity index of less than 0.65.*

*Orchard:*

*An orchard (enclosure with garden of fruit trees) is an intentional planting of trees or shrubs that is maintained for food production. Orchards comprise fruit, vegetable, and nut-producing trees which are grown for commercial production. Orchards are also sometimes a feature of large gardens, where they serve an aesthetic as well as a productive purpose*

*Botanical garden:*

*A botanical garden is a controlled and staffed institution for the maintenance of a living collection of plants under scientific management for purposes of education and research, together with such libraries, herbaria, laboratories, and museums as are essential to its particular undertakings. Each botanical garden naturally develops its own special fields of interests depending on its personnel, location, extent, available funds, and the terms of its charter. It may include greenhouses, test grounds, an herbarium, an arboretum, and other departments. It maintains a scientific as well as a plant-growing staff, and publication is one of its major modes of expression.*

*Herbal garden:*

*The herb garden is often a separate space in the garden, devoted to growing a specific group of plants known as herbs. These gardens may be informal patches of plants, or they may be carefully designed, even to the point of arranging and clipping the plants to form specific patterns, as in a knot garden.*

*Gardenland: These are the areas other than wetlands includes the environment and soil characteristics used for cultivation of crops, trees and rearing animals.*

*Woodland (Land covered with forest): Woodland is a low-density forest forming open habitats with plenty of sunlight and limited shade. Woodlands may support an understory of shrubs and herbaceous plants including grasses. Woodland may form a transition to shrubland under drier conditions or during early stages of primary or secondary succession. Higher density areas of trees with a largely closed canopy that provides extensive and nearly continuous shade are referred to as forests.*

### **2.3 Financial Position**

- a) Trust / Society shall satisfy the University that adequate funds are available for running the College for at least three years. This should be given in the form of FDRs / Bank Accounts in any Nationalized Bank or Scheduled Commercial Banks recognized by the RBI. The institution should have adequate funds to run the institution and an undertaking to that effect should be submitted to the University along with the following documents.

Year	Minimum funds required as a proof of operational expenses (Rupees in Lakhs)
First Year	300
Second and Third year	Sufficient fund position statement (generated through fees, revenue from the land, deposit amounts etc.,) towards running the college and development of complete infrastructure, duly certified by the competent authority

## 2.4 General Conditions

- a) The Trust/ Society desirous of starting a new Agricultural College and get affiliated to the ANGRAU shall apply in the prescribed proforma (Annexure – I) of the University to the Registrar, ANGRAU, Admin. Camp Office, Guntur. Filled - in application should be sent to the Registrar, ANGRAU, Admn. Office, Guntur only along with the Registration and Application fee specified in Annexure – II for a degree program.
- b) The fee should be paid in the form of Demand Draft drawn in favour of the Comptroller, ANGRAU payable at Guntur.
- c) The documents to be submitted along with the application are furnished in Annexure – III.
- d) After preliminary processing of the application (completion of Phase I as specified in Annexure -IV), the Committee formed by the ANGRAU will inspect the location, infrastructure, etc. An inspection fee (non refundable) has to be paid before inspection of the Committee (Annexure – V). The minimum gap for the first and the second inspection (If any deficiencies identified by the Committee during the first visit) of the Committee is 2 months.
- e) On the Committee's recommendation, an amount of Rs. 20,00,000/- (Rupees twenty lakhs only) is to be paid to the University towards Affiliation fee (non refundable) for degree programme, which is to be paid in the form of Demand Draft drawn in favour of **The Comptroller, ANGRAU** payable at Guntur
- f) Affiliation will be given to begin with, for only one UG degree program on temporary basis and based on the fulfillment of all the conditions and subject to the satisfactory performance, affiliation will be renewed. Any deviation or non fulfillment of the requirements will lead to de-affiliation by the ANGRAU.

- g) The Trust / Society should furnish all the certificates mentioned in Annexure – VI to the ANGRAU for final consideration for affiliation of courses.
- h) The land earmarked for the College purpose should not be used for any other purposes.
- i) The College should be started and run with 100% self finance without expecting Government grant / aid.
- j) Qualified staff shall be recruited in advance of start of Academic activity by paying salary and other emoluments as per norms fixed by the University.
- k) Corpus fund of Rs. 50,00,000/- (Rupees Fifty Lakhs only) for each degree program should be deposited jointly on the name of the Comptroller, ANGRAU and Registered Trust/ Society. The interest accrued from the fund may be utilized by the College for strengthening its infrastructural development duly obtaining prior permission from the ANGRAU. The original receipt of the deposit will be kept with the Comptroller, ANGRAU.
- l) The Trust / Society should pay any service fee and other charges due to the Central and State Governments / Government Agencies for the education and other activities, if any.
- m) The Trust / Society should submit a Certificate to the effect that “NO CAPITATION FEE” will be collected from the students seeking admission in the above institute.
- n) Failing to satisfy any of the above conditions and / or violation of any Acts, Rules, prescribed in the Government orders in force, will lead to cancellation of the affiliation given to the Trust / Society.
- o) The Board of Management, ANGRAU, on the recommendation of the Academic Council, has got the fullest power in modifying any one part / all of the guidelines without prior notice to the Trust/ Society.
- p) Once the Institution and Program are affiliated with the ANGRAU, it should not be affiliated to any other Universities/ Institutes in India or Abroad.

### **3. AFFILIATION APPROVAL**

- a) The minimum facilities required to start the first year course and time frame for completion of required infrastructure are as follows;

<b>Item</b>	<b>First Year</b>	<b>Before end of II Year</b>	<b>Before end of III Year</b>
Land availability	100%	--	--
Administrative wing	As shown in the Annexure- VII	--	--
Hostel facility		75%	100%
Laboratories		75%	100%
Library with first year books		--	--
Lab equipment and chemicals		75%	100%
Lecture halls, labs		75%	100%
Positioning of all staff suggested for handling courses and other requisites		75%	100%

- b)** The Committee for affiliation shall critically assess the potential and only upon their satisfaction, conditional affiliation can be given. The Committee shall visit the College after one year and upon satisfaction shall approve the continuation of the course to the subsequent year and also for further admission of new batches of students. Thereafter, the Committee may visit once in two years for sustainability of the program. During any of the visit of the committee, if the College doesn't fulfill these norms, the affiliation shall be withdrawn. Subsequently, the College shall become eligible for accreditation, if it fulfills the norms. Any non-compliance by the Trust/ Society will lead to de-affiliation.
- c)** The affiliation is only to impart instruction in the subjects and for the courses/programs in the faculties for which affiliation has been granted by the University. All such courses/programs shall follow the syllabi approved by the Academic Council of the University, ANGRAU.
- d)** The number of teaching posts, the qualification of the teaching staff and their recruitment/promotion procedures should be as prescribed by the ANGRAU and conditions of service shall be in accordance with the Statutes/Ordinance/Regulations of the University/State Government.
- e)** For the appointment of the Associate Dean (Principal) of the College, the following guidelines shall be followed;
- The College management will submit to ANGRAU a panel of three names, who have at least five years of experience in the cadre of Professor with a basic degree in Agriculture and who are less than 70 years of age along with



their CVs with details of qualification and experience.

- The ANGRAU will select one person out of the list recommended for appointment and it is mandatory for the college management to appoint such person as the Associate Dean.
  - If the University is of the opinion that the names suggested by the college management are not suitable for appointment, the university may ask the college to suggest another panel of three names.
  - If the university considers that the persons in the panel suggested second time by the college are also not suitable for appointment, the university may suggest any person for appointment of Associate Dean.
  - The appointment of the Associate Dean shall be for a period of one year only initially and extendable every year subject to prior approval by the university.
- f)** The Trust/Society should accommodate students in Hostels soon after admission and see that all amenities are provided in the Hostels.
- g)** The pay and allowances to the teaching and non-teaching staff should be paid regularly as per the pay scales prescribed by the UGC/ICAR/State Govt./University as the case may be from time to time.
- h)** The Trust/Society shall not demand or accept any donation or resort to other forms while recruiting teachers / non-teaching staff and strictly follow the procedures in vogue in Government / University.
- i)** The age for contractual teaching staff shall be relaxed up to 70 years only (UGC norms) and shall be within the limit of 20% of the total faculty in any case.
- j)** All fees to be collected from the students shall be as per the fee structure based on the norms of the ANGRAU from time to time.
- k)** Not to collect any capitation fee or donation or any form on behalf of any of its students or their parents/guardians either directly or through any of its associated Trust, Society etc.
- l)** The College/Institute shall not admit students in excess of the sanctioned strength specified for the program of study by the University.
- m)** The College/Institute shall not, without prior permission of the University, suspend offering an already approved course/program of study.

- n) The College/Institute shall produce all registers and records, including audited statement of accounts, as required to be maintained under the Regulations/Orders of the University/ Government as and when required for inspection.
- o) The College/Institute shall comply with such other conditions, as may be prescribed from time to time by the University/Government.
- p) Only those Institutions that have completed four years and have successfully brought the first batch students will be permitted to apply for assessment and increase in seat intake of students to a maximum of 120.
- q) The Trust/Society proposing the College shall execute anMoU agreeing with all the conditions with ANGRAU valid for a period of three years. After three years, if the Society / Trust fulfills all the requirements, then a fresh MOU will be executed.

#### **4. ADMISSION**

##### **4.1 Name of the Degree, Eligibility Criteria and Seat Allotment**

- a) Minimum educational requirement for admission to **B.Sc. (Ag).** degree programme is 10+2 or Intermediate with Biology, Physics and Chemistry.
- b) The admissions for the above course will be done by ANGRAU for those who have qualified in EAMCET and based on rank.
- c) The intake of students in each Agricultural College for the four years B.Sc. (Ag.) degree is not more than 60 and will be decided by the University. The admissions of students will be done in the following manner. Reservation guidelines adopted in Government shall be followed. (1) 65% of the sanctioned strength will be by the ANGRAU under single window counselling system and (2) the remaining 35 % of the sanctioned strength shall be admitted by the Management of the College / Institute from the eligible candidates already applied to ANGRAU for the management quota. The Management quota seats should be filled up and list of names with EAMCET ranks should be submitted to the university before the commencement of Academic session duly following the rules of government

##### **Reservation of Seats:**

**Backward Classes : 29%** of seats are reserved under this category (BC-A – 7%; BC-B – 10%; BC-C – 1%; BC-D – 7%; BC-E – 4%)

**Scheduled Caste (SC) : 15%**

**Scheduled Tribe (ST) : 6%**

**Other Reservations (Special Categories):**

a) Defence Personnel(CAP) ... **2%**

b) National Cadet Corps.(NCC) ... **1%**

c) Games & Sports ... **0.5%**

d) Physically Challenged ... **3%**

i) 1% for Visually Handicapped

ii) 1% for Hearing Impaired

iii) 1% for Orthopedically Handicapped

**Reservation of seats for Women:**

In each course,  $33\frac{1}{3}\%$  of the seats shall be reserved in favour of women candidates from each category. (G.O.Ms. No. 75 / Edn., dated 13-3-1996 of Govt. of A.P.)

**Allocation of seats:**

**15% of seats shall be Un-Reserved (UR) for candidates from AU / SVU region. Candidates from Osmania University (OU) region also can compete for these seats with AP EAMCET 2016 ranks.**

**For the 85% local seats, the seats shall be allocated in 42:22 ratio in Andhra University and Sri Venkateswara University, respectively among the candidates in relation to local area.**

**4.2 Syllabus & Medium**

a) Course curriculum adopted in the ANGRAU shall be followed in Private Agricultural Colleges also. The medium of instruction is English.

**4.3 Duration of the Degree**

a) Four Years with 8 Semesters

#### **4.4 Fee Structure (as per Appendix – II)**

- a) The admission and tuition fee are as prescribed by the ANGRAU should be collected for all the candidates including management quota.
- b) Sixty five (65%) per cent of the examination fee per student per semester towards University Examination Fee has to be paid to ANGRAU within one month from the commencement of the semester.
- c) Seat Cancellation Fee is as per the ANGRAU guidelines.

#### **4.5 Academic Calendar and Examinations**

- a) The Society / Trust running the Private Agricultural College shall follow the ANGRAU's Academic calendar and Examination schedule. The paper setting, evaluation and approval of grade points to the students for the examinations will be done by ANGRAU.

#### **4.6 Rules and Regulations**

- a) The Rules & Regulations framed for UG students of ANGRAU regarding conduct and discipline including anti ragging rules as per Supreme Court Guidelines as given in ANGRAU – Regulations – 1986 (amended vide Proc.No.10082/Acad-II/A2/2001) dt: 12-10-2001) ( applicable to the students of all Agricultural Colleges both Government and private affiliated to ANGRAU.)

**4.7 Award of Degree:** Degree will be awarded by the ANGRAU.

### **5. STAFF AND INFRASTRUCTURAL DETAILS REQUIRED**

- a) The staff and infrastructural facilities as prescribed by ICAR and ANGRAU have to be followed and the details are given in Annexure V.

### **6. DE-AFFILIATION RULES**

6.1 The private Agricultural Colleges can be de-affiliated for the following reasons:

- a) The privileges conferred on a College by affiliation may be withdrawn in part or in full, suspended or modified, if the College, on due enquiry is found to have failed to comply with any of the provisions of the Act, the Statutes, the Ordinances, the Rules and Regulations or any other direction or instruction of

the ANGRAU or failed to observe any of the conditions of affiliation, or has conducted itself in a manner prejudicial to the academic and administrative standards and interests of the University.

- b) If an affiliated College ceases to function or is shifted to a different location or is transferred to a different Society, Trust, Individual, or a Group of Individuals without the prior approval of the University, the affiliation granted to the College shall lapse automatically. In such cases, the University/Government shall have the duty to alleviate the problems of the affected students in an appropriate manner as per its decision.

## **7. ARBITRATION**

- a) Any dispute arising arising between ANGRAU and Private affiliated college shall be resolved by a Committee nominated by Board of Management of the ANGRAU. The Vice – Chancellor, ANGRAU, is the final authority for arbitration purposes and the jurisdiction lies within Andhra Pradesh state only.

**ANNEXURES**

**Annexure I**

**ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY**

**(An Institute of National Importance)**

**Admn.Camp Office, Guntur – 522 509.**

**Application for Starting New Private Agricultural College for affiliation**

**The Trust/Society/Organisation should clearly state their Vision and Mission which will be considered during the process of evaluation**

A. **VISION** ( Enclose in separate sheets)

B. **MISSION** (Enclose in separate sheets)

**1. Status of the Organisation/Institution: (Please attach the copy of Bye Laws /Constitution)**

a. Registered Society  :

b. Trust

c. Others (Please specify)

<b>2.</b>	<b>DETAILS OF EDUCATIONAL AGENCY</b>	
	<b>TRUST / INSTITUTION / SOCIETY</b>	<b>TRUSTEE / SECRETARY</b>
Name: .....	Name:.....	Name:.....
Address : .....	Address : .....	Address : .....
.....	.....	.....
.....	.....	.....
Phone No: (O)	Phone No: (O)	Phone No: (O)
(R)	(R)	(R)
(M)	(M)	(M)
E-mail :	E-mail :	E-mail :
Fax :	Fax :	Fax :

<b>3.</b>	<b>DETAILS OF PROPOSED COLLEGE</b>		
a.	Name:		
b.	Address:..... ..... ..... ..... ..... .....		
c.	Phone No:	e.	Fax No:
d.	Website:	f.	E-mail:

**4 . Location of the proposed college:**

- a. Name of the City/Town/Village Panchayat :
- b. Revenue District :
- c. Nearest post office :
- d. Nearest Railway station :

**5. Land Details**

- a. Site Survey No. of the Land  
(Please attach the map of the Location) :
- b. Area of the Land :
- c. Nature of ownership (Please attach the copy :  Own  In the Name of the trust/Society  
of the original documents)
- d. Whether the land is clearly demarcated by Fencing/ boundary wall (Please attach  
the copy of the original documents and the topographical sketch of the College)
- e. Whether the land is contiguous  Yes  No  
 Yes  No

- f. Whether the land is at two locations  Yes  No
- g. Whether the land use certificate obtained  Yes  No
- h. Whether the surroundings are suitable for Educational purpose  Yes  No
- i. Whether the Society / Trust has other institutions in the same premises  Yes  No

(Please provide the Details)

**6. Need and justification for establishing the new college:**  
(Attach the justification)

**7. Building Details (The College should have a permanent building) Permanent Building**

a. Location

b. Whether building plan is approved by local authorities / Town and Planning  Yes  No

c. Whether the building is RCC Roofed  Yes  No

d. Building completion certificate obtained (Please attach a copy)  Yes  No

e. Stability certificate of the building obtained (Please attach a copy)  Yes  No

f. Whether adequate arrangements are made for the disposal of the laboratory wastes  Yes  No

g. Whether adequate Toilet facilities available for Gents / Ladies  Yes  No

h. Whether the buildings have trouble free access for persons with disability.  Yes  No

**8. DETAILS OF FACILITIES AVAILABLE**

**(a) Class Rooms**

S. No	Room No.	Area in Sq.ft.	Proposed No. of Students to be accommodated (Norms: 10 sq.ft per Student)
i.			
ii.			
iii.			
iv.			



**(b) Laboratory**

<b>S. No</b>	<b>Room No.</b>	<b>Area in Sq.ft.</b>	<b>Proposed No. of Students to be accommodated (Norms: 35 sq.ft per Student)</b>
<b>i.</b>			
<b>ii.</b>			
<b>iii.</b>			
<b>iv.</b>			

**(c) Computing facilities**

<b>S. No</b>	<b>Details</b>	<b>Configuration</b>
<b>i.</b>	<b>Server</b>	
<b>ii.</b>	<b>Terminals</b>	
<b>iii.</b>	<b>Printer</b>	
<b>iv.</b>	<b>Networking</b>	
<b>v.</b>	<b>Internet – Broadband connectivity</b>	

**(d) Whether the college has the requisite furniture in the class rooms and laboratories.**

Yes	No
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**(e) Library Facilities**

<b>S. No</b>	<b>Facilities</b>	<b>Available / Not Available</b>
<b>i.</b>	Area of the Library	
<b>ii.</b>	Furniture	
<b>iii.</b>	Seating Capacity	
<b>iv.</b>	Reprographic facility	
<b>v.</b>	Availability of Internet (Give Details)	
<b>vi.</b>	No. of Books	
<b>vii.</b>	No. of Test books	
<b>viii.</b>	Reference books	
<b>ix.</b>	Journals	

**(f) Play Ground Facilities**

- i. Area of land available :
- ii. Facilities available for outdoor games :
- iii. Provision for indoor games :

**(g) Hostel** (please tick the relevant box) :

i. Boys  ii. Girls

ii. Whether the hostel is RCC roofed rooms  Yes  No

iii. Hostel Strength

S. No		No. of rooms	No. of students / Room
1	Boys		
2	Girls		

iv. Whether the hostel has proper cooking facilities  Yes  No

v. Whether the hostel has proper furniture and fittings  Yes  No

vi. Utilities

S. No	Details	Yes	No
a	Toilets		
b	Bath rooms		
c	Drinking water		
d	Water for other use		
e	Laundry facilities		
f	Telephone		
g	Internet		
h	Recreation facilities		
i	Medical facilities		

**(h) Transport Facilities for Field Visit**

S. No	Details	Yes	No
a	Car		
b	Jeep/ Car for staff		
c	Bus		
d	Pickup van		
e	Tractors with Trailer		

**9. Details of financial allotment from the educational agency for running the college**

S. No	Estimated facilities	Source of funds	Amount (Rs.)
a	Building		
b	Laboratories		
c	Library books		
d	Furniture and fittings		
e	Hostel		
f	Recurring expenditure		
g	Others		
	Total amount (Rs.)		

10. Whether the Trust / Society undertakes to appoint qualified teaching, Non-teaching and supporting staff as prescribed by the university and the Government of AP and pay salary as recommended by the state government.

Yes  No

11. Whether the trust /society agrees to undertake to collect tuition fees and other Fees only at the rates prescribed by government /university from time to time.

Yes  No

12. Whether the trust / society agreeing to admit students as per guidelines Prescribed by the government /university from time to time

Yes  No

13. Whether the trust / society agrees to undertake not to collect capitation Fee or donation from the students or parents

Yes  No

#### 14. APPLICATION FEE AND REGISTRATION FEE

Application fee Degree course (each)	: Rs. 1,00,000/- (Rupees one lakh only)
Registration fee	: Rs. 50,000/- (Rupees fifty thousand only)

Application fee and registration fee to be paid in the form of Demand Draft drawn in favour of “**The Comptroller, ANGRAU**” payable at Guntur.

#### 15. Details of Application Fee Remitted:

Demand draft	Date	Name of the bank	Amount (Rs.)

#### 16. Details of registration Fee Remitted:

Demand draft	Date	Name of the bank	Amount (Rs.)

#### 17. Details of General Amenities:

S.No.	Amenities	Norms (Annexure VII)	Available/Not Available
a	Associate Dean room		
b	Office room		
c	Faculty room		
d	Black board (glass)		
e	Lighting		
f	Fan		
g	Toilets (separate for boys/ girls)		
h	Drinking water		
i	All weather approach road (length)		
j	Canteen		
k	Parking facilities		
l	Medical facilities		

m	Telephone facilities		
n	Rain water harvesting		
o	Transport facilities		
p	Reprographic facility		
q	Barrier free environment for differently abled persons		

## Annexure II

The details of fee payable (*NONREFUNDABLE*) to the University for affiliation are furnished below.

S. No	Details of the fee payable	Amount (Rs.)	Remarks
1	Registration fee for each degree program	Rs. 50,000 /- (Rupees fifty thousand only)	To be paid along with the application
2	Application fee for each UG degree program	Rs.1,00,000/- (Rupees one lakh only)	

Note: All the fees to be paid in the form of Demand Draft drawn in favor of **The Comptroller, ANGRAU**, payable at Guntur.

## **Annexure III**

### **Documents to be submitted along with application**

1. Registration of the society/trust along with details of constitution and Memorandum of Association
2. Letter from the Competent authority designated by the Government concerned for classification of land and its location as Metropolitan or other areas
3. Land Use Certificate from the Competent Authority designated by the Government concerned.
4. Registered land documents in the name of the applicant (Society / Trust) along with the EC for a period of 30 years.
5. Building plan of the proposed college prepared by a registered architect and approved by the competent authority designated by the Government.
6. Registered documents by the registered Trust/Society earmarking land and buildings for the proposed college and is for EDUCATIONAL PURPOSE.
7. Details of the latest fund position along with the photocopies of relevant bank accounts including the evidence of the corpus fund earmarked for the purpose.
8. Detailed Project Report giving background of the society/trust (Including experience in agriculture, operating Educational Institutes preferably in Agricultural field, Profile of promoters), Development plan for the college with timeline, Architectural master plan indicating the land use, Policy with regard to faculty recruitment, structure of the academic and administrative Governance, sources of financing of capital and operating expenditure and resource projections and their utilization schedule.
9. Topographical sketch of the land in village map with survey numbers duly colored along with surrounding area with survey numbers signed by the Tahsildar to show that the lands are contiguous and in one block. College land should be coloured different in the sketch.
10. Clearance certificate from the Government for holding excess land by the Trust/Society.

## **Annexure IV**

### **Evaluation Procedure for Affiliation**

#### **Phase - I**

The application will be evaluated in terms of norms, guidelines and requirements. Those applications which do not satisfy all the criteria (Appendix – I) will not be accepted and considered for the next phase of evaluation by the Committee constituted by the ANGRAU.

#### **Phase – II**

The Committee constituted by the ANGRAU will visit the Institution and inspect the site, amenities and other infrastructural facilities. The Committee will submit a report to the University.

#### **Phase – III**

Based on the Committee recommendations, further processing will be undertaken for granting temporary affiliation subject to permission by the Government for the colleges.

**These Private Agricultural Colleges shall be closely monitored by the Committee constituted by the ANGRAU from time to time. Any deficiencies and irregularities will lead to immediate cancellation of the affiliation.**



## Annexure V

### Committee Inspection Fee (*NONREFUNDABLE*)

1	Fee for the first and the second visit of the Committee (constituted by the ANGRAU)	Rs.1,00,000/- (Rupees one lakh only)	Before the visit of the Committee
2	Fee for each additional visit (re-inspection) by the Committee (constituted by the ANGRAU)	Rs.1,00,000/- (Rupees one lakh only)	Before the visit of the Committee

Note: All the fees to be paid in the form of Demand Draft drawn in favor of  
**The Comptroller, ANGRAU**, payable at Guntur.

## **Annexure VI**

### **CERTIFICATES**

1. Legal opinion from legal expert not below the rank of the Government Pleader on the ownership of Land and extent of coverage is to be enclosed.
2. Resolution for starting the new agricultural college (indicating the name of the college specifically) and Agreement signed in Rs.20/- (Rupees Twenty only) stamped paper by all the trustees /members.
3. Details of names of the trust/society members, their occupation, age and residential address, phone no., fax, email etc.
4. A certificate permitting conversion of wetland to other use and vice-versa i.e., for educational use, etc. by competent authority.

Certificates for the following should be given after the completion of infrastructure.

- i) Fire/boiler/electrical safety from the competent authorities.
- ii) No objection certificate from traffic/transport point of view by the concerned authority
- iii) College buildings being constructed in the land owned by the trust/society permanently
- iv) Building and equipment insurance.
- v) Clearance from Health Inspector.
- vi) Structural stability of the building from public works department (PWD) not below the rank of superintending engineer.
- vii) No objection certificate from pollution control board (from concerned authority) for disposal of laboratory waste.
- viii) Photographs of the agricultural college (especially showing the name of the college and mobility facilities for the differently abled).

## Annexure – VII

### Specifications for staff and infrastructure for running B.Sc (Ag) Course

#### I. Staff requirement

##### i. Teaching Staff:

S.No	Department / Name of the Post	Total	Requirement in the First Year
<b>I.</b>	<b>DEPARTMENT OF CROP MANAGEMENT</b>		
<b>Agronomy</b>			
	Professor	1	1
	Associate Professor	1	
	Assistant Professor	2	1
	<b>Soil Science and Agricultural Chemistry</b>		
	Associate Professor	1	
	Assistant Professor	2	1
	<b>Crop Physiology</b>		
	Assistant Professor	2	-
	<b>Agricultural Microbiology</b>		
	Assistant Professor	1	1
	Total	10	
<b>II.</b>	<b>DEPARTMENT OF CROP IMPROVEMENT</b>		
	<b>Plant Breeding and Genetics</b>		
	Professor	1	1
	Assistant Professor	2	
	<b>Seed Science and Technology</b>		
	Associate Professor	1	
	<b>Agriculture Bio-Technology</b>		
	Assistant Professor	1	
	Total	5	
<b>III.</b>	<b>DEPARTMENT OF CROP PROTECTION</b>		
	<b>Agricultural Entomology</b>		
	Professor	1	1
	Assistant Professor	2	

<b>Plant Pathology</b>			
	Associate Professor	1	1
	Assistant Professor	3	
	Total	7	
<b>IV.</b>	<b>DEPARTMENT OF SOCIAL SCIENCES</b>		
<b>Agricultural Extension</b>			
	Associate Professor	1	1
	Assistant Professor	1	
<b>Agricultural Economics</b>			
	Professor	1	
	Assistant Professor	1	1
<b>Humanities, Physical Sciences and Computer Science</b>			
	Assistant Professor	1	1
	Total	5	
<b>V.</b>	<b>DEPARTMENT OF HORTICULTURE</b>		
	Assistant Professor (Floriculture, Vegetable, Fruits, Medicinal Plants and Spices, Food Science and Nutrition)	2	1
	Total	2	
<b>VI.</b>	<b>DEPARTMENT OF AGRICULTURAL ENGINEERING</b>		
	Assistant Professor ( Farm Machinery , Soil& Water Conservation, Bio-energy, Food Process Engineering)	2	1
	Total	2	
		31	12

- At least the staff indicated, as above, as required in the first year, in each department should be appointed at the start of the degree programme to offer I year courses.
- The staff strength should comply the requirements prescribed at the end of the III year
- Faculty wise staff should be available to handle all the courses year wise.

## ii. NON-TEACHING STAFF

S.No	Divisions/Department Lab Field Total	Assis- tant*	Lab Asst	Field Asst	Total	Requirement in the First Year
1.	Agronomy + (Agro-forestry)	1	1	2	4	2
2.	Agricultural Economics + (Basic Economics, Maths & Computer Science and Statistics)	1	-	-	1	1
3.	Agriculture Extension & Communication + (Sociology and Psychology, English)	1	-	-	1	1
4.	Entomology	1	1	1	3	1
5.	Genetics & Plant Breeding + (Seed Science & Technology)	1	2	1	4	2
6.	Horticulture + (Food Science & Technology)	1	1	-	2	1
7.	Soil Science and Agricultural Chemistry + (Microbiology, Agro- meteorology)	1	2	1	4	1
8.	Plant Pathology including Virology and Nematology	1	1	1	3	1
9.	Agriculture Engineering + (Farm Management)	1	1	1	3	1
10.	Biochemistry and Crop Physiology (Environmental Sciences)	1	1	1	3	1
	<b>Total</b>	<b>10</b>	<b>10</b>	<b>08</b>	<b>28</b>	<b>12</b>

\*Assistant should have competence to handle accounts and stores by utilizing computer.

Sl.No	Name of the Post	No. of Posts	Requirement in the First Year
A. Establishment			
1.	P.A./P.S.to Dean	01	01
2.	Assistant Administrative Officer	01	01
3.	Assistant Account Officer	01	01
4.	Assistant	01	01
5.	Driver	01	01

<b>B. Library Staff</b>			
1.	Assistant Librarian	01	01
2.	Library Assistant/ Clerk	02	01
<b>C. Hostel Staff</b>			
1.	Warden (To be nominated from amongst faculty)	02+02	01+01
2.	Care Taker/ Assistant	02+02	01+01
<b>D. Students Health Centre</b>			
1.	Doctor	01	01
2.	Nurse	01	01
<b>E. Estate Branch</b>			
1.	Junior Engineers (Civil and Electrical)	02	01
2.	Security Officer	01	01

## II. INFRASTRUCTURE REQUIREMENT

### i. BUILDINGS

Building should have adequate facilities of light, ventilation and toilets by keeping in view of the norms laid down by the Indian standards institution or the local authority.

S. No.	Details	No. of Rooms	Dimensions (in ft)	Requirement in the First Year
1	Associate Dean's room	1	20 x 24	1
2	P.A. Room	1	10 x 12	1
3	Committee room with video conference facility	1	10 x 12	
4	Assistant administrative officer including staff	1	20 x 30	1
5	Assistant accounts officer including staff	1	20 x 12	1
6	Assistant academic officer including staff	1	20 x 12	1
7	Exam hall (300 capacity)	1	100 x 50	1
8	Evaluation room	1	20 x 36	
9	Faculty room (ladies)	1	10 x 12	1
10	Faculty room (gents)	1	20 x 12	1
11	Placement cell	1	20 x 12	
12	Smart lecture halls (60 capacity)	6	40 x 30	2
13	Auditorium	1	100 x 60	

14	Library	1	30 × 72	1
15	Common utility room	1	20 × 36	
16	Central laboratory	1	50 × 36	1
17	Hostels including mess, gym/indoor, reading room, warden room, store etc.	2 Boys/ room	To accommodate 250 students	To accommodate 40 students
		2 girls/ room	To accommodate 250 students	To accommodate 40 students
18	Canteen	1	20 × 12 (kitchen with store)	
			20 × 36 sitting	
19	Wash room (with toilet and urinary facilities)	10	20 × 12 (keep ladies requirements)	04
20	Parking space		As per requirement	
21	Farm stores, threshing yards including implements and tractor sheds	One core complex		
22	Vehicles shed	1	10 × 80	

### DEPARTMENTS – Requirements

S. No	Details	No. of Rooms	Dimensions ( in ft )	Requirement in the First Year
1	HoD's Office	10	24 × 12 with wash room facility	05
2	Faculty rooms 1+1	12	18 × 12 24 × 10 Depending on the strength of each dept.	05
3	Clerical/ Technical staff	10	24 × 10 Depending on the strength of each dept.	02
4	Laboratories	15	30 × 60 larger department will have two	04

5	Field / lab stores 1. Agronomy 2. Genetics and Plant Breeding 3. Soil Science 4. Horticulture 5. Pesticides and Chemicals	5	More store rooms may be added as per requirement	02
6	Green house/ Poly house/ Nursery facilities ( Horticulture department)		Mist chamber – 30 × 10 Shade net house – 40 × 15 Poly Greenhouse – 30 × 30 Nursery area – ½ acre	

## ii. INTERNAL ROADS

All the buildings in premises should be connected with well-laid all weather roads. Adequate space should be provided on either side of the road for future expansion.

## iii. GENERAL AMENITIES:

- i. **Light:** Adequate lighting should be provided in the building and on the roads.
- ii. **Fans:** Sufficient fans are to be provided in the rooms
- iii. **Toilets:** Separate toilets for boys and girls in all the buildings (there may be a provision for the transgender)
- iv. **Drinking Water:** Availability of drinking water in all the buildings
- v. **Canteen:** A well stocked canteen
- vi. **Parking facilities**
- vii. **Fully Equipped Dispensary:** Fully equipped medical facility
- viii. **Telephone Facilities:** Telephone facilities at wantage points.
- ix. **Wi-Fi internet facility**
- x. **Transport Facilities** (for Field Visit/ Educational Tour)
- xi. **Reprographic facility**
- xii. **Special facilities** for physically challenged

## iv. LIBRARY

1. The library should be well equipped and spacious. Multiple copies of text books in each subject should be available. It shall not stock notes, examination guides or keys of any kind. In the selection of books, norms or guidelines provided by ANGRAU should be followed and purchases should be made in consultation with the subject teachers.



2. The college should subscribe to sufficient number of newspapers and magazines. At least 25 journals suitable for students and professional needs of teachers should be subscribed.
3. The library shall not contain any book or other forms of literature that espouse or propagate communal disharmony or casteism or discrimination based on religion, regions or language, etc.

#### v. LAB FACILITIES

The laboratory equipment should be in accordance with the norms adopted by the University.

##### 1. Agronomy inclusive of Agroforestry

Sl. No	Details	Requirements	Requirement in First Year
1	Crop cafeteria	½ acre land Small implements like Spade, Hoe etc.	½ acre land Small implements like Spade, Hoe etc.
2	Museum for identification of seeds, fertilizers, weeds, commonly used agro-chemical and medicinal and aromatic plants etc.	Storage bottle Herbarium posting material	Storage bottle Herbarium posting material
3	Field for establishment of demonstration plots in various good agricultural practices	Small equipments/implements	Small equipments/implements
4	Gadgets for irrigation water measurement, bulk density etc.		
5	Equipments		
	i. Hot Air Oven	2	2
	ii. Moisture Box	30	15
	iii. Moisture Meter	5	2
	iv. Tube Auger	10	5
	v. Bucket Auger	10	5
	vi. Seed Germinator	1	1
	vii. Conductivity Meter	2	2
	viii. Water Bath	1	1
	ix. Shaker	1	1
	x. Chlorophyll Meter	1	1
	xi. Drip And Sprinkler System	1	1

	xii.Sprayer	3	2
	xiii. Weighing Balance ( Electronic 1gm)	3	1
	xiv.Spring Balance 50 Kg	5	2
	xv Spring Balance 10 kg	5	2
	xvi Top pan Balance 1 kg Capacity	5	2
	xvii Top pan Balance 2 kg capacity	5	2
	xviii Meter Scale	10	5
	xix Tape	5	2
	xx Brix meter	2	1
	xxi pH meter	1	1
	xxii Nitrogen analysis digestion unit	1	1
	xxiii Grinding machine	1	1
	xxiii Shaking machine	1	1
	xxv Soil thermometer	1	1
	xxvi Automatic nitrogen analyzer	1	1
	xxvii Water measuring devices (Parshall Flume, Rectangular Weir, V notch, Trapezoidal weir)	1 each	1
	xxviii Grinding machine	1	1

## 2. Agricultural Economics inclusive of basic economics, Mathematics & Computer Science and Statistics

Sl.No	Details	Requirements	Requirement in First Year
1.	Computers	15	06
2.	Camera	1	1
3.	Software	As per requirement	As per requirement

## 3 Agriculture Extension & Communication inclusive of sociology and Psychology, English

### Audio – Visual Lab

Sl. No.	Details	Requirements	Requirement in First Year
1.	LCD projector	1	1

2.	Camera (SLR) with zoom, Wide-angle, tele -photo lens (digital)	1	1
3.	Video camera with tripod, lighting accessories and editing facility	1	1
4.	Computer (workstation)with editing softwares	1	1
5.	Digital voice recorders	5	2
6.	Audio recording-mixing consoles	1	1
7	Computation softwares for statistics	1	
8.	Public Address system	1	

#### 4. Entomology

Sl.No	Details	Requirements	Requirement in First Year
1.	Binocular Microscope	10	05
2.	Insect Box	60	30
3.	Insect Collection Nets	60	30
4	Collection Bottles	60	30
5.	Insect collection Big Boxes for Museum (1 for each order)	29	15
6.	Insecticide Containers for showing students/ Representative for each group/formulation	As per requirement	As per requirement
7	Stereomicroscope	1	1
8	Electronic balance	1	
9	Soxhlet extraction apparatus	1	1
10	Bee keeping equipment	1 set	1
11	Oven	1	1
12	Potters tower	1	1
13	Light traps	1 set	1
14	Fumigation chamber	1	1
15	Slides/cover slips	As per requirement	As per requirement
16	PH meter	1	1
17	Computer with printer	1 set	
18	Simple microscope	35	15

19	Camera lucida	1	
20	Needles, forceps, scissor, hair brushes and lens	30 sets each	15 sets each
21	Colour transparencies of different body parts	1 set	1 set
22	Types of sprayers		
	a. power operated	1	1
	b. hand operated	1	1
23	Different types of dusters	1	1
24	Different types of charts	1	1
25	Display showcases	2	1
26	Entomological pins pack	1	1
27	Insect rearing cages	1	1
28	Laboratory chemicals acetone, chloroform, formaldehyde, sodium and potassium chloride	On the basis of requirement	On the basis of requirement

### 5. Genetics & Plant Breeding

Sl.No	Details	Requirements	Requirement in First Year
1.	Microscope	30	15
2.	Binocular microscope	10	5
3.	Electronic moisture meter	2	1
S	Electronic balance	2	1
5.	Seed germinator	2	1
6.	Automatic seed/grain counter	1	1
7	Hot air oven	1	1
8	Camera Lucida	1	1
9	Charts/models/lamination	1/each	1/each
10	Compound microscope	1	1
11	Electrophoresis apparatus with centrifuge	1	1
12	Heating mantel	1	1
13	Hot plates	1 set	1 set
14	Incubator	1	1
15	Lux meter	1	1
16	Magnetic stirrer	1	1
17	Moisture meter	1	1
18	Mono pan balance	1	1
19	Purity analysis table	2	1

20	Refrigerator	1	1
21	Sample divide	1	1
22	Seed counter	2	1
23	Tissue culture unit	1	1
24	Top pan balance	2	1
25	Water bath	1	1

### 6. Biotechnology

Sl.No	Details	Requirements	Requirement in First Year
1.	Weighing balance (accuracy 0.01 g)	1	1
2.	Weighing balance (accuracy 0.001 g)	1	1
3.	pH meters	2	1
S	Micro pipettes	20 sets	10 sets
5.	Vortex mixture	2	1
6.	Horizontal gel electrophoresis units	4	2
7	vertical gel electrophoresis units	2	1
8	Gel documentation system	1	1
9	Microwave oven	1	1
10	Micro centrifuge	1	1
11	Compound microscope	10	5
12	Stereo zoom microscope	4	2
13	Water bath	1	1
14	Centrifuge	2	1
15	Refrigerated centrifuge	2	1
16	PCR machine	1	1
17	Laminar air flow chamber	4	2
18	Mini coolers	5	3
19	Table top shakers	1	1
20	Incubators	1	1
21	Incubator shakers	2	1
22	Magnetic stirrer with hot plate	2	1
23	Spectrophotometer (UV-Vis)	1	1
24	Water purification unit	1	1
25	Autoclave	2	1
26	Refrigerator	2	1

## 7. Seed Science and Technology

S. No.	Equipment	Requirements	Requirement in First Year
1	Hot air oven	1	1
2	Digital seed moisture meter	1	1
3	Seed germinator	1	1
4	Seed dividers	2	1
5	Seed driers	2	1
6	Seed counter	2	1
7	Illuminated purity work board	3	1
8	Sieves	3	2
9	Dissection microscopes	30	10
10	Advanced microscopes	5	2
11	BOD incubator	1	1
12	Electronic balance	1	1
13	Accelerated ageing chamber	1	1
14	EC meter	1	1
15	pH meter	2	1
16	Distillation unit	1	1

## 8. Horticulture

S. No.	Equipment	Requirements	Requirement in First Year
1	Hand Refractometer	5	2
2	Digital Refractometer	2	1
3	Oven	1	1
4	Refrigerator	1	1
5	Electronic Weighing Balance	2	1
6	Top Pan Balance (1 kg & 10 kg capacity each)	2	1
7	Deep freezer	1	1
8	P <sup>H</sup> meter	2	1
9	Fruit crusher	1	1
10	Grinding and Mixing Machine	1	1
11	Distillation Assembly	1	1
12	Dibbler	16	10
13	Digging fork	2	1
14	Garden fork	2	2
15	Hand cultivator	2	1
16	Crow bar	2	1

17	Pruning knife	2	1
18	Lawn sprinkler	1	1
19	Iron Plough	1	1
20	Poly house	1	1
21	Drip Irrigation unit	1	1
22	Seed Germinator	2	1
23	Grafting and budding knife	60	20
24	Secateurs	60	20
25	Saw	5	1
26	Loppers	5	2
27	Mist Chamber	1	2
28	Poly house with drip irrigation system	2	1
29	Research Microscope	2	1

### 9. Food Science and Technology

S. No.	Equipment	Requirements	Requirement in First Year
1	Refrigerator	1	
2	Muffle furnace	1	1
3	Weighing balance	2	1
4	Water bath	2	
5	Hot air oven	2	1
6	Fruit penetrometer	2	1
7	Pulper	1	1
8	Juicer extractor	1	1
9	Crown corking machine	1	1
10	Spectrophotometer	1	
11	Microwave oven	1	1
12	Baking oven	1	1
13	Sieve shaker	1	1
14	Poly pouch sealer	1	1
15	Crusher	1	1
16	Masala grinder	1	1
17	Dehydrator	1	
18	Cold room	1	
19	Vaccum pump	1	1

## 10. Microbiology

### A. Instruments:

S. No.	Instrument	Quantity required	Requirement in First Year
1	Autoclave	2	1
2	Hot air oven	1	
3	Laminar air flow chamber	2	1
4	Incubators	2 (37 <sup>o</sup> C & 5 <sup>o</sup> C – 50 <sup>o</sup> C)	1
5	Refrigerators	1	
6	Centrifuge	2	1
7	Refrigerated centrifuge	1	1
8	Student microscope	30 + 5 (spare)	10
9	Phase contrast microscope	1	1
10	Fluorescent microscope	1	1
11	Stereo zoom microscope	1	1
12	spectrophotometer	1	
13	Weighing balance (1 mg)	2	1
14	P <sup>H</sup> meter	2	1
15	Incubator shaker	1	1
16	Plant growth chambers	1	1
17	Gas chromatography	1	1
18	Fermenter	1	
19	Colony counter	2	1
20	Magnetic stirrer	1	1

**\* Maintaining 30 students per batch is essential for effective practical**

### B. Glasswares and Consumables:

S. No.	Specifications	Size	Numbers	Requirement in First Year
1	<b>Basic Glasswares:</b>			
	Petri dish	100 ml	100	50
		200 ml	100	50



	Test tubes	18 mm	1000	500
		15 mm	1000	500
	Boiling tube		50	25
	Conical flask of all volumes	100 ml	100	50
		250 ml	100	50
		500 ml	50	25
		1000 ml	25	10
	Measuring cylinders	100 ml	10	5
		10 ml	10	5
		25 ml	10	5
		50 ml	10	5
		250 ml	10	5
		500 ml	10	5
		1000 ml	2	1
	Racks	200		100
	Screw cap tubes for culture storage	200		100
2	Micropipettes (10-100; 100-1000 $\mu$ l)	5 each	100 tips each	50 tips each
3	Standard burettes;		30	15
	Volumetric flasks,	25 ml	50	25
		50 ml	25	20
		100 ml	25	20
		250 ml	10	10
		500 ml	10	10
		1000 ml	5	2
	Screw cap test tubes	10 ml	200	100
	Schott Duran bottles	100 ml	50	25
		250 ml	50	25
		500 ml	15	10
		1000 ml	10	5
4	Large volume round bottom flasks, flasks for fermentations	1000 ml	5	3
		2000 ml	5	3
5	Glass slides,		400	200
	Cover slips,		1000	500
	Tissues, straining kits, standard cultures for observation ( <i>E. coli</i> , <i>Bacillus</i> , <i>Yeast</i> , <i>Fungal</i> cultures etc.)		2 sets each	1 set each

6	Cotton (Abs & non-abs), tissue papers, whatman filter papers, membrane filters with holders	Sufficient quantity	Sufficient quantity
7	Spirit lamps / Bunsen burners	5	5
	Inoculation needles	40	15
	Spread rods	50	20
	Cork borers	All sizes	All sizes
8	All essential chemicals and media	Sufficient quantities	Sufficient quantities
9	Stage micrometer	10	5
10	Ocular micrometer	40	10

### 11. Soil Science and Agricultural Chemistry

The requirements for handling the soil science courses in the Undergraduate Programme for a batch of 30 students – A laboratory with 5 tables accommodating six students per table.

S. No.	Instruments and Equipment	Numbers	Requirement in First Year
1	pH meter	3	2
2	EC meter	3	2
3	Flame photometer	1	1
4	Spectrophotometer	1	1
5	Tensiometer	1	1
6	Hand held Refractometer	1	1
7	GM counter	1	1
8	Atomic absorption spectrophotometer	1	1
9	Electronic balance – 2 digit	1	1
10	Electronic balance – 3digit	1	1
11	Distilled water unit	1	1
12	Double distilled water unit	1	1
13	Double ring Infiltrometer	1	1
14	Pressure plate apparatus	1	1
15	Hot air oven	1	1
16	Hot plate	2	1
17	Kjeldahl digestion unit	1	1
18	Magnetic stirrer	1	1
19	Mechanical shaker	1	1
20	Mechanical stirrer	1	1
21	Muffle furnace	1	1
22	Sand bath	2	1

23	Water bath	2	1
24	Wiley mill	1	1
25	Centrifuge	1	1
26	Stabilizer	5	3
27	Augers	1	1
	a) Post hole augers	1	1
	b) American soil sampler	1	1
	c) Layalpur taper auger	1	1
	d) Screw augers	2	1
	e) Core sampler	2	1
28	Micro-Kjeldhal distillation Unit(12 Flask)	1	1
29	Micro-Kjeldhal distillation Unit for plant	1	1
30	Soxlet apparatus	1	1

### B. Apparatus

S. No.	Apparatus	Numbers	Requirement in First Year
1	Burette stand	35	20
2	Filter stand	35	20
3	Heating mantle	5(1 per table for 5 tables)	5(1 per table for 5 tables)
4	Hydraulic conductivity head with tubes	2 sets with 6 sample provision	2 sets with 6 sample provision
5	Nitrogen distillation assembly	35 Nos. of single units	35 Nos. of single units
6	Pipette stand	5(1 per table for 5 tables)	5(1 per table for 5 tables)
7	Sieves(different sizes)	2 mm-2 Nos,0.5 mm-2 Nos,0.2 mm – 2 No's	2 mm-2 Nos,0.5 mm-2 Nos,0.2 mm – 2 No's
8	Test tube stand	5(1 per table for 5 tables)	5(1 per table for 5 tables)
9	Tripod stand	35	20
10	Vacuum cum filter pump	1	1
11	10Xlens	15	10
12	Clay pipe triangles	35	20
13	Core sampler	2	1
14	Robinson pipette stand	1	1

15	Spatula	35	20
16	Test tube holder	35	20
17	Tongs	35	20
18	Wire gauge	50	20
19	Rubber corks(Assorted sizes)	50 No's in each size	50 No's in each size
20	Rubber tubes to connect condensers and distillation flasks	20 meters	20 meters
21	Bunsen burner	35	15
22	Aluminum cans	35	15
23	Stop clock	5(1 per table for 5 tables)	5(1 per table for 5 tables)
24	Polythene/ Plastic funnels	50	25
25	Polythene beakers 100 ml	50	25

### C. Glassware

S. No.	Glassware	Numbers	Requirement in First Year
1	All glass wash bottles	10	05
2	Polythene wash/ squeeze bottles	50	20
3	Auto pipette	5(1 per table for 5 tables)	5(1 per table for 5 tables)
4	Buckner funnel	2 No's in each of 10 cm and 15 cm	2 No's in each of 10 cm and 15 cm
5	Burettes	35	20
6	Conical Flasks-100 ml	100	50
7	Conical Flasks-250 ml	50	25
8	Desiccator	5(1 per table for 5 tables)	5(1 per table for 5 tables)
9	Dropping bottle	10	5
10	Filter flask 1000ml 2000ml	1 1	1
11	Glass Beakers different size	Sufficient numbers	Sufficient numbers
12	Glass Funnels different size	Sufficient numbers	Sufficient numbers
13	Glass rod	100	50
14	Glass tube (7 mm)	100	50
15	Graduated pipettes-different volumes	Sufficient numbers	Sufficient numbers

16	Robinson pipette	2	2
17	Iodine flask	35	20
18	Kjeldahl flask	15	10
19	Measuring cylinders-different volumes	Sufficient numbers	Sufficient numbers
20	Measuring cylinders with stopper – 100 ml	35	20
21	Micropipettes -100 – 100 ml	1	1
22	Pipettes various size	Sufficient numbers	Sufficient numbers
23	Reagent bottles 250 ml, 500 ml, 1000 ml, 2000 ml, 5000 ml, 10 lit	10 numbers each	5 numbers each
24	Water condenser	5	3
25	Reflux condenser	35	20
26	Separating funnel	5	5
27	Volumetric flasks – different volumes	Sufficient numbers	Sufficient numbers
28	Vials with screw cap	100	50

#### D.Tools and others

S.No	Tools and others	Numbers	Requirement in First Year
1	Iron pan	2	2
2	Khurpi	2	2
3	Munshellcolour chart	1	1
4	Safety symbols and posters	As required	As required
5	Spade	2	2
6	Topo sheets, cadastral maps and False colour composites	3 in each	3 in each
7	Tube auger	2	2
8	Wooden mallet	3	3
9	Moisture bottle	35	20
10	Pestle and mortar	5	5
11	Polythene shaking bottles	100	50
12	Porcelain basins	35	20
13	Porcelain tiles	35	20
14	Silica basin and crucibles	35 in each	20 in each

## 12. Plant Pathology

1.	Compound Microscope with photo display arrangement	3	1
2.	Stereo binocular microscope	5	3
3.	Sample processing Board (Dry preservation of samples)	4	2
4.	Wet preservation Jars	50	20
5.	Autoclave	2	1
6.	Oven	1	1
7.	Deep Freeze	1	1
8.	Centrifuge (3000 rpm)	1	1
9.	Refrigerator	1	1
10.	Water bath	2	1
11.	Electronic balance	2	1
12.	Microscope (compound)	30	10
13.	Weighing machine	1	1
14.	Incubator	2	1
15.	Ocular meter	5	2
16.	Stage Micrometer	5	2
17.	Camera Lucida	5	2
18.	Colony Counter	1	1
19.	Humidifier	1	1

## 13. Agricultural Engineering inclusive of Farm Management

1.	Working models of MB plough, Disk plough and indigenous plough	2 sets each	1 sets each
2.	Working model of different harrows	6	3
3.	Seed drill	4	2
4.	Different types of threshing drums	6	3
5.	Working models of reaper and mowers	4	2
6.	Different types of sprayers and dusters	8	4
7.	Cut model of CI & SI engine	2	2
8.	Cut model of Tractor	1	1
9.	Abani level	2	2
10.	Arrow and pegs	3	3
11.	Bell conveynor (model)	1	1
12.	brass metal sieves	1	1
13.	Brass metal sieves (set of all sizes)	1	1
14.	Bucket elevator (model)	1	1
15.	Centriguge with 8 tube facility	1	1

16.	Chains (20 metre, 30 metre, Engineers, Guntur Revenue 3 each)	4	4
17.	Cleaning cum grinding machine (model)	1	1
18.	Clinometers	5	3
19.	Cross staff (open, Octangle, Adjustable 5 each)	4	2
20.	Digital testing kit	1 set	1 set
21.	Drainage equipment (12 flask unit)	1 set	1 set
22.	Drawing boards	1	1
23.	Dumpy level with stand	2	2
24.	Electrical magnetic stirrer	1	1
25.	Glassware washing unit with 3 trays	1	1
26.	Hand level	1	1
27.	Heating metal with six flask facility	1	1
28.	Horizontal shaker	1	1
29.	Hot platters with 8 tube facility	1	1
30.	Hydraulic conductivity meter	1	1
31.	Infiltrometer	1	1
32.	Infrared moisture meter	1	1
33.	Installation of LPG gas system in Laboratories with cylinders, stoves, burners and fitting	1 set	1 set
34.	Level staff (4 m folding)	2	2
35.	Mashel plant colour chart	1 set	1 set
36.	Mashel soil colour chart	1 set	1 set
37.	Mechanical sieve shaker with set of sieves	1	1
38.	Moisture meter (OSAW)	1	1
39.	Open pan evaporimeter	1	1
40.	Optical square	1	1
41.	Plane table with accessories	1	1
42.	Prismatic compass with stand	2 each	2 each
43.	Quick setting level	20 each	10 each
44.	Rain Gauge	1	1
45.	Ranging rod	1	1
46.	Sand bath (30 cm x 45 cm)	1	1
47.	Screw conveyor (model)	1	1
48.	Sieve shake for agreement analysis	1 set	1 set
49.	Soil testing kit	1 set	1 set
50.	Spiral separator ( model )	1	1
51.	Suction machine	1	1
52.	Tescometer	1	1

53	Theodolite	1 each	1 each
54	Water measuring devices	1	1

#### vi. FARM EQUIPMENT

S.No.	Particulars	Quantity	Requirement in First Year
1.	Tractors	2 Numbers with accessories	2 Numbers with accessories
2.	Power tillers	2 Numbers with accessories	2 Numbers with accessories
3.	Farm machineries	As given below	As given below

#### a) Farm machinery/ Implements

Tractor motorized plough	- Disc plough	- 2 Nos.
Tractor motorized	- Rotavator	- 2 Nos.
Tractor motorized	- Cultivator	- 2 Nos.
	- Crop Seeder	- 1 Nos.
	- Multi Crop Seeder	- 1 Nos.
Trailer 2 wheeler and 4 wheelers		- 2 Nos.
Power Weeder		2 Nos.

#### b) Farm Tools and Implements

S.No.	Equipment Required	Quantity (N0.s.)	Requirement in First Year
1.	Secateurs	30	20
2.	Grafting, Budding, Knife	30	20
3.	Spade	30	20
4.	Hand hoe	30	20
5.	Garden rake	30	20
6.	Garden fork	30	20
7.	Crow Bar	10	10
8.	Pruning Saw	10	10
9.	Sprayers (Knapsack)	5	2
10.	Power sprayers	5	2
11.	Rose can	20	10
12.	Shovel	10	5
13.	Garden shears	10	5
14.	Scythe	20	10
15.	Fruit harvester	5	5



16.	Tree pruner	10	5
17.	Iron pan	30	15
18.	Rocker sprayer	3	1
19.	Wheel barrow	5	2
20.	Hoe set	1	1
21.	Desi harrow	1	1
22.	Threshing machine	1	1
23.	Mould board plough	1	1
24.	Reversible plough	1	1
25.	Cultivator	1	1
26.	Iron ridger	1	1
27.	Leveller	1	1
28.	Dented hoe	1	1
29.	Tractor driven seed drill	1	1
30.	Knapsack spray pump	1	1
31.	Secateurs	5	5
32.	Sickles	30	30
33.	Rotavator	1	1
34.	Danthi	1	1
35.	Two bowled seed drill	1	1
36.	Power sprayer	1	1
37.	Wooden seed drill	1	1
38.	Disc plough	1	1
39.	Wooden ridger	1	1
40.	Sugarcane juice extractor	1	1
41.	Disc harrow	1	1
42.	Akola hoe	1	1
43.	Gatoor type spray pump	1	1
44.	Jowarsulphur mixed barrel	1	1
45.	Maruti foot sprayer	1	1
46.	Dompy level	1	1
47.	Farm counter maker	1	1
48.	Meesalaguntaka	1	1
49.	Winnowing machine	1	1
50.	Marker	1	1
51.	Dibbler	1	1
52.	Seed storage acrylic boxes	30	15
53.	Sprinkler irrigation Unit	1	1
54.	Drip Irrigation Unit	1	1

### **vii. FARM ANIMAL AND LIVESTOCK**

<b>S.No.</b>	<b>Animals</b>	<b>Numbers</b>	<b>Requirement in First Year</b>
1.	Work Bullock	1 pair	1 pair
2.	Cow/ Buffaloes	6	6
3.	Goat and sheep	20 each	20 each
4.	Poultry unit	100 birds	100 birds
5.	Pigs	5	5

### **viii. TRANSPORT FACILITIES**

The following vehicles should be available (minimum)

I.	Car	1
II.	Jeep/ Car for staff	1
III.	Bus	2
IV.	Pickup van	1
V.	Tractors with Trailors	2

### **ix. WATER RESOURCES**

1. Minimum water requirement is 1000 mm for 10 acres of Wetland
2. Minimum 400mm per annum water required for 70 acres of Garden Land, Orchard, Botanical Garden, Herbal Garden and Woodlot.
3. To meet water requirement of hostel, laboratory and building maintenance.
4. Drinking water

#### **Sources:**

1. Open wells
2. Bore wells
3. Farm ponds

#### **Rain water harvesting**

1. Rain water falling on building roofs to be collected and canalized to a collecting tank.
2. Suitable methods should be taken to harvest the surface run-off water in the premises.

### **x. POWER SUPPLY**

1. Minimum power required 75 KVA
2. Generator (stand by) 20 KVA (minimum)
- Total 75 KVA

**Source:**

1. Government supply : 75 KVA
2. Other sources :
  - a. Solar
  - b. Wind Energy
  - c. Bio-Gas Plant

**xi. SPORTS FACILITY**

Adequate facilities may be provided for Outdoor and Indoor games, including sports equipment.

1. Four hundred meters tract with pavilion and gallery

2. Courts :	Volley ball	- 2
	Foot Ball	- 1
	Basket Ball	- 2
	Kabbadi	- 1
	Kho-Kho	- 1
	Tennis	- 2

3. Indoor games facility

	Table tennis	- 2
	Shuttle badminton	- 2
	Gymnasium	- 2 (one each for boys and girls hostel)

## **Annexure VIII**

### **Locations and Number of Private Agricultural Colleges**

1. The locations of private agricultural colleges and the number of private colleges will be decided by the State Government.

## Appendix I

### Evaluation in phase – I

<b>S. No</b>	<b>Items</b>	<b>Remarks</b>
<b>1</b>	<b>Land (110 Ac)</b>	<b>Yes/ No</b>
<b>2</b>	<b>Whether land is registered on the name of Trust / Society</b>	<b>Yes/ No</b>
<b>3</b>	<b>Whether the land is under undisputed ownership and possession by the Society/Trust</b>	<b>Yes/No</b>
<b>4</b>	<b>Whether land is available at one or two locations</b>	<b>1/2</b>
<b>5 A</b>	<b>If it is available at two locations, whether the two bits are located within a radius of 10 km</b>	<b>Yes/ No / Not Applicable</b>
<b>5 B</b>	<b>Whether the Society has given an undertaking to provide the Bus Transport Facility for the students.</b>	<b>Yes/ No</b>
<b>6</b>	<b>Documents as per Annexure – III</b>	<b>Yes/ No</b>
<b>7</b>	<b>Building area (25% of the prescribed area)</b>	<b>Yes/ No</b>
<b>8</b>	<b>Application Fee</b>	<b>Yes / No</b>
<b>9</b>	<b>Registration Fee</b>	<b>Yes/ No</b>
<b>10</b>	<b>Bank deposits and financial statement as per the financial requirement</b>	<b>Yes/ No</b>
<b>11</b>	<b>Completely filled in application</b>	<b>Yes/ No</b>

## Appendix – II

### FEE STRUCTURE FOR PRIVATE AGRICULTURAL COLLEGES ABSTRACT

Fee amount per student			
	TOTAL FOR PRIVATE COLLEGE (A)	PAYMENT TO ANGRAU (B)	NET TOTAL FOR PRIVATE COLLEGE (A-B)
FIRST SEMESTER	Rs.1,18,390/-	Rs.3,600/- + Rs.1,100/- = Rs.4,700/-	Rs.1,13,690/-
SECOND SEMESTER	Rs.84,300/-	Rs.3,600/- + Rs.1,100/- = Rs.4,700	Rs.79,600/-
TOTAL PER YEAR	Rs.2,02,690/-	Rs.9,400/-	Rs.1,93,290/-

The total fee amount for 60 students admission for the first year  
(60 x Rs.1,93,290/-) = Rs.1,15,97,400/-

### TUITION AND OTHER FEE FOR PRIVATE AGRICULTURAL COLLEGES DETAILS

S.No	Item	Amount in Rupees
1	Online Application Registration – for General	Rs.1100/-
	for SC/ST/PH	Rs.550/-
2	Tuition Fee for all degree courses (per semester)	Rs.52,100/- (Rs.48500/- + (-)Rs.3600/-* )
3	Admission Fee (at the time of admission)	Rs.7500/-
4	Registration Fee (per semester)	Rs.4500 /-
5	Identity card (at the time of admission)	Rs.100 /-
6	Academic Regulation & Course Catalogue (at the time of admission)	Rs.1600 /-
7	Library Fee (per semester)	Rs.3800 /-
8	Laboratory Fee (per semester)	Rs.8200/-
9	Medical Fee (per semester)	Rs.1700/-
10	Inter College / Inter University Sports, Games & Cultural meet fee (per annum)	Rs.8200/-
11	Seat Cancellation fee – for General	Rs.2200/-
	for SC / ST /PH	Rs.1100/-
12	Hostel Room Rent (per semester)	Rs.3000 /-
13	College magazine and student activities (per annum)	Rs.550/-
14	Student Health Care Scheme (per annum)	Rs.240 /-

15	Student Welfare Fund (only at the time of admission)	Rs.150/-
16	Study Tour (per annum)	Rs.500/-
17	Alumni Fund (in the final semester of study)	Rs.450/-
18	Sports & games fee (per semester)	Rs.2500/-
19	Examination Fee including stationary (per semester)	Rs.5000/- ((-)Rs.1100/-*)
20	Hostel establishment charges (per semester / head)	Rs.6000/-
	<b>OTHER FEE (REFUNDABLE)</b>	
21	Laboratory Deposit (at the time of admission)	Rs.1000/-
22	Library Deposit (at the time of admission)	Rs.1000/-
23	Hostel Deposit (at the time of admission)	Rs.3500/-
24	Mess Deposit (at the time of admission)	Rs.3500/-

\* The amount to be paid to ANGRAU