



## ABSTRACT

Higher Education – Perunthalaivar Kamarajar College Development Scheme - Budget Announcement for the year 2022-23 – Guidelines for implementing the scheme and accord administrative sanction for a sum of Rs.1000.00 crore towards creation of the infrastructure namely construction of academic building, library, administrative block, workshop, toilet blocks, hostels, sports facilities, major repair / renovation works, procurement of machineries and laboratory equipments to the Government Engineering Colleges, Government Arts and Science Colleges and Government Polytechnic Colleges- Orders –Issued.

---

### Higher Education(B1) Department

G.O.(Ms).No.156

Dated: 12.08.2022

சுபகிருது வருடம், ஆடி-27

திருவள்ளூர் ஆண்டு-2053

Read:

1. Announcement made by the Hon'ble Minister for Finance and HRM on 18.03.2022.
2. From the Commissioner of Technical Education Letter No . 20755 / H3 / 2022, dated : 07-06-2022.

-----

### Order:-

During the Budget Speech 2022-23, the Hon'ble Minister for Finance and HRM has made the following announcement:

அரசு பலவகை தொழில்நுட்பக் கல்லூரிகள் மற்றும் அரசு கல்லூரிகளில் உட்கட்டமைப்பை மேம்படுத்தும் பொருட்டு ஒரு சிறப்புத் திட்டத்தை உருவாக்கி, அடுத்த ஐந்து ஆண்டுகளில் 1,000 கோடி ரூபாய் செலவில், புதிய வகுப்பறைகள், விடுதிகள், ஆய்வகங்கள், திறன்மிகு வகுப்பறைகள் உருவாக்கப்படும். இதற்காக, இவ்வாண்டு 250 கோடி ரூபாய் வழங்கப்பட்டுள்ளது.

2. In order to implement the above Announcement, in the letter second read above, the Commissioner of Technical Education has furnished the details and Guidelines for implementing the Perunthalaivar Kamarajar College Development Scheme to construct additional academic building, library, administrative block,

workshop, toilet blocks, hostels, sports facilities, major repair / renovation works, procurement of machineries and laboratory equipments to the Government Engineering Colleges, Government Arts and Science Colleges and Government Polytechnic Colleges.

3. Government after careful examination, have decided to accept and issue the Guidelines annexed to this order for implementing the Perunthalaivar Kamarajar College Development Scheme for 5 years to improve the Infrastructure in Government Engineering Colleges, Government Arts and Science Colleges and Government Polytechnic Colleges.

**Objectives and Salient Features of the Perunthalaivar Kamarajar College Development Scheme -**

- a) The objective of the Scheme is to improve the infrastructure and basic facilities, for the consolidation of existing infrastructure and for modernizing libraries, laboratories and workshops in tune with the syllabus and the needs of the society as well as industry, in all Government Arts and Sciences Colleges, Government Engineering Colleges and Government Polytechnic Colleges. Simply, to create a holistic conducive barrier-free learning atmosphere in tune with the changing times.
- b) This Special Scheme will cover all the Government Engineering Colleges, Government Arts and Science Colleges and Government Polytechnic Colleges.
- c) Only works which result in creation of assets or substantial expansion of the life of existing assets (such as major repairs) will be undertaken under the Special Scheme. Academic buildings, class rooms including smart class, library, workshops & labs, toilets, hostels, procurement of machineries & equipment, water supply & toilets and sports facilities shall only be allowed.

4. Government have also constituted State Level Monitoring Committee comprising of Principal Secretary (Higher Education Department), Additional Chief Secretary( Finance Department) or his nominee, Commissioner of Technical Education, DOTE (shall also act as Member Secretary), Director of Collegiate Education, Chief Engineer, PWD Technical wing for monitoring of the special scheme and to do needs assessment for all Government Colleges and to suggest intra-department budget allocations for next year within the Administrative sanction for that year. Based on the actual need assessment undertaken works required will be identified.

5. Government also accord administrative sanction for a sum of Rs.1000.00 crore towards the infrastructure namely Construction of academic building, Library, Administrative block, Workshop, Toilet blocks, Hostels, Sports facilities, Major repair / renovation works, Procurement of machineries and laboratory equipments, Providing Electricity, Water supply and Campus development works etc., in Government Engineering Colleges, Government Arts and Science Colleges and Government Polytechnic Colleges.

**Budget allocations for the Special Scheme (Capital Expenditure to the tune of Rs.1,000.00 Crore for 5 Years).**

<b>Financial Year</b>	<b>2022-23</b>	<b>2023-24</b>	<b>2024-25</b>	<b>2025-26</b>	<b>2026-27</b>
Fund Allocation (in Rs.)	250 Cr	200 Cr	200 Cr	175 Cr	175 Cr

6. Government also direct the Commissioner of Technical Education to prepare web portal to unite alumni with the institutions and to channelize the CSR Funding.

7. The Commissioner of Technical Education is directed to monitor the works closely and ensure that the quality of works done is as per norms. Three stages of photographs of all works (i.e) prior, during and after completion of works is mandatory.

8. This orders issues with the concurrence of Finance Department vide its U.O.No.396- ADS-GKT / Edn-I /2022, dated.11.8.2022.

(BY ORDER OF THE GOVERNOR)

D. KARTHIKEYAN  
PRINCIPAL SECRETARY TO GOVERNMENT

To

The Commissioner of Technical Education, Chennai -25.  
The Director, Directorate of Collegiate Education, Chennai-6.  
State Level Monitoring Committee  
(thro' Commissioner of Technical Education, Chennai-25.)  
The Accountant General, Chennai-18.  
The Pay and Accounts Officer, Chennai-35.  
The Resident Audit Officer,  
O/o.the Principal Accountant General, Chennai-9.

Copy to

The Hon'ble Chief Minister Office, Chennai-9.  
The Special P.A. to Hon'ble Minister for Finance and HRM, Chennai-9.  
The Special P.A. to Hon'ble Minister for Higher Education, Chennai-9.  
The Private Secretary to Principal Secretary to Government,  
Higher Education Department, Chennai-9.  
Higher Education (D) Department, Chennai-9.  
Finance (Edn-I) Department, Chennai-9.  
Sf/Sc.

//FORWARDED BY ORDER//

  
12.8.2022  
SECTION OFFICER

**Higher Education(B1) Department**

**Annexure to G.O.(Ms).No.156, Higher Education (B1) department, dated 12.08.2022**

**Guidelines for Perunthalaivar Kamarajar College Development Scheme -**

**A. Broad areas for utilizing the Financial Assistance:**

**1. Fund allocation procedure;**

State Level Monitoring Committee will finalize the fund allocation for Government Engineering Colleges, Government Arts and Science Colleges and Government Polytechnic Colleges within the fund allocated for that year. This exercise will be done during the RE / DCB meeting.

[For example for 2024-25 the financial allocation will be Rs.200.00 Cr. Within that ceiling the State Level Monitoring Committee will allocate the resources to Commissioner of Technical Education (Engineering Colleges and Polytechnic Colleges) and Director of Collegiate Education (Arts and Science Colleges). Based on the SLMC recommendations during RE / DCB meeting necessary funds will be allocated under appropriate Head of Accounts].

**2. Scope of work;**

**(i) Minimum assured Infrastructure :**

- Additional class rooms and laboratories /workshops as per the guidelines of UGC / AICTE / Government which is needed for approval must be ensured. Laboratories and class rooms must be provided with machineries and equipment in line with the updated syllabus with Smart Class rooms / Digital Class rooms.
- Furniture for class rooms, laboratories, libraries, students and faculty members as per the requirement / norms.
- Toilets blocks / rest rooms as per the students' strength / requirement and as per norms.
- Carrying out necessary electrical works in the campuses and Hostel.
- Libraries / digital libraries with updated text / reference , e-modules, e-books, digital books.
- Provision of safe drinking water facilities for students and staff in the academic area and dining place as per requirement.
- Creation of Barrier Free Campus as per Right of Persons with Disabilities Act, 2016.

ii) **Optional Infrastructure (After completion of minimum infrastructure)**

- Additional Hostel Buildings / Dining Facilities as per the students' strength and requirement.
- The Playground with bare minimum sports facilities such as basket ball court, Shuttle Court, Volley Ball Court.
- Construction of Compound walls around educational institutions only very essential, wherever required to ensure the safety of students.

**Campus Development:**

Campus development for construction of roads, parking area, sports facilities, providing electricity, water supply, laying of new water supply lines / sewerage lines / storm water lines, gardening, plantation and development of the land, etc.

**3. Infrastructure:**

**1. Need Assessment**

This scheme funding can be utilized for construction of new buildings and for Major repairs / Renovation of old buildings. The buildings may be academic building, library, administrative block, workshops, toilets blocks, hostels etc as per the requirement and AICTE / Government Norms. Needs assessment for each institution will be carried out by Works / Building Committee.

i) **Building / Works Committee:**

The Building Committee / Works Committee shall verify existing buildings including classrooms, smart classrooms, library, auditorium, hostel, toilets, furniture and other civil infrastructure in the campus and submit a report whether the infrastructure is available as per norms or any new constructions required or any major repairs to be undertaken, minor repairs to be carried out or recommended for demolition.

A Building Committee / Works Committee shall be formed in every College headed by

- The Principal,
- The designated Estate Officer (Faculty in charge)
- Civil and Electrical Assistant Executive Engineers of PWD of the Division.

ii) **Selection of works:**

- Construction of new buildings, class rooms, laboratories, library, toilets, dining halls, water supply facilities, drainage facilities, etc shall be taken up on absolutely need basis in the Government Institutions.
- All types of works whether new or Major repair / Renovation works shall be taken up in the identified Government Institutions.

- The Buildings which were repaired and renovated in the last 5 years under any other scheme should not be taken up.
- Before proposing Major repair and Renovation work, a certificate of structural stability should be obtained from the competent technical authority.

### iii) **Finalization of the works:**

Inspection committee in Directorate of Technical Education will analyze and fix the priority for the works identified in each of the identified Government Institutions.

The Inspection Committee, comprising of the following officials, shall do the test verification of the works identified:-

1. Commissioner of Technical Education / Director of Collegiate Education or her nominee
2. Chief Engineer of PWD wing at DOTE
3. Executive Engineer of the Division concerned

In respect of works selected under this scheme the Executive Engineer concerned shall inspect each and every work identified and verify the need for the work and shall identify the appropriate solution considering the site conditions and also the cost involved for the purpose and vet the detailed estimate and send the proposals to the Directorate for necessary follow up action.

Based on the actual need assessment the works thus identified will be sent to PWD Technical wing for estimate preparation. The final proposed list of works shall be approved by the Commissioner of Technical Education in consultation with the Director of Collegiate Education and Chief Engineer, PWD, Technical Education Circle, Chennai for obtaining the administrative sanction from the Government. State Level Monitoring Committee shall prescribe mandatory field test checks for needs assessment done and appropriateness of estimate. Based on the estimates, subject to the budget allocation, administrative sanction from Government will be obtained.

## **2. Preparation of Draft Scheme & Preliminary Estimate:**

Before commencement of any work, a draft scheme is first prepared with brief outline of the work and the probable cost assessment of the scheme is made through a preliminary estimate. This exercise is carried out for budgeting purpose & appraisal of competent authority.

## **3. Detailed Design and Planning:**

Once the technical sanction, financial concurrence and administrative approval for a work have been obtained, the next step consists of preparation of detailed design and planning for the original works. Such a detailed design requires in-depth information of the site, details of functional requirements, subsoil report, loading etc.

With the above information, one can proceed with preparation of detailed design and drawings for the scheme. At this stage the designer has to work out in detail the final configuration of the various elements, their sizes, specification etc.

#### **4. Preparation of Detailed Estimate & Verification:**

Once the designs and drawings are ready and the specifications for the various items of work have been selected, the detailed estimate for the works is prepared. The unit cost for the items of work is normally obtained from what we call the schedule of rates. The detailed Estimate shall be accompanied by appropriate photos indicating the necessity of each and every work (1 photo for every item of work). The estimate prepared should be thoroughly verified by all the officials concerned before it is sent to the concerned Directorate. Assistant Executive Engineers shall do 100 % test check . Executive Engineers 25% and Chief Engineer 10%.

#### **5. Test Verification of the works proposed:**

It is imperative that during the financial year, from the beginning itself extensive field visits backed by proper test checks should be undertaken at the stage of preparation of estimates itself which would facilitate in preparing exact estimates. During test check, the following should be ensured:

- Any essential items of work have not been wrongly excluded.
- Unnecessary items of work have not been wrongly included.
- Has prepared detailed Estimates for actual requirement.
- If the estimate prepared for the repair is found to be huge, it should be examined.
- Any item not permitted in this scheme is not included.

#### **6. Preparation of Tender Documents & Notice Inviting Tender:**

For execution of the works finalized, tender documents are prepared and tenders are invited to submit their bids through tenders for which due notifications are to be made through Notice Inviting Tender (NIT).

#### **7. Evaluation of Tender:**

Proposal from contractors are received against NIT and the comparative merits of the various bids are ascertained through proper evaluation done by a tender inviting authority.

#### **8. Award of Works:**

Based on the recommendation of the Tender inviting authority and approval thereof by competent authority notified as the Tender Acceptance Authority is essential. The work is awarded to the successful bidder for execution of the work as per the conditions laid down in the tender.

### **9. Monitoring of Progress:**

The progress of work and the quality of the work shall be monitored by the Building & Inspection Committee every month and reports be sent to SLMC.

### **10. Inspection of Works:**

During the execution and also after the works have been completed, the work should be jointly inspected at various stages with the contractor / contractor's representative.

### **11. Handing over after Works:**

After the works have been completed as per the drawings and specifications, the work has to be handed over to the user department with the completion plan for future reference and maintenance of the work.

### **12. Documentation:**

Documentation should be done detailing various processes in the implementation of the scheme, starting from identification of works up to the completion of works. Three stages of photographs of all works i.e, prior, during and after completion of works is mandatory. Once the work is completed in all aspects, the name of the scheme should be prominently displayed in Tamil along with the amount incurred on a portion of the building constructed / renovated.

## **II. General Guidelines for Infrastructure Works:**

### **1. Requirements:**

- Number of class rooms and laboratories proposed can be ascertained based on the actual available and necessity.
- Toilets are to be ensured as per students' strength and requirement.
- Drinking water supply is to be ensured as per students' strength.

### **2. Selection of site:**

- Old dilapidated buildings in the campus shall be demolished following due procedure and safety protocol.
- Low lying areas in the campus be avoided.
- The location has to be finalized in keeping mind of the future developments of the College.

### **3. Foundation:**

- Soil investigation may be carried out to ensure the SBC of the Soil in site location.
- Type of foundation has to be adopted as per the SBC of the soil.



- The basement level of the building may be fixed with a minimum height of 0.90m and not more than 1.80m.
- Structural slab with nominal reinforcement may be adopted in the areas where the existing soil of expansive nature.

#### **4. Superstructure:**

- The floor height for classroom and labs are to be fixed as 3.60m from FFL.
- The floor height for separate toilet block is to be fixed as 3.00m from FFL.

#### **5. Internal arrangements:**

- The cupboard with shutter arrangements may be provided in each classroom.
- The work tables for labs are to be provided as per the norms in consultation with the Principal.

#### **6. Flooring:**

- The floorings are to be provided as per the usage of the building such as Kotta or granolithic flooring for workshop, laboratories, class rooms, tiles flooring for computer labs and anti-slippery flooring for toilet and verandah.
- The RCC Structural slab flooring shall be provided in the area of having differential settlement due to nature of soil.

#### **7. Doors and windows:**

- The windows may be provided as UPVC type window with safety grills.
- The doors may be provided as Solid flush door with CRCA frame.
- The toilet doors may be provided of WPC door.
- The safety grills may be provided in the corridors.
- The head room doors are to be provided with steel doors.

#### **8. Roof Finish:**

- The solar tile roofing with gradient concrete may be adopted for buildings with ultimate floor construction.
- Pressed tiles roofing with weathering course may be adopted for buildings with further floor extensions.

#### **9. Painting works:**

- The inner face and ceiling may be painted with oil bound distemper.
- The outer face may be painted with exterior emulsion.
- The ceiling and sunshade shall be painted with "WHITE" colour.
- The exterior face colour combination shall be adopted uniformly for all the buildings constructed under this scheme and the colour shall be approved by the Chief Engineer, PWD, Technical Education Circle.

**10. Pavement:**

- The buildings are to be provided with proper plinth protection works.

**11. Ramp:**

- The buildings are to be ensured with proper ramp arrangements.
- The flooring in the ramp may be laid with Granite or Anti-skid tiles.
- The handrails are to be provided in all the ramps.

**12. Storm drain:**

- The storm drain may be taken up to ensure no inundation around the building during rainy season.
- RWH structures are to be provided in all the blocks as per the Government instructions.
- The storm drains are to be ensured with proper cover slab to ensure students safety.

**13. Roads:**

- The new roads can be laid of CC type roads with nominal reinforcement.
- Rubber moulded Paver block is to be avoided for the vehicle movement roads and can be used in the pedestrian pathways.

**14. External and Internal Electrical works:**

- Adequate lighting has to be ensured inside classrooms and labs.
- Adequate fans has to be ensured inside classrooms and labs.
- Adequate power plugs has to be ensured in laboratories.
- Ensure adequate illumination all-round the buildings.
- Ensure panel board and power distribution boxes.

**15. Design and colour code**

A uniform type design and colour code will be prescribed by State Level Monitoring Committee.

**16.** Works undertaken and their progress shall be uploaded in the websites of DOTE and Directorate of Collegiate Education

**17. Nature of works to be excluded:**

The following works are not allowed to take-up under this Special Scheme:

- Minor Repair Works in existing buildings
- Improvement to existing inner roads.
- AMC works to Lifts, DG and RO plants, etc.,

- Purchase of consumables, materials and all other movable items.

### **III. Equipment:**

#### **Machineries and Laboratories:**

The College shall have the required laboratories and equipment to carryout experiments, meeting the requirements of the curriculum / syllabi for the academic programme, as prescribed in the Regulations and as per AICTE and Government / University norms.

#### **The Stock Verification Committee:**

1. Head of the Department
2. Lab in Charge and Subject Expert
3. Lab Technician
4. Nominee of the Principal ( preferably from Other Department)

#### **The Stock Verification Committee will examine**

1. Equipments / Machineries, whether all are available as per the present syllabus requirement in good working condition.
2. New Equipments / Machineries to be purchased with detailed justification.
3. Equipments / Machineries need major repairs / minor repairs.
4. Equipments / Machineries need to be condemned.

The Committee will submit detailed report with recommendations to the Principal. Based on the report, the minor repairs may be carried out with the available Budget at the College. The Principal after scrutiny will submit the list of new equipment / machineries to be purchased as well as the list of equipment, requiring major repairs to the Commissioner of Technical Education / Director of Collegiate Education.

#### **Purchase Committee:**

The Purchase Committee with the following members shall be formed:

1. Technical Expert ( HOD / Faculty)
2. Bursar / PA ( For taking decision on Finance related matters)
3. Nominee appointed by the Principal, who knows the Purchase Norms

The necessary Government prescribed procedure need to be strictly followed for the purchase of required items complying the Tender Transparency Act.

If the total value of the procurement is less than the Principal's financial power, then the supply order may be issued by the Principal. If the total value of the procurement is more than the Principal's financial power, then the supply order should be issued by the Principal only after the approval of Commissioner of Technical Education / Director of Collegiate Education.

**Machinery / Instruments Erection and Commissioning and Maintenance**

**Contract:**

The Colleges shall ensure that machines are installed and erected immediately and further annual maintenance contract with the OEM firm or its authorized dealers to ensure proper maintenance after the guarantee period .

**Maintenance of Stock Register:**

The procedures outlined for maintenance of stock register must be adhered to. All the new purchases, major repairs and AMC details be entered in the stock register. The information about the equipments / machineries purchased every year shall be furnished to Directorate while submitting the funds utilization certificate.

D. KARTHIKEYAN  
PRINCIPAL SECRETARY TO GOVERNMENT

//TRUE COPY//

  
12.8.2022  
SECTION OFFICER