

Tamil Nadu Innovation Initiatives (TANII) - Minutes of the State Planning Commission on the appraisal of the Innovative proposals 2019-2020 (Round- I)

I) Tamil Nadu Innovation Initiatives (TANII) was established in the State Planning Commission vide in the G.O.(Ms) No.93, Planning, Development & Special Initiatives (SP.1) Department, dated 26.09.2014 to encourage a culture of innovation in Government and Government agencies and it will extend further to the non-Government sector as well.

Accordingly, an “Innovation Fund” has been set up by restructuring the existing Part-II schemes in the financial year 2015-16 and the process of sanction and approval of proposals under the State Innovation Fund would follow a process similar to Part-II Schemes.

II) The first round of proposals received from the Government Departments for the year 2019-2020 have been appraised in the State Planning Commission in the meeting held on 1.2.2019. The meeting was chaired by the Additional Chief Secretary to Government, Planning and Development Department. Totally 37 proposals which include one table agenda from TN Archives, worth of Rs.9048.29 crore have been appraised in the meeting. Three proposals of Science City could not be discussed as no one attended **and the discussion was postponed**. During the pre-appraisal meeting, the proposals which are not considered sufficiently beneficial or lacking in details have been weeded out and a shelf of recommended proposals on pre-approved were prepared. The details of the decision/recommendation of the State Planning Commission are as follows:

I. Information Technology Department

The Information and Technology Department presented three proposals of the Tamil Nadu e- Governance Agency for funding under TANII. The proposal wise recommendations of the State Planning Commission are furnished below:

1. Unified Services Portal Using Single Sign-on and Unified Services Mobile App (Makkal App):

This proposal aims to provide a single and unified interface for G2G, G2B & G2C and unified services app through mobile services by introducing Single-Sign-On (SSO) facility to all the permanent staff of State Government, PSUs and Boards functioning under GoTN at a cost of Rs.156.96 lakh for 3 years.

After having discussion on the components of scheme, the State Planning Commission agreed to fund for the cost of Software Development, Training/ capacity building and maintenance for one year. It was also decided that the cost for Hardware is to be met under the regular department funding. Accordingly, TNeGA has to **rework the cost** of the proposal.

2. IT Garage

The objective of the proposal is to help the Government departments to solve problems for running a start up by providing fully managed workspace with state-of-art facilities, mentoring and training, connecting with resources, investors, customers at the TNeGA Office premises. The cost of the proposal is Rs.160.71 lakh for 3 years.

After having discussion, the State Planning Commission agreed to the proposal as this is for innovation technology to address the emerging technology requirements. TNeGA was, however, requested to **submit** the following details:

- a. Total proposed work space area, lease cost, details of infrastructure to be developed with component wise cost breakups and estimated cost per sqft.
- b. The cost per square feet incurred for the infrastructure development by the TNeGA Office space in the 5th Floor. If the rate differs from the proposed cost, justification is required.

3. Mobile Based Data Collection Tool for Disaster Management

A project to develop a mobile based data collection platform to collect data from the various sources and for capturing quality data from the field in real time. The total proposed outlay is Rs.141.60 lakhs for one year.

After having discussion, the State Planning Commission recommended the proposal but requested the TNeGA to submit the following details:

- a) List out the details of equipment procured and available with TNeGA at various time.
- b) Details of new requirements (equipment proposed) for this project with costing.

Further it was also suggested that this project has to be useful not only at the time of disaster and also for all occasions for the state as a whole. Accordingly, rework costing of the proposal of real time monitoring for the state as a whole and also it was requested to estimate pooling of funds from various other department sources like Disaster Management in order to execute this project besides TANII funding. **Accordingly to rework the project scope and costing.**

In recommended cases, the Department should follow the prevailing Government Procurement Rules and Tamil Nadu Transparency in Tenders Act, 1998, and Rules 2000.

II. Home, Prohibition and Excises Department

The Home, Prohibition and Excise Department presented one proposal of the Forensic Sciences Department for funding under TANII. The recommendation of the State Planning Commission is furnished below:

4. Innovative Forensic Investigation Technology

The Forensic department has proposed the scheme on “Mobile Forensic Van” with laboratory environment equipped with latest forensic tools and kits for crime scene management as instructed in Round II of 2018-19. The total proposed outlay is Rs. 67.50 lakhs for three years.

During discussion, the State Planning Commission enquired about the details of availability of funds under Modernisation of police, maintenance cost for subsequent years, No. of cases handled and capacity utilisation, requirement of consumables including fuel, availability of driver, training etc., The department replied the following:

- a) No funding is available for this scheme under modernisation of Police scheme.
- b) Existing Driver could be used for this vehicle.
- c) The vendor will provide training after supplying the product since the cost includes training components also.
- d) The 3 years warranty will covers annual maintenance also (AMC).
- e) Expenditure on consumables will be met under department’s regular budget.

After having discussion, the State Planning Commission recommended the proposal for funding under TANII and instructed the Forensic Department to **submit a letter of acceptance** for all the above conditions.

In recommended cases, the Department should follow the prevailing Government Procurement Rules and Tamil Nadu Transparency in Tenders Act, 1998, and Rules 2000.

III. Handlooms, Handicrafts, Textiles and Khadi Department

The Handlooms, Handicrafts, Textiles and Khadi Department presented two proposals of Handlooms and Textiles and two proposals of Handloom Weavers Cooperative Society. The proposal wise recommendations of the State Planning Commission are furnished below:

5. Design and Development of Advanced Dryer for Silk Skeins” after Degumming / Dyeing Process

The proposal is to develop a drying machine exclusively only for silk skeins in shortest time using hot air/IR/RF as media retaining silk properties after degumming and dyeing replacing shade drying. The total proposed outlay is Rs. 9.00 lakh for three years.

After having discussion State Planning Commission **recommended** the proposal for funding under TANII as this shows innovation process.

6. Development of Handloom with Electro Magnet Dobby for persons with Disabilities

This scheme proposed is to develop and fabricate a handloom with electromagnetic doobby suitable for persons with disabilities having one or no leg and to develop software for programming the peg plan etc., in order to provide employment to physically challenged persons in handloom sector. The total cost of the project is Rs.5.56 lakh.

During discussion, it was informed by the Department that at present no suitable handloom is available for physically challenged having single or no leg for weaving. The project will be completed in 6 months' time.

After having discussion, the State Planning Commission **recommended** the proposal for funding under TANII with a condition that the project has to be completed in a period of 2 months as the prototype is ready. The Commission suggested to upscale the project on its success.

7. Facilitating Co-optex showrooms with RFID (Radio Frequency Identification Device)

This proposal on RFID is a technology for business to record the presence of an object using radio signals for inventory, preventing shoplifting and inventory control. The total cost of the project is Rs.103.10 lakhs for one year.

During discussion it was enquired about the details of key show rooms where the highest incidents of thefts were registered out of showrooms proposed to implement this scheme.

After having discussion, the State Planning Commission recommended to sanction 3 key showrooms only as a pilot at a cost of Rs.2.86 lakh per showroom.

8. Facilitating Co-optex showroom with POS Machines (Point of Sale) with printer for Campus Sales

This proposal is to provide a Hand-held Point of Sale (POS) machine to the teams which can be easily carried by the staff for Exhibitions, campus sale and computer bills can be generated for customers and keep accounts upto date as the Co-optex has commenced the web based online system to computerise all its activities. The total cost of the proposal is Rs.20.00 lakhs for one year.

After having discussion, the State Planning Commission recommended the proposal in principle for funding under TANII in view of helping weavers. No. of **machines to be decided depending upon the funds available in TANII.**

In recommended cases, the Department should follow the prevailing Government Procurement Rules and Tamil Nadu Transparency in Tenders Act, 1998, and Rules 2000.

IV. Highways and Minor Ports Department

The Highways and Minor Ports Department presented one proposal of Highways Research Station. The recommendation of the State Planning Commission is furnished below:

9. Enhancing the Internal Friction value of fill material for Reinforced soil wall

This proposed study is focused to find the way to improve the properties of the locally available materials to be modified and used as a fill material for Reinforced Soil Wall (RS) at a cost of Rs.5.00 lakh for a period of one year.

After having discussion, the State Planning Commission has **not recommended** this project and is suggested to be met under the Department's regular budget as there was no clear plan of port development at lab level.

V. Environment and Forests Department

The Environment and Forests Department presented five proposals of Principal Chief Conservator of Forests. The proposal wise recommendations of the State Planning Commission are furnished below:

10. Value Addition of Lantana Camara/Other Forest Residues through Briquetting Pelleting Technology

This proposal is for the eradication of lantana and other invasive species including the combustible forest residues through an art of technology involving the local communities with assured market linkages. To convert lantana plantation residues into briquettes through value addition technology. The total cost of the proposal is Rs. 143.00 lakhs for 2 years.

During the discussion it was informed that removal of lantana could be done for 300 to 400 ha per year with existing labour strength, use of existing shed, availing services of hired vehicles etc.,

After having discussion, the State Planning Commission requested the department to **resubmit the proposal** with following details:

- a. No. of laborers to be employed for running machine and their wages
- b. Handling capacity of the machine – capacity plan per machine, cost of machine, revenue generation, total area taken up with this unit.
- c. Cost of raw materials, shed etc.,
- d. Cost of transportation including fuel – Mobility plan to machine
- e. Gain due to introduction of this technology
- f. What gets replaced and impact on that ecosystem and other systems connected to it.

11. Status of Indian Peafowl *Pavocristatus* in Tamil Nadu with special reference to human-peafowl conflicts in Tamil Nadu

This project aims to assess the population and address the human-peafowl conflicts and suggest recommendation for tackling the conflicts. The expected outcomes are (i) Peafowl Distribution Atlas for Tamil Nadu along with their abundance status. (ii) Major Conflict Zones and information on crop damage across the State. (iii) Action Plan with mitigatory measures to minimize human-peafowl conflicts. The total project cost is Rs.21.67 lakhs for one year

After having discussion, the State Planning Commission opined that the proposal has to be **reworked and resubmitted** with the following details:

1. Data on total crop damages and economic loss of agricultural produce due to peafowls and the effect of scaring devices used by the farmers to protect crops.
2. Details of conflict zones and data on area where peafowl population abundance.
3. Action plan for an optimum area (high incidents of human-peafowl conflict area) with proposed intervention

Accordingly, **resubmit the proposal** in coordination with Agriculture Department.

12. An Atlas of the birds of Virudhunagar district

Virudhunagar District Bird Atlas is a project to map the distribution and abundance of birds of the district of Virudhunagar. Objectives are to make checklist of birds, demarcate the distribution of birds by maps, to assess population fluctuation of birds across two seasons and to provide information on bird diversity. The total project cost is Rs.25.00 lakhs for one year.

After having discussion, the State Planning Commission **accepted in principle** and requested the department to furnish the cost estimates of the similar project **done in Kerala State. Funding under TANII will be finalized after checking the funds status.**

13. Connecting culture and Nature conservation Agasthiyar Heritage Park

It is proposed to develop a heritage park in Kalakadu Mundanthurai Tiger Reserve for the protection and conservation of heritage buildings and natural resources. The project will be implemented in the Papanasam, Agasthiyar Falls and Mundanthurai Eco Tourism site. The project aims at developing the Pothigai Porunai Agathiyar Heritage Park. The total project cost is Rs. 260.00 lakh (restricted the cost in pre TANII as against the original cost proposed of Rs.727.00 lakhs).

After having discussion, the State Planning Commission accepted the proposal in principle and suggested to resubmit the original proposal covering all components. It was agreed that TANII shall fund the project which otherwise not funded through other funding sources. It was suggested to consult the Tourism Department as joint venture which will facilitate Tourism sector proposal in the GIM 2019-2020.

Accordingly, the Department was requested to **rework the cost and resubmit** the proposal with the following details:

1. Details of other sources of funding as this project is to develop heritage and eco system (Tourism department)
2. Ascertained the sources of funding through PPP mode.

14. A jungle conservation school at Thalayanai Eco-tourism site in Kalakad Mundanthurai Tiger Reserve

It is proposed to conduct a jungle conservation school at Thalayani Eco – tourism site at Sengaltheri near Kalakadu Mundanthurai to provide wilderness stay experience to the students of Tamil Nadu. The total project cost is Rs. 261.75 lakhs for one year (restricted the cost in pre TANII as against the original cost proposed of Rs.500.00 lakhs).

During the discussion, the department informed that camps have been planned to conduct for the students' only at the jungle conservation school at Thalayani Eco-tourism site and Sengaltheri site. The State Planning Commission suggested that to incorporate Tourism components in the proposal as Eco Development Committee (EDC). The Fees to be collected can be used to meet the recurring expenditure on maintenance.

After having discussion, the State Planning Commission recommended and requested the Department to **rework and resubmit** the proposal. Thalayanai for this year was agreed.

1. No. of students proposed to be participated in the camps.
2. Cost breakups for two places Thalayani and Sengaltheri.
3. Assess the possibilities to open to everybody
4. Rework cost by excluding maintenance cost which can be met through fees collected.
5. Development of Training Hall cost of Rs.67.00 lakhs for Sengaltheri may be excluded.

In recommended cases, the Department should follow the prevailing Government Procurement Rules and Tamil Nadu Transparency in Tenders Act, 1998, and Rules 2000.

VI. Animal Husbandry, Dairying and Fisheries Department

The Animal Husbandry, Dairying and Fisheries Department presented three proposals of Tamil Nadu Veterinary and Animal Sciences University (TANUVAS) and four proposal of TN Dr.J.Jayalalitha Fisheries University (TNJFU). The proposal wise recommendations of the State Planning Commission are furnished below:

15. Tackling house fly menace with novel pheromone traps and biotechnological interventions

The project is aimed at production of traps using pheromone as well as microbial insecticides for control of house flies in poultry farms. The total cost of the project is Rs. 74.16 lakhs for 3 years.

After having discussion, the State Planning Commission has **not recommended** this project for funding under TANII and suggested to seek funding under CSSR or other Research funds available in the State or GOI.

16. Augmenting the Livelihood of Agrarian Community through Unraveling the Genetic Potential of Native Cattle Breeds related to sporting traits in Jallikattu events.

This project is to assess the sporting performance of indigenous bulls by whole genome sequencing and validation of SNPs to identify the potential marker for early selection of bull calves. The total project cost is Rs. 160.75 lakhs for three years.

During discussion it was informed that the similar project was already seek funding under NADP.

After having discussion, the State Planning Commission has **not recommended** this project for funding under TANII and suggested to rework the proposal with a reduced cost and the details of how it is priority to the State and the community.

17. Developing e-market platform for livestock and livestock products in Tamil Nadu

This proposal is to provide better market information on marketing facilities to livestock farmers. Development of mobile apps on market information with an objective to create and maintain e-market platform for livestock/livestock commodities. The total cost of the project is Rs. 52.70 lakhs for two years.

After having discussion, the State Planning Commission recommended the proposal but suggested that to have a discussion with TNeGA on the cost estimates for developing and setting up of e-Market and to submit the revised cost.

18. Artificial Coral Reef (ACR) / Live Rock (ACR/LR) and Fish Aggregating Artificial Reef (FAAR) to enhance Fish Diversity and Biomass in the sea near Pulicat lake towards fishing pressure reduction and livelihood improvement of fisher folk in the lake region.

This proposal is to design and fabricate Artificial Coral Rocks (ACR), design and develop different types of FAAR for restoration of ecosystem and fish stocks in Pulicat lake. To study the succession of biotic assemblage in and around FAAR & ACR, to enhance the biodiversity and biomass in the sea near Pulicate lake and improve the socio-economic status of the fisher folk of the region. The total project cost is Rs. 580.66 lakh for 3 Years.

During discussion it was opined that unless the fishing community of that area agrees the project, this will not be taken up.

After having discussion, the State Planning Commission **recommended** the proposal and suggested **to submit the proposal** with details on i) add on production besides natural production ii) maintenance cost for the subsequent years. iii) estimates of income generation out of this project iv) details of community participation throughout the process of implementation. Accordingly, the project is recommended and **the detailed proposal to the Department to be sent**. Prior to that, the State Planning Commission asked them to consult the National Institute of Ocean Technology (NIOT).

19. Tilapia Entrepreneurial Park Development for Industrialization of Tilapia Culture in Palaar Porandalar Dam (Dindigul District)

The main aim of the project is Industrialize the tilapia culture in advanced aquaculture system and increase the production system and to develop the supply chain and standard operating procedures. The total project cost is Rs. 697.00 lakhs for three years.

After having discussion, the State Planning Commission has **not recommended** the project, it can be taken up only after having clearance from the PWD. Further, similar kind of scheme is already in place, hence expansion cannot be taken up under TANII.

20. Development of Biosensors for the Freshness and Safety Assessment of Fish and Shelfish

This project is for development of bio sensor for assessment of fish freshness on board or onshore and testing hazards of chemical used by fish processes. The total project cost is Rs.746.80 lakhs for three years.

After having discussion, the State Planning Commission has **not recommended** the project and suggested to come through either the Cooperation and Food or Fisheries Department. It has been received directly from Fisheries University. Further, it was also suggested to seek funding under Research and Development.

21. Entrepreneur - Marketing Intelligence Services Cell (e-MISC) for fisheries

The main aim of the project is to link the proposed facilities with major fish market in the State besides interlinking fish landing/production centres for giving advisory and dissemination service to fishermen and consumers of Tamil Nadu about market information including prices for fish. The total cost of the project is Rs.237.00 lakh for a period of 3 years.

After having discussion, the State Planning Commission recommended and it is to be **resubmitted** with remarks of TNeGA / remarks of TN Skill Development Corporation.

VII. Personnel and Administrative Reforms Department

The Personnel and Administrative Reforms Department presented one proposal of Directorate of Vigilance and Anti-Corruption. The recommendation of the State Planning Commission is furnished below:

22. Citizen Centric e-Governance and Office Automation Project

It is proposed to upgrade the existing modules into a state of art IT solutions by implementing e-governance initiatives, upgradation & migration of its existing portal and office automation project. The total project cost is Rs.93.50 lakhs for one year.

After having discussion, the State Planning Commission has **not recommended** this project and suggested to submit the proposal to TNeGA as the department undertaking all e governance activity for all departments. Also to seek funding under Modernisation of Police Scheme and IT Department and then if required, for funding under TANII.

VIII. Social Welfare & Nutritious Meal Programme Department

The Social Welfare & Nutritious Meal Programme Department presented two proposal of Department of Social Defence. The recommendation of the State Planning Commission is furnished below:

23. Developing Child Protection Information System for the Dept. of Social Defence / Juvenile Justice System

This project is to develop an Information Management System to Capture individual child level/ Institutions level information leading to better planning of activities. The total cost for the project is Rs.50.25 for one year.

After having discussion, the State Planning Commission **recommended the proposal in principle and asked the department to get** cost estimates for the Software Development **from the TNeGA**. For Training component and other components seek funding under ICPS budget. Accordingly resubmit the proposal for funding, if required.

24. Setting up of Video Conference facility in 6 Govt. Observation Homes linking 16 Juvenile Justice Boards

The project aims to establish Video Conferencing facility between 6 Govt. Observation Homes and 16 JJBs facilitating to dispose the cases of Juveniles who are facing trial on heinous crimes. The total project cost is Rs.260.66 lakhs for one year.

After having discussion, the State Planning Commission has **not recommended** this project for funding under TANII as already two such facility is in place at Chennai and Vellore JJB, and its report of functioning is to be seen.

IX. Public Department

The public department presented four proposals of Tamil Nadu House, New Delhi. The recommendations of the State Planning Commission are as follows:

25. Provision of Intelligent LED lights for the corridors in Podhigai – Tamil Nadu Illam, Tamil Nadu House, New Delhi-21

The total project cost is Rs.14.00 lakhs for one year.

26. Conversion of Main Block as Disabled Friendly at Vaigai – Tamil Nadu Illam, Tamil Nadu House, New Delhi-21.

The total project cost is Rs.25.00 lakhs for one year.

27. Purchase of 2 Nos. of Electric car for the use of Tamil Nadu Illam, Tamil Nadu House, New Delhi-21.

The total project cost is Rs.15.34 lakhs for one year.

28. Provision of Scrubber Floor Cleaning Machine for Tamil Nadu Illam, Tamil Nadu House, New Delhi-21.

The total project cost is Rs.32.30 lakhs for one year.

After having discussion, the State Planning Commission has **not recommended all the four projects** for funding under TANII as no innovation involved and suggested to seek funding under department's regular budget.

X. Health and Family Welfare Department

The Health and Family Welfare Department presented three proposals of Directorate of Medical Rural Health Services. The recommendations of the State Planning Commission are as follows:

29. Establishment of Audiological services in secondary care hospitals

This project is for Introduction of Innovative Audiological techniques in 23 Government hospitals such as BERA (Brainstem Evoked Response Audiometry) for newborn with

functioning / intact Cochlear nerve and OAE (Oto Acoustic Emissions) for elderly, newborn and adults to identify the functioning of outer hair cells of inner ear. The total project cost is Rs.434.70 lakhs for one year.

After having discussion, the State Planning Commission **recommended for funding** the equipment cost only to implement in **three places** where higher number of patients come and for less accessibility zones. Cost for Training and maintenance will be met under Department funding. Accordingly to rework the cost for 3 units only.

30. Procurement of FE_{NO} (Fractional Exhaled Nitric Oxide) equipment in secondary care hospitals

The project FE_{NO} measurement constitutes a novel way to monitor separate aspects of diseases such as Asthma, COPD and Interstitial lung diseases that are not assessed by other means. Total cost of the project is Rs.508.98 lakhs for one year.

After having discussion, the State Planning Commission has **not recommended** this project for funding under TANII and suggested to seek funding under Department regular budget.

31. Establishment of Oxygen Generation Plant in secondary care hospitals

This project is for establishment of Medical oxygen filling plant is used for generating on-site oxygen for use in various medical applications. The total cost of the project is Rs. 975.00 lakhs for one year.

After having discussion, the State Planning Commission **recommended** the proposal for three places i.e Ooty, Kodaikkanal and Valparai each at Rs.75.00 lakhs. The additional points discussed and clarified covered 5 years' warranty including AMC, penalty clause on the delay in response time and ensuring tie-up with service centre for maintenance.

In recommended cases, the Department should follow the prevailing Government Procurement Rules and Tamil Nadu Transparency in Tenders Act, 1998, and Rules 2000.

XI. Higher Education Department

The Higher Education Department presented one proposal each of Anna University, Directorate of Collegiate Education and Achieves and Historical Research. The recommendations of the State Planning Commission are as follows:

32. Climate change and Emission Induced Urban Heat Island and Health risks in Major cities of Tamil Nadu

It is proposed to examine the interactions between emission, microclimate and subsequent impacts on VBD in major 5 cities of Tamil Nadu viz., Chennai, Coimbatore, Madurai, Trichy and Salem. The total cost of the project is Rs.160.86 lakhs for three years.

After having discussion, the State Planning Commission has **not recommended** the project for funding under TANII and suggested to seek Research fund.

33. Empowerment of Government College women's Hostel student through enhancing of conducive learning environment

The total cost of the project is Rs.990.00 lakhs for one year.

After having discussion, the State Planning Commission has **not recommended** this project for funding under TANII as no innovation involved and suggested to send proposal to Higher Education Department in Government.

XII Archives Department

34. e Archives portal of Tamil Nadu

This portal is hosted on Tamil Nadu Data Centre to support multi-tenancy for more departments to publish their archives and also easy accessing of the people. The total cost of the project is Rs.1268.26 lakhs for two years.

After having discussion, the State Planning Commission **accepted the proposal in principle** with a restricted outlay of Rs.2.50 crore covering Phase I & II subject to the condition of the following:

- a) Limit the no. of records to be scanned. Select the critical documents required to scan.
- b) Cost for the scan to be fixed by following the prevailing tender procedures.
- c) Exclude the cost of Laptop.

Accordingly the proposal for funding under TANII is recommended.

In recommended cases, the Department should follow the prevailing Government Procurement Rules and Tamil Nadu Transparency in Tenders Act, 1998, and Rules 2000.

TMT. JAYASHREE RAGHUNANDAN, IAS.,
ADDITIONAL SECRETARY TO GOVERNMENT
PLANNING & DEVELOPMENT

// TRUE COPY//

Head of Division
(Plan Coordination)