

Tamil Nadu Innovation Initiative (TANII)

Minutes of the State Planning Commission on the appraisal of the innovative proposals 2018-19 (Second Round) (1st Phase) held on 28.11.2018

Tamil Nadu Innovation Initiatives (TANII) in the State Planning Commission is to promote innovation in Government and Government Agencies has been set up by restructuring the existing Part-II schemes from the financial year 2015-16. The State Innovation fund was established in the State Planning Commission would finance new schemes if they are innovative in nature. Accordingly, every year there will be two rounds of sanction of financing from the State Innovation Fund.

For the year 2018-19, Second Round of proposals received from the Government have been appraised by the State Planning Commission in the meeting held on 28.11.2018. During the appraisal meeting 29 proposals, including one Table Agenda were appraised and a shelf of recommended proposals prepared. The details of decision / recommendation of the State Planning Commission are as follows:

Environment and Forests Department

The Environment and Forests Department presented three proposals of the Principal Chief Conservator of Forests for funding under TANII. The proposal wise recommendations of the State Planning Commission are furnished below:

1) Production of Cost Effective – Liquid Bio fertilizer.

This proposal is for research on the production and testing of liquid bio fertilizers as an alternative for chemical fertilizers, proposed at a cost of Rs.100.00 lakhs for a period of 3 years.

The Special Secretary, Environment and Forests Department and the Principal Chief Conservator of Forests (Research and Education) explained about this proposal. It was informed that the Agriculture Department has also doing the similar activity. However, considering its benefits, the State Planning Commission suggested that this project may be worth funding through Research Fund / department fund or RKVY (NADP), which was endorsed by the Additional Secretary to Government, Finance Department.

Hence, State Planning Commission has **not recommended** this proposal for funding under TANII.

2) Generation of molecular markers in Terminalia chebula for genetic & Phytochemical marker assisted selection of elite clones.

This proposal is for selection and identification of elite clones with potent phytochemical constituents and propagation of the immense value to farmers, commercial traders and consumers. This is a two year project for Rs.39.00 lakhs.

The Principal Chief Conservator of Forests (Research and Education) explained about this proposal.

After having discussion on the land availability, seedlings, the need of the outsourcing procurement rules etc, considering its benefits to Agro Forestry industry, the State Planning Commission has **recommended** this proposal for assistance under TANII for Rs.39 lakhs.

3) Whole Transcriptomic and metabolomics of an elite clone of Syzygium jambolanum an antidiabetic medicinal plant.

This proposal is for research to analyse and identify the pathway and the genes involved in the glycoside biosynthesis of *Syzygium jambolanum* and over express to produce antidiabetic metabolite. Such elite clones with over expression of the antidiabetic metabolites supplement one to be distributed to Farmers. This is a two year project for Rs.18.00 lakhs.

After having discussion with the Principal Chief Conservator of Forests and considering the immense value, the State Planning Commission has **recommended** this proposal for assistance under TANII for Rs.18.00 lakhs as a measure of encouragement to Research activities in the Forest Department, since no earmarked funding is available for research activities in the Department. The State Planning Commission suggested that the department may scale up the project after its successful implementation and an Action Plan may be prepared.

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

Home, Prohibition and Excise Department

The Home, Prohibition and Excise Department forwarded two proposals of Office of the Director General of Police and two proposals of Forensic Sciences Department for funding under TANII.

The proposal wise recommendations of the State Planning Commission are furnished below:

O/o. Director General of Police

4) Purchase of Webcasting for all Police Ranges, Commissionerates and Headquarters.

This is a three year project for Rs.246.43 lakhs.

The Inspector General of Police, MPF (i/c) explained as Webcasting is the process of live video broadcasting over the internet to overcome the difficulties of the physical presence of Senior Officers at all the time and during any emergency duties. The captured video from the camera is encoded and transmitted over the networks to the decoding server located at headquarters.

After having discussions on functional aspects, coverage and net connectivity, etc. non-recurring cost of Rs.222.43 lakhs and recurring cost for one year of Rs.8.00 lakhs alone was recommended by the State Planning Commission and department was asked to ensure the security elements while implementation. Accordingly, Rs.230.43 lakhs has been **recommended** for assistance under TANII.

5) 3D Scanning System for Incident Investigation.

This proposed system is for analyzing accidents, incidents, crime scenes, hazardous situation, high security Locations etc., The scanned data is imported to the supporting software and rendered to show the actual scene scanned for investigation at any time. This is a one year project for Rs.89.00 lakhs.

After having detailed discussion with the Inspector General of Police, MPF (i/c)., the State Planning Commission has **recommended** this proposal for assistance under TANII for Rs.89.00 lakhs.

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

Forensic Department

6) Creation of “Counterfeit Indian Currency Profiling Unit at Forensic Sciences Department, Chennai.

To establish dedicated Counterfeit Indian Currency Profiling Unit (CICPU) with adequate infrastructure such as Optical comparison systems for forensic science application with work station and software for recording, storing and retrieving the images of the Fake Indian Currency Notes and a software for image mapping in the Physics Division of the Department for undertaking examination of counterfeit currency notes was proposed. This is a one year project for Rs.85.11 lakhs.

After having detailed discussion with the Forensic Department, the State Planning Commission has **recommended** this proposal for assistance under TANII for Rs.85.11 lakhs. This scheme should be implemented by utilising the existing staff.

7) Innovative Forensic Investigation Technology.

The proposed “Mobile Forensic Van” is a vehicle with laboratory environment equipped with modern amenities and various kits to undertake spot tests to detect the presence of body fluids, narcotics, gunshot residues, explosive residues, etc., in the crime scene itself thus providing a total solution for crime scene management. This is a three year project for Rs.67.50 lakhs.

After having detailed discussion with the Forensic Department, the proposal **has been reverted back for rework** on the requirement of additional lab facilities, vehicle, etc. with component wise cost breakups. Accordingly, the proposal **may be revisited**.

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

Youth Welfare and Sports Development Department

The Youth Welfare and Sports Development Department presented the proposal of Tamil Nadu Physical Education and Sports University for funding under TANII.

8) Sports talent identification through innovative bio science analysis.

This proposal is designed to identify talents from the grassroot level and nurturing the talents to represent the nation in sports. Also to create health, fitness and sports index for the children of Tamil Nadu. This is a three year project for Rs.343.60 lakhs.

The Principal Secretary to Government, Youth Welfare and Sports Development Department and the Vice Chancellor, Tamil Nadu Physical Education and Sports University

explained the proposal. After having detailed discussion, this proposal **has been reverted back** to the University for rework by ensuring all proposed facilities must be at the University itself, instead of mobile facility initially.

Accordingly, the State Planning Commission **has reverted back** this proposal **for rework and resubmit** the proposal to establish a static lab with the detailed cost breakups along with dormitories. Proposal on establishing mobile units can be taken up later.

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

Micro, Small and Medium Enterprises Department

The Micro, Small and Medium Enterprises Department presented three proposals of the Industries and Commerce Department and the Managing Director, Kaikatty Industrial Co-operative Tea Factory Ltd., has presented one table agenda for assistance under TANII before the State Planning Commission. The proposal wise recommendation of the State Planning Commission are furnished below:

9) Setting up of 1) Construction of e-Auction Hall, 2) Construction of Direct Sales Point, 3) Software Development (new version)

The SAGOSERVE proposal is for switching over from intranet Tender to E-Auction for improving efficiency in Tender process, transparency in e auction, provides bidding facility, increase in sales price, global tendering from anywhere etc.

This is a one year project for Rs.146.91 lakh. The Secretary to Government, MSME and the Managing Director, SAGOSERVE explained about the proposal involving stakeholders such as farmers, merchants etc.

After having detailed discussion, the State Planning Commission has **recommended for funding at the sharing contribution of 80% from TANII and 20% from M/s. Salem Starch and Sago Manufacturer Service Industrial Co-Operative Society.** Accordingly, out of total proposed outlay of Rs.146.91 lakhs, TANII commitment is Rs.117.53 lakhs and SAGOSERVE's is Rs.29.38 lakhs.

10) Purchase of Atomic Absorption Spectrophotometer and Geo-Technical Instruments for establishment of Analytical Hub

To meet the growing demand of multifaceted services in the industrial sector, an analytical lab comprising of Toxic element detection unit was proposed for the testing the toxic elements present in herbal products and food packaging material. A Geo-technical laboratory has been proposed for analysis of soil samples for ensuring quality building construction.

This is a one year proposal for Rs.77.00 lakhs. The Secretary to Government, MSME Department explained about this proposal.

After having discussion, the State Planning Commission has **recommended** this project for assistance under TANII for Rs.77.00 lakhs with a condition that, after successful implementation, revenue earned through this project should be remitted to the State Innovation Fund.

11) Modernisation of Irula Snake Catchers Industrial Co-operative Society Ltd.,

This is a one year project for Rs.30 lakhs. The Secretary to Government, MSME Department explained this project.

After considering its revenue generating mode and it could recover the project cost within 3 to 4 years, the State Planning Commission has **recommended** this proposal for assistance under TANII for Rs.30 lakhs.

Table Agenda

12) Setting up of unit for the production of Catechins

This is a one year project for Rs.298.35 lakhs. The Secretary to Government, MSME Department explained about this proposal.

Considering the production of catechins which is used as ingredients in Pharmacy industry, toothpaste, beverages etc., the State Planning Commission has **recommended** this project as pilot study in Kaikatty Industrial Co-operative Tea Factory Ltd., in the **ratio of 2:1** between the Government and the Co-operative Society respectively at a total cost of Rs.298.35 lakhs of which commitment from TANII is Rs.200.00 lakhs and Rs.98.35 lakhs from Kaikatty Industrial Co-Operative Tea Factory Ltd., Nilgiris District.

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

Handlooms, Handicrafts, Textiles and Khadi Department

The Handlooms, Handicrafts, Textiles and Khadi Department presented the proposal of Tamil Nadu Khadi and Village Industries Board for funding under TANII.

13) Installation of Vending Machine for sale of Khadi and Village Industries Products.

This is a one year project for Rs.20.00 lakhs.

After having discussion with the Chief Executive Officer, Tamil Nadu Khadi and Village Industries Board the State Planning Commission has **recommended** the proposal for one vending machine for Rs.20.00 lakhs which could be installed at Kuralagam or at any potential Metro station or any suitable place that may be decided by the department.

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

Energy Department

The Energy Department presented the project of TANTRANSCO namely Artificial Intelligence Based Active Grid Network Management to minimise Renewable Energy Curtailment and Improve System Balancing for a sum of Rs.600 lakhs for assistance under TANII.

14) Artificial intelligence Based Active Grid Network Management to Minimise Renewable Energy Curtailment & Improve System Balancing

Implementation of Artificial Intelligence Based Active Grid Network Management technology to bring in automated, intelligent and real time control over wind, solar energy power plants in the state of Tamil Nadu to address the escalating operational challenges associated with large scale integration of favorable energy sources such as wind into the grid.

This is a one year project for Rs.600.00 lakhs.

The Director (Operation), TANTRANSCO explained about this project before State Planning Commission. After detailed deliberation, considering its uniqueness, the State Planning Commission has **recommended** this project for assistance under TANII.

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

Higher Education

The Higher Education Department forwarded one proposal of Directorate of Technical Education, one proposal of Allagappa University and one proposal of Annamalai University for assistance under TANII. The recommendations of the State Planning Commission is furnished below:

15) Nano-Coatings for Biomedical implementation through Electrical Discharge Alloying

This is a three year project for Rs. 99.98 lakhs. The Director, Department of Technical Education explained this project. This is in academic level and it requires comments of Director Medical Education and other necessary clearances. Therefore, the State Planning Commission has **not recommended** this proposal.

16) Sustainable Bioenergy production from Household Septic Tank using Clay Cup Modified Microbial Fuel Cell Technology

This is a three year project for Rs.149.79 lakhs.

The Registrar, Alagappa University explained about this project. After detailed discussion, the State Planning Commission has **not recommended** this proposal. As the project proposes for effective Solid Waste Management, it is suggested to explore the possibilities of assistance under Swachh Bharat Mission.

17) Solar based improved power quality interleaved boost converter fed marine boat involving DC / Hybrid Drive

This is a three year project for Rs.66.95 lakhs.

The Registrar, Annamalai University explained about this project. After detailed discussion the State Planning Commission has **recommended** this proposal.

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

Public Department

The Public department has forwarded three proposals of the Principal Resident Commissioner, Tamil Nadu House, New Delhi for assistance under TANII. The proposal wise recommendations of the State Planning Commission are furnished below:

18) Modernisation of Conference Hall with advanced Video Conferencing facility, Audio & Visual system in Podhigai – Tamil Nadu Illam of Tamil Nadu House, New Delhi.

This is a one year project for Rs.75.00 lakhs.

After having discussion with the Principal Resident Commissioner, Tamil Nadu House, New Delhi, Rs.75.00 lakhs the State Planning Commission has **recommended** this proposal for assistance under TANII.

19) Modernisation of Kitchen with modern Kitchen Equipments at Podhigai – Tamil Nadu Illam of Tamil Nadu House, New Delhi.

This is a one year project for Rs.93.00 lakhs.

After having discussion with the Principal Resident Commissioner, Tamil Nadu House, New Delhi, the State Planning Commission has **recommended** this proposal with restricted outlay at Rs.75.00 lakhs for assistance under TANII.

20) Provision of Automatic Snacks & Beverages Vending Machines in Tamil Nadu House, New Delhi.

This is a one year project for Rs.7.50 lakhs.

This proposal **has been withdrawn** by the Principal Resident Commissioner, Tamil Nadu House, New Delhi.

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

Animal Husbandry, Dairying and Fisheries

The Animal Husbandry, Dairying and Fisheries Department forwarded one proposal of Director of Dairy Development Department and three proposals of Tamil Nadu Dr. J. Jayalalithaa

Fisheries University for assistance under TANII. The project wise recommendations of the State Planning Commission are furnished below:

21) Installation of CLOUD based Remote Monitoring System for Milk Testing and Chilling Operation at 100 Bulk Milk Collection Centres in Tamil Nadu

This is a three year projects for Rs.399.74 lakhs.

The Managing Director, AAVIN explained about this proposal. After having discussion, it was suggested to execute this project through lease operation model keeping KPI. Accordingly, the State Planning Commission **reverted back** this scheme **for rework** at Rs.400.00 lakhs or Rs.500.00 lakhs covering all Bulk Milk Collection Centres instead of proposed 100 nos. of Bulk Milk Collection Centres. Further, it was also instructed that the lease should include operation and maintenance.

The Vice Chancellor, Tamil Nadu Dr. J. Jayalalithaa Fisheries University explained the following three proposals.

22) Development and demonstration of technological interventions in Augmenting Aquaculture production.

This is a three year project for Rs.304.62 lakhs.

After having discussion, it was suggested that the University may utilize the Research Fund available and hence it was **not recommended**.

23) Development of Biosensors for the Freshness and Safety Assessment of Fish and Shellfish

This is a 3 year project for Rs.746.80 lakhs.

After having discussion, the State Planning Commission expressed the view that the proposal lacks clarity on the ownership of the proposed system. Hence, it was informed to **rework and resubmit** the proposal accordingly.

24) Entrepreneur – Marketing Intelligence Services Cell (e-MISC) for fisheries

This is a three year project for Rs.237.00 lakhs.

After having discussion, it was informed that there should be a link between University and Fisheries Department for the implementation of this scheme. Hence, it was instructed to **resubmit** the proposal with the remarks of Fisheries Department.

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

Agriculture Department

Agriculture Department forwarded the following five proposals of the Tamil Nadu Agricultural University for assistance under TANII. All these proposals were explained by the Director, Planning and Monitoring, Tamil Nadu Agricultural University. The observations are furnished below:

25) Micro Irrigation Centre of Excellence

This is a three year project for Rs.193.00 lakhs

After having discussion, it was instructed to utilize NADP Fund for this project, and hence, it was **not recommended**.

26) Pilot Plant for upscaling extraction of bioactive molecules from medicinal plants for exploitation in food and health industry

This is a two year project for Rs.311.00 lakhs.

After having discussion, it was informed to recheck the cost effectiveness in the project and **resubmit the proposal**.

27) Accelerated vermicompost production through automation

This is a two year project for Rs.280.50 lakhs

After having discussion, it was instructed to State Planning Commission to liaise with Ministry of Environment, Forest and Climate Change, Government of India for showcasing this model at national level with special reference to co-composite Technology. In this regard, a D.O. letter may be sent from the Principal Secretary to Government, Planning, Development and Special Initiatives Department. The cost of the project may be **reworked and resubmitted** accordingly.

28) Popularisation of raised bed technology for pulse based high value cropping systems

This is a one year project for Rs.230.76 lakhs.

After having discussion, it was suggested to explore the possibilities of funds from National Food Security Mission (NFSM) or SPI, and, hence it was **not recommended**.

Further, after standardization the technology may be forwarded to Agriculture Department for mass implementation.

29) Pelletisation of Forage Crops for enhancing livestock productivity

This is a two year project for Rs.475.20 lakhs.

After having discussion, it was suggested that comments of the Animal Husbandry Department needs to be obtained for the project of this project and the cost may be **reworked and resubmitted** accordingly.

After passing the above instructions the State Planning Commission instructed to prioritize two or three proposals to a tune of Rs.4 or 5 crore.

General

The State Planning Commission observed that in the seven rounds of appraisals, numerous proposals of the Universities viz., Anna University, Annamalai University, Alagappa University, Tamil Nadu Agricultural University, TANUVAS, Tamil Nadu Dr.J.Jayalalithaa Fisheries University, Tamil Nadu Physical Education and Sports University etc., were recommended for funding under TANII. In this context, it is now proposed that a review of all sanctioned schemes may be conducted by State Planning Commission.