

Tamil Nadu Innovation Initiatives (TANII) - Minutes of the State Planning Commission on the appraisal of the Innovative proposals 2016-17.

I) Making Tamil Nadu the Innovation Hub of the country and to encourage a culture of Innovation in Government and Government Agencies is one of the themes of “Vision Tamil Nadu 2023”. Accordingly, the “Tamil Nadu Innovation Initiatives” has been established in the State Planning Commission and an “Innovation Fund” has been set up by restructuring the existing Part-II schemes from the financial year 2015-16.

II) The first round of proposals received from the Government Departments for the year 2016-17 have been appraised in the State Planning Commission in the meetings held on 05.01.2016, 11.01.2016 and 12.01.2016. During the appraisal meeting, the proposals which are not considered sufficiently beneficial have been weeded out and a shelf of recommended proposals prepared. The details of the decision/recommendation of the State Planning Commission are as follows:

Home, Prohibition and Excise Department

Five proposals have been received from Home, Prohibition and Excise Department for funding from the Innovative fund. After detailed discussion, two proposals are weeded out as not beneficial and three proposals are recommended as detailed below:

1) Video Synopsis and Video Analytical Software (Head of Dept: Director General of Police)

The proposal on Video Analytical Software has been appraised under TANII – 2015-16 (Round-II). During the course of the appraisal, it has been informed that the proposed Video Analytical Software will be useful for live video analysis only and not for post video analysis. Therefore, Home Department has withdrawn the proposal for a thorough revisit. Now, Home

Department has revised the proposal that accommodate post video analysis software. It is stated that on many occasion huge video footage will be available for the police to arrive at a conclusive evidence which is very tedious and consumes more time to arrive at evidence. The proposed software will be useful for crime detection, forensic analysis etc. of large videos in quickest possible times by using the filters for colour, direction of movement, area, size of object under search, its sensitivity etc.

The State Planning Commission during the appraisal meeting found that the scheme would be a good crime detection step and the proposed innovation address the problem with greater efficiency measured in terms of time and improved service delivery in terms of greater use. Further, the State Planning Commission desires to have a pilot to be implemented on voluntary basis in a non police area. Accordingly, State Planning Commission recommended the project with increased outlay of Rs.63.92 lakhs over and above the proposed outlay of Rs.62.00 lakhs. The increased cost of Rs.1.92 lakhs is for additional 6 video analytical software (Rs.32000 x 6). The additional 6 video analytical software is for doing a pilot to link up private areas. The proposal is recommended at a total cost of Rs.63.92 lakhs.

2) Digital HF Radio with data Modem (Head of Dept: Director General of Police)

At present all the districts in Tamil Nadu is using VHF communication for intra district communication which is vulnerable during natural disaster. Tamil Nadu Police is using Analog based HF communication for communicating 1 km to 3000 km without any connectivity i.e. copper cables and OFC. The districts and cities are using HF communications as emergency backup communication, since other terrestrial communication can fail during the natural disaster. However, the Analog communication is prone to heavy noise

during day time and thus hampering the regular usage of HF communication. The proposed Digital based HF communication can be instantly installed and will functions totally noise free. Hence it is proposed to purchase 13 Digital HF Radios with Data Modem for the Coastal districts such as Chennai, Thiruvallur, Kancheepuram, Villupuram, Cuddalore, Nagapattinam, Tanjavur, Tiruvarur, Pudukottai, Ramanathapuram, Thoothukudi, Tirunelveli and Nagercoil as emergency backup communication at a total cost of Rs.70.98 lakhs.

The State Planning Commission during the appraisal meeting is of the view that the system is really a back up communication to be implemented in the state for the first time. Therefore the State Planning Commission recommended the proposal with one more Digital HF Radio for Disaster Management. The additional Radio should be kept under the control of the technical wing and to be shifted to the office of Commissionerate of Revenue Administration or any other place whenever the necessity arises. Accordingly, the State Planning Commission recommended the proposal for 13 +1 Digital HF Radios with an increased outlay of Rs.76.44 lakhs.

3) Establishment of concrete tile manufacturing unit (Head of Dept: Tamil Nadu Police Housing Corporation)

The Tamil Nadu Police Housing Corporation has proposed to establish a Concrete tiles manufacturing unit at Central Prison, Palayamkottai by utilizing the copper slag, a waste material obtained from M/s. Sterilite Copper Industries as a substitute of sand. Inculcating the work habit in the prisoners during their confinement in prisons and to impart training and to teach them new skills are the public issue involved in this proposal. The copper slag will be supplied by M/s. Sterilite copper Industries at free of cost (excluding

conveyance charges). The water, electricity will be utilized from Central Prison, Palayamkottai. The blocks so manufactured are to be used in Tamil Nadu Police Housing Corporation projects for plinth protection, scheme roads, platforms etc. and the cost of the paver block is much lesser than the market rate with higher finishing. The proposal seems to be entirely a new idea being applied for public service delivery. The total cost of the project is Rs.48.00 lakh towards creating the infrastructure for the proposed project.

The State Planning Commission after detailed deliberation has decided to consider this project for funding under Innovative Initiative subject to the clearance of Tamil Nadu Pollution Control Board. Therefore, the proposal has to be resubmitted with Pollution Control Board clearance and indicating the alternative mode of disposal of the copper slag and also indicating the other uses of the copper slag.

4) Establishment of Mobile Device Forensic Division (Head of Dept: Forensic Sciences Department)

The Home Department has proposed to establish a "Mobile Device Forensic Division in the Forensic Science Department, Chennai at a total cost of Rs.1.58 crore from the Innovation Fund. The forensic study of mobile device is relatively new field and the existing computer forensic technique is inadequate and forensic examination is necessary. The Mobile Forensic Science is branch of digital forensics relating to recovery of digital evidence or data from a mobile phone device under forensically sound condition. A proliferation of phone particularly smart phones on the consumer market caused a demand for forensic examination of the device, which could not be met by existing computer Forensic techniques. To have effective control over the crime and criminals and also bringing the criminals to book, it is proposed

to establish a Mobile Device Forensic Division at a total cost of Rs.158.05 lakhs including recurring cost of Rs.54.95 lakhs for three years.

The State Planning Commission while appraising this proposal is of the view that the proposal seems to be vendor driven technology. The Department is not in a position to explain the technical aspects of the project during the meeting and therefore the State Planning Commission suggested to take this proposal to Anna University and IIT and accordingly rework and resubmit it.

5) Establishment of Vehicle Fitness Testing Centre (Head of Dept: Transport)

In Transport Department, traditional method of testing procedure has been adopted for issue of fitness certificate to the Transport Vehicles. In order to dispense with such system, it has been proposed to establish 14 Vehicle Inspection and Testing Centre in 12 Zones each at a cost of Rs.70.00 lakhs. Out of 14 centres proposed, two centres are in Chennai North, two centres in South Zone and the remaining 10 centres are under the jurisdiction of 10 Zonal offices. The total cost would work out to Rs.10.00 crores. Now, the issue of fitness certificate by the Motor Vehicle Inspectors is based on the visual inspection only. The procedure of manually inspecting the vehicle does not meet the quality requirements and it is found to be deficient in meeting the objectives of certification mechanism. In view of above, it is necessary to set up an Automated Vehicle Inspection and Certification Centre across various locations in the state of Tamil Nadu. This proposal will help to improve the quality of testing system and to reduce the accidents.

The State Planning Commission appraised the proposal in detail. The introduction of new Road Safety Bill is under consideration of Government of India. Therefore, if the proposed new bill of Government of India privatises

the testing, then the huge investment may go waste. The State Planning Commission is not inclined to consider the project of such huge infrastructure investment. However, the State Planning Commission agreed to do a pilot in 3 vehicle inspection and testing centres. The State Planning Commission also suggests an evaluation of the schemes in the 3 centres to be implemented as a pilot to cover the data on accidents, general improvement of checking etc. before expansion be considered. Subject to this remarks the proposal is recommended as a pilot in 3 centres at a reduced cost of Rs.21.00 lakhs.

Handlooms, Handicrafts, Textiles and Khadi Department

Only one proposal received from Handlooms, Handicrafts, Textiles and Khadi Department which was not recommended as appraised by the State Planning Commission is as follows:-

6) Establishment of Automatic Reeling Machine (Head of Dept: Sericulture)

It is proposed to establish Automatic Reeling Machine of 400 end (40 basins) capacity at Chinavedampatti Government silk farm, Coimbatore with latest technology for cocoon drying, cooking, feeding cocoons etc., with a capacity to produce international grade quality of raw silk (2A grade and above). The proposed Reeling Units provides continuous employment directly to 40 skilled labourers per shift and indirect employment to workers in raw silk processing activities viz. twisting, wet processing and weaving etc. Hence the productivity of 400 and automatic reeling unit is 50 kg. of raw silk per day of single shift and this machine is to be imported from China. The cost of the machine is Rs.412.15 lakh.

The State Planning Commission appraised the proposal and found no innovation in setting up of a new unit. Already the department is having 8 reeling units and the proposed unit is just an adding capacity for which manufacturing activity is the only outcome. The State Planning Commission is of the view that the Handlooms, Handicrafts, Textiles and Khadi Department is to put up a scheme which is intended to encourage outsiders so that it can be done in the private sector. The project is not recommended by the State Planning Commission.

Law Department

Only one proposal received from Law Department which was not recommended as appraised by the State Planning Commission as follows.

7) Creating E-content for Rural Legal Literacy (Head of Dept: Dr. Ambedkar Law University)

E-content is the web based learning to create legal awareness through on-line. This method of e-content is time saving and enables an individual to seek legal guidance from any remote area. Easy access is the advantage of this method. The traditional way of creating legal literacy manually by engaging trainers may be replaced gradually by this e-content method. The total project cost is Rs.201.00 lakhs for the period of 3 years which includes honorarium component.

The State Planning Commission appraised the proposal in detail. The State Planning Commission suggests that the department must interact with Information Technology Department and also rework the components in consultation with TNeGA, ELCOT, Arasu Cable Corporation etc. The

Honorarium component has to be deleted. The project is not recommended by the State Planning Commission and it has to be revisited.

Personnel and Administrative Reforms (Training) Department

Only one proposal received from Personnel and Administrative Reforms (Training) Department which was recommended as appraised by the State Planning Commission as follows:-

8) DVAC Office Automation (Head of Dept: Vigilance and Anti Corruption)

The confidential Branch of the Directorate of Vigilance and Anti Corruption Department was automated during the year 2011-2012 under the Part-II scheme and the web based software package developed by M/s.Blitz systems through ELCOT in which the computers and other logistics were not provided and hence all the officers and staff were not able to access the application. Now the DVAC proposes the Office Automation of DVAC Headquarters and Detachments by developing new module with the state-of art IT solutions which enabling all the detachments of DVAC located in the districts to update and access the database at Headquarters. The Department also proposes to purchase Vehicles for Court Cell (34 Nos, one for each court) for creation of dedicated Court/Trial monitoring cells as an initiatives for speedy trial of pending cases. It is stated that on an average, each Investigating Officer has 14 cases to be regularly followed before the trial courts, in addition to the works relating to the cases pending before the High Courts and Supreme Court. The total cost involved in this proposal is Rs.491.60 lakhs for 3 years including recurring cost of Rs. 90.00 lakhs.

The State Planning Commission after detailed deliberation has agreed for the recurring cost and accordingly recommended the implementation of the scheme at a total cost of 71.03 lakhs for a period of 3 years subject to the condition that after 3 years DVAC has to switch over to TNSWAN. The non-recurring cost which includes purchase of vehicles is not recommended.

Personnel and Administrative Reforms Department

Only one proposal received from Personnel and Administrative Reforms Department which was recommended as appraised by the State Planning Commission as follows.

9) On line filing of appeals to the State Information Commission (Head of Dept: Tamil Nadu Information Commission)

As many as 20,000 appeals are received in a year in the Commission. At present all these appeals are filed and processed manually, which results in substantial delay and very often appeals are taken up after a long gap of time. The delay causes dissatisfaction to the public and requests have been received from the public to enable online filing of appeals. An online appeal system along with automation of the process will help in expeditious processing and also in keeping the appellants informed of the status of their appeals. The proposed project will also take care of the people who want to file the appeals using manuscript forms if they do not have the resources or knowledge to file online appeals. At present, the majority of RTI petitions are aimed at getting information for the purpose of eventually getting redressal of grievances. Therefore, speeding up the process of disposal of the second

appeals will be of great benefit to the people to approach the Commission.

The total cost amount to Rs.30.64 lakhs.

The State Planning Commission has appraised the project and found that the total project cost appears to be very low. The department has agreed to meet out the additional expenditure by its own source. Therefore, the State Planning Commission recommended the proposal at the proposed outlay of Rs.30.64 lakhs subject to the condition that if the ultimate cost exceeds, then TANII should not be approached for the additional cost.

Youth Welfare and Sports Development Department

Seven proposals have been received from Youth Welfare and Sports Development Department for funding from the Innovative fund. After detailed discussion, four proposals are weeded out as not beneficial and three proposals are recommended as detailed below:

- 10) **“SDAT Sailing Academy and Centre of Excellence in Sailing and Rowing at Chennai” (Head of Dept: Sports Development Authority of Tamil Nadu)**

This proposal is for establishment of Marina Sailing Academy and Centre of Excellence for Sailing with funding under TANII. The proposed Academy would go a long way in identifying talented boys / girls and training them in sailing so that they bring laurels not only to the State but to the Nation as a whole. The proposed site has a location advantage as it is abutting the Asia’s longest beach i.e. Marina abutting and the Chennai Port Trust. It also has other advantages in terms of access to sea via Coovum river mouth, required draft at landing site etc. The total project cost is Rs.22.76 crore, of

which the Machinery and Equipment cost alone is Rs.13.26 crore and for the Construction work Rs.9.50 crore with Non-Residential framed structure Building in Coastal Area. The land is available for construction at 2.75 acres of land. The land was already possessed by Sports Development Authority of Tamil Nadu (SDAT). The machinery includes 20 numbers of Optimistic Boats, 10 numbers of Laser Boats with Masts, purchase of Gymnasium Equipments etc.,

The State Planning Commission appraised the project in detail. The Academy with the facilities proposed will offer “International Standard Training” to sailors not only from Tamil Nadu but also from other places and will help in the long run in improving tally of medals for the State of Tamil Nadu as well as for the Nation. Therefore, the State Planning Commission recommended the proposal in principle. Accordingly, the proposal is recommended with the initial cost of Rs.7.00 crore for the first stage for basic minimum facilities. Youth Welfare and Sports Department may therefore revised the proposal accordingly. The State Planning Commission also suggests a feasibility study on environmental issues with funding from TNIDB and Government of India part funding.

11) Establishing e- Library in the Tamil Nadu Physical Education and Sports University Campus. (Head of Dept: Tamil Nadu Physical Education and Sports University)

Digital libraries are organisations that provide the resources, to select, structure, offer intellectual access to, interpret, distribute, preserve the integrity of, and ensure the persistence over time of collections of digital works so that they are readily and economically available for use by a defined community or set of communities. The total proposed project cost is Rs.6.55 crore for a period of 3 years which includes construction of building etc.

The State Planning Commission after detailed deliberation has decided to recommend the proposal by excluding the building cost of Rs.404.00 lakhs. Accordingly, the proposal is recommended at a cost of Rs.251.00 lakhs for a period of 3 years.

12) Gymnasium to Hamlet scheme (Head of Dept: Tamil Nadu Physical Education and Sports University)

The project is being proposed to cater the Health and fitness needs of people dwelling in villages and Hamlets and for assessment of Health, Fitness and Nutritional Status through mobile lab. The total project cost is Rs.150.00 lakhs for a period of 3 years. The State Planning Commission after detailed deliberation has suggested to the University to try this out in a village near the university and find out its workability. Accordingly, the proposal is deferred.

13) Centre for Excellence in Sports Bio Mechanics (Head of Dept: Tamil Nadu Physical Education and Sports University)

Tamil Nadu Physical Education and Sports University placed this proposal to set up state of the art centre of excellence in sports biomechanics in its campus to cater the needs of all sports fraternity of every nook and corner of Tamil Nadu and India as well. The total project cost is Rs.1312.20 lakhs for a period of 3 years which includes the construction cost of multi purpose building at Rs.600.00 lakhs.

The State Planning Commission is willing to fund 50% of the construction cost on multipurpose building. However, during the course of the appraisal meeting the State Planning Commission is having reservations on the medical elements involved in the proposal and therefore suggested to the department to consult with Dr. M.G.R. Medical University so that the project can be

implemented as a joint venture. The proposal is to be reworked and resubmitted accordingly after consultation with Dr. M.G.R. University.

14) Artificial Rock Climbing set up at NCC Training Academy, Idaiyapatti (Head of Dept: National Cadet Corps)

Rock Climbing is an exciting and challenging activity and an excellent environment for building leadership, self-confidence and teamwork skills. Youth Welfare and Sports Development Department proposed an Artificial Rock Climbing set up at NCC Training Academy at Idaiyapatti at a total cost of Rs.30.00 lakhs.

The State Planning Commission after detailed deliberation endorses the proposal. It not only increases the experience of Cadets towards rock climbing but also increases the strength and will power of the Cadets. Therefore, the State Planning Commission recommended the proposal at the total outlay of Rs.30.00 lakhs.

15) Cadre Management software for NCC Department (Head of Dept: National Cadet Corps)

The Directorate of National Cadet Corps proposed to develop a cadre management software at a total cost of Rs.10.00 lakhs by funding from TANII. During the course of the discussion it was informed that the State is already in the process of having a scheme with HR Software. Therefore, this proposal to be integrated in the proposed system. The proposal is not recommended.

16) Camp Accounting Software (Head of Dept: National Cadet Corps)

The Directorate of NCC has proposed to develop a Camp Accounting Software at a total cost of Rs.10.00 lakhs to monitor the various expenditure incurred in camps. The State Planning Commission after detailed deliberation has not recommended the proposal.

Welfare of Differently Abled Persons

Two proposals have been received from Welfare of Differently Abled Persons Department for funding from the Innovative fund. After detailed discussion, both the proposals are recommended as detailed below:

17) **New born screening programme for hearing loss in babies for two districts viz., Chennai and Sivagangai (Head of Dept: Commissionerate of Welfare of Differently Abled)**

The prevalence of hearing loss is very high in Tamil Nadu. If hearing impairment is identified and treated in its early stages, the child's speech and language skills will be comparable to his /her normal hearing peers. The scheme is to screen and identify hearing loss in babies as young as 6 months of age. Transfer the identified babies to early diagnostic centers for detailed and differential diagnosis and then to intervene the child with appropriate prosthesis followed re-habilitation as young as 12 months of age. It is proposed to screen 20,000 new born babies in a year so as to integrate them in mainstream schools before the age of 5 years. While screening, the babies will also be screened for other developmental delays and suspected babies will be provided with appropriate intervention. The scheme is proposed for two districts viz., Chennai and Sivagangai as pilot project. In Chennai screening will be conducted in 11 Corporation maternity hospitals making use of Audiologist, Nurses attached to NICU, Special Educators etc., In Sivagangai, screening will be conducted in the District Head Quarters hospital, Taluk hospital and Upgraded PHCs utilizing the services of Audiologist, DDAWO, Nurses attached to NICU, Special Educators etc. The total cost of the project is Rs.436.42 lakhs for a period of three years.

The State Planning Commission on appraisal has agreed to recommend this proposal. Accordingly, the proposal is recommended as a pilot. The programme is to be evaluated before and after its implementation using the institutions / organisations empanelled recently by the State Planning Commission and then scaled up through Health Department.

18) Augmentative and Alternative Communication system for persons affected by Cerebral Palsy (Head of Dept: Commissionerate of Welfare of Differently Abled)

To address the needs of intellectually challenged (persons affected with Cerebralpalsy) particularly to facilitate communication and education, a hitech device to facilitate speech and communication has been developed. It was developed in 2009 by Invention lab. This proposal was placed in the earlier TANII 2015-2016 with the project cost of Rs.144.00 lakhs and agreed by the SPC with the suggestion to reduce the cost as this will be a pilot project. Accordingly the budget was reworked for RS.100.09 lakhs.

The State Planning Commission recommended the proposal for an outlay Rs.100.09 lakhs as no device have been provided for intellectually challenged, particularly persons affected with Autism, Cerebral palsy, Downsyndrome etc. The tool that allows children with speech and language disabilities to communicate using pictures and artificial speech. Hence this project will be particularly useful for children with speech and communication problem.

Social Welfare and Nutritious Meal Programme Department

Six proposals have been received from Social Welfare and Nutritious Meal Programme Department for funding from the Innovation fund. After detailed discussion, four proposals are weeded out, one proposal recommended for consideration under TANII 2015-16 and the remaining is recommended as detailed below:

19) **Electronic growth monitoring in one district of Villupuram on pilot basis (Head of Dept: Integrated Child Development Services)**

Electronic Growth Monitor for infant /child facilitates digitization of targeted beneficiaries (preschool children) with respect to their Name, DOB, Gender, Category etc. Automatic, accurate and timely health measurement (i.e. weight and height) and subsequent computation of Growth grades as per WHO standards (stunting, wasting and under weight), shall ensure instant and factual nutritional status of given beneficiaries at Anganwadi level itself so as to effect meaningful Parent counselling. The total project cost is Rs.179.75 lakhs. The State Planning Commission suggests that this proposal be linked to the ongoing ICDS study by J-PAL. Therefore the proposal is not recommended separately.

20) **ISO certification, grading and accreditation of 128 AWCs (Head of Dept: Integrated Child Development Services)**

The anganwadis will be assessed on the basis of certain parameters while awarding ISO certification, including people's participation, steps initiated to deal with malnutrition, tree plantation and maintenance of records etc. With the support of UNICEF, ten blocks in ten districts were initiated with the accreditation process and the state, district and the project level staff were oriented for developing a model Anganwadi center. The various criteria /

parametres were evolved for accreditation and the same was adopted in the AWCs. The experience thus gained will be utilized for accreditation of AWCs in each of the districts. The total project cost is Rs.32.80 lakhs. The State Planning Commission has recommended the proposal. It may be replicated based on its success.

21) Strengthening of 94 AWCs as Vibrant Early Child Development centres on pilot basis in Chennai and Kancheepuram District (Head of Dept: Integrated Child Development Scheme)

The project aims to strengthen the ECCE component in 94 AWCs in the two districts Chennai (Velacherry and Little Mount) and Kancheepuram (Kundrathur and Somangalam) on pilot basis. It proposes to strengthen the Management Information System it also addresses the existing nutritional gap in moderately undernourished and severely undernourished children in the age group of 3 to 5 years by providing additional nutritional supplements. It also aims to motivate / reward the Anganwadi Worker with performance link bonus based on their performance on reducing under Nutrition. The total project cost is Rs.138.87 lakhs.

The State Planning Commission appraised the proposal in detail. The exact interventions that are required have to be discussed with ICDS as a separate measure along with the budget requirement for the year 2015-16. The Early Childhood Care and Education (ECCE) activities proposed in this project have also to be included in the J-PAL study 2015-16. Accordingly, the proposal is not considered for the year 2016-17.

22) Training 825 students under Homes of Social Defence Department (Office Management, IT skills and English Communication skills) (Head of Dept: Social Defence)

The project aims to train 825 students under Homes of Social Defence Department located across Tamil Nadu in Office Management, IT skills and English language and communication skills. The total project cost is Rs,49.50 lakhs.

The Tamil Nadu Skill Development Corporation is having enough fund for such training programme. Therefore, the State Planning Commission suggested the Department to approach the Tamil Nadu Skill Development Corporation for funding.

23) Scheme for Terminally ill persons (support to Hospices) run by Non-Governmental Organisations (Head of Dept: Social Welfare & Nutritious Meal Programme)

Hospices provide palliative care to chronically ill, terminally ill or seriously ill patients and attend to their physical emotional and spiritual needs. The project is for funding recognised hospital / nursing homes run by NGOs in all the districts of Tamil Nadu to run the Hospices for elderly. The total project cost is Rs.720.00 lakhs.

The State Planning Commission during the appraisal was surprised that this component is not being funded in the regular ongoing programme. The project has no innovation. Therefore, the State Planning Commission has **not** recommended this proposal under TANII and suggests to accommodate this under the regular ongoing programme.

24) NGO run night shelters for the elderly and homeless (Head of Dept: Social Welfare & Nutritious Meal Programme)

The project proposal at a total cost of Rs.649.69 lakhs aims to provide facility for night shelter, peer interaction, companionship and light refreshment. The State Planning Commission consider the proposal as not innovative and therefore not recommended this proposal.

Health and Family Welfare Department

Six proposals have been received from Health and Family Welfare Department for funding from the Innovative fund. After detailed discussion, three proposals are weeded out as not beneficial and three proposals are recommended as detailed below:

25) Rehabilitation of the jaw component (Head of Dept: Directorate of Medical Education)

The project aims to provide complete rehabilitation of the lost part of the upper and lower jaw which is essential for speech, mastication and appearance. The total rehabilitation facilities are not available in the Government hospital for completely replacing the lost parts of the jaw. This will be first of its kind in the Govt. sector. Poor patients suffering from benign and malignant tumours can be treated with this latest technique. The total project cost is Rs.120.84 lakhs for a period of 3 years which includes Rs.7.20 lakhs towards staff cost.

The State Planning Commission appraised the proposal in detail. The issue is very essential since for the last 50 years total reconstruction of the reset jaw was not done and therefore now with the latest facilities patients suffering from jaw tumours can be cured. Therefore, the State Planning Commission

recommended the proposal at the reduced outlay of Rs.113.64 lakhs by excluding the staff cost.

26) Teletherapy Equipment, Linear Accelerator for Radiotherapy Department in Government Thoothukudi Medical College (Head of Dept: Directorate of Medical Education)

The Oncology department is functioning in the hospital from 2010 onwards. Due to industrial pollution in the district, number of cancer patients is increasing day by day. Cancer treatment today involves comprehensive management with radiotherapy, surgery and chemotherapy. Except radiotherapy equipments, the other facilities are available with full fledged in the hospital for the past 5 years. Radio therapy is essential as an integrated component of cancer treatment. After the cancer surgery, the patients are referred to Tirunelveli Medical College for radiotherapy treatment. Hence, teletherapy equipments are required for the successful functioning of the Oncology department. The project is only towards purchase of equipments at a total cost of Rs.10.26 crores. The State Planning Commission has not recommended this proposal since no innovation involved in this.

27) Regional Eye care center in Thanjavur Medical college (TMC) campus, Thanjavur (Head of Dept: Directorate of Medical Education)

The major population of agricultural and industrial workers in the district and neighbouring districts face a lot of eye problems, serious enough to threaten their vision and livelihood. These people are referred to the one and only Regional institute of ophthalmology at Chennai. Hence there is a need for Regional Eye Care Center at Thanjavur. The Eye department is presently functioning at a more than 90 year old building at Government Raja Mirasudar Hospital, Thanjavur. The building has undergone lots of wear and tear which may not be safe. All the ophthalmology allied specialties, MRI/CT scans are

functioning at TMC campus. Hence the department needs to be shifted to Thanjavur medical college campus. As the current facilities at TMC campus is not enough to accommodate the Eye department, new block has to be constructed to give efficient eye care to the public. There is adequate space available at Medical College for the proposed building. The total project cost is Rs1673.00 lakhs. The State Planning Commission has not recommended this proposal as no innovation is involved.

28) **Establishment of 12 Emergency Care Centers (ECC) at Government Medical Institutions (Head of Dept: Tamil Nadu Health System Project)**

The first hour after the trauma is called as Golden hour. The transportation of a critical victim from the scene of accident to a higher center without any stabilization enroute may reduce the chance of the survival of the victim and also complicate the recovery process. The ECC stabilizes critical trauma patients and medical emergencies within the golden hour. The list of proposed 12 ECC locations has been furnished based on the evidence collected by the State Traffic Planning Cell. The existing infrastructure available in the GH/PHC will be utilized. Additional infrastructure required is proposed in the project.

The proposal is being appraised in detail and the view is that the proposal is against medical ethics. Accident trauma care can be done anywhere. The bitter experience of man management issue is also discussed. The Neuro surgeons are not willing to work in accident trauma care. Already the State is having 17 tertiary care facility centre under NRHM and 18 Medical College Hospitals and therefore by adding one more layer the interference is delayed further. Therefore, the State Planning Commission has not recommended this proposal.

29) Web based epidemic prone infectious diseases notification system in 12 Corporations of Tamil Nadu for prevention and control of epidemics (Head of Dept: Directorate of Public Health)

In order to ensure the availability of quality data for monitoring the trends and forecasting out breaks and policy formulation for infectious disease control programme, it is proposed to develop a customised web based epidemic prone infectious diseases reporting systems in 12 Corporations. It is stated that this robust surveillance system is proposed based on the lessons learned from the Integrated Disease Surveillance Programme (IDSP). The State Planning Commission in its meeting appraised the proposal in detail for the year 2015-16 and suggested that the main lacuna in the proposed system is that how it address "under reporting". Now the Health Department modified the proposal rectifying the lacuna in the earlier system with an outlay of Rs.598.00 lakhs.

The State Planning Commission after detailed deliberation has recommended the proposal with the reduced outlay of Rs.298.00 lakhs by excluding the components on project management units at State level and the project management units at Corporation level which can be met under the Integrated Disease Surveillance Project (IDSP) fund.

30) Establishment Community Mental Health Project at Puliampatti (Head of Dept: Directorate of Medical Education)

The people who are affected by mental health related problems, due to their lack of knowledge about mental health services tend to approach traditional / faith healers instead of consulting mental health professionals which lead the acute illness to become chronic. Therefore, in order to enhance mental health services in these areas, the Health and Family Welfare Department proposed to establish a community mental health project at Puliampatti in the nearby

St. Antony's Shrine. The total project cost is Rs.105.81 lakhs which includes Rs.40.04 lakhs towards staff cost and Rs.14.21 lakhs as organization consultancy charge to be paid to the RDTRPD trust.

The State Planning Commission appraised the project in detail. Similar proposal was already examined by the State Planning Commission for the year 2015-16 and it was considered that the proposed activities are to be taken inside the premises of the Shrine and therefore, suggested to implement the scheme on a camp based approach with a suitable evaluation component. As suggested earlier by the State Planning Commission now the proposal is resubmitted. In the revised project, the treatment clinic for mentally ill is to be started in the nearby area of the St. Antony's Church, Puliampatti where faith healing is combined with medical treatment. The State Planning Commission after detailed deliberation has decided to recommend the proposal by excluding the staff cost. Further, the payment of Rs.14.21 lakhs to be paid to the RDTRPD Trust as organization consultancy charge may be decided by the Government.

Agriculture Department

Eight proposals have been received from Agriculture Department for funding from the Innovative fund. After detailed discussion, five proposals are weeded out as not beneficial and three proposals are recommended as detailed below:

31) Promotion, Commercialisation, Post Harvest processing and industrial application of Annatto (Bixa Orellana L.) as a source of natural dye (Head of Dept: Tamil Nadu Agricultural University)

The project aims to promote the cultivation of Annatto for commercial application in the State, to develop package of practices for the other

identified dye yield plant and establish field gene banks and natural dye parks. A growing demand globally exists for eco-friendly, non toxic colorants, specifically for health sensitive application such as coloration of food and dyeing of child and clinical textiles and toys. The project envisages for large scale production of non toxic eco-friendly dye and colouring agents from Annatto and to establish model bixa dye parks. The total project cost is Rs.719.20 lakhs out of which Rs.490.20 lakhs towards recurring cost.

The project is appraised by the State Planning Commission in detail. It is informed that there is a huge industrial need for this natural dye. The question is when there is a industrial need why do Government propagate this instead of industries. It is not known whether the Pollution Control Board's clearance as a dye is necessary. After detailed deliberation the State Planning Commission agreed to fund the instrument cost and the recurring cost (excluding the staff cost) for one year only. Accordingly, the State Planning Commission recommended the proposal at a total cost of Rs.224.00 lakhs which includes Rs.115.00 lakhs towards instrument cost and Rs.109.00 lakhs towards recurring cost for one year. The other cost and the recurring cost beyond one year has to be borne by the Tamil Nadu Agricultural University.

32) Innovative interventions on Mechanisation for Transplanting Vegetable crops (Head of Dept: Tamil Nadu Agricultural University)

This proposal at a total cost of Rs.207.00 lakhs for a period of 3 years is proposed by Tamil Nadu Agricultural University. Prorray grown vegetable seedlings are already in demand for manual transplanting owing to the fact that these seedlings are grown under controlled environment. The automated portray sowing machines developed at Agricultural Machinery Research Centre (AMRC), TNAU is useful only for sowing of spherical / pelleted seeds

in pro trays. If seed pelleting technology with standardized pelleting mixture is developed through research, it may enhance the utility of automated protray sowing machine by commercial nursery growers. This machine will reduce labour, drudgery involved in the operation and cost of cultivation. Appropriate protray seeders and matching semi / automatic transplanter that are developed under this project, will be replacing existing manual methods as a package to ensure timely supply of vigorous vegetable seedlings to the vegetable growers of Tamil Nadu.

This proposal is basically developing the equipment. It is not known how this technology is going to be transferred for commercial use. Patent issue is also involved in this which is not applied so far. It is informed that the mechanism is in existence for the last 5 years but it has not reach the people. The State Planning Commission after detailed deliberation has not recommended this proposal.

33) Impact Demonstration of Innovative Ecological Engineering Pest Management Initiatives to Minimize Yield Loss due to Borer Pests in Rice, Vegetables and Pulses in Tamil Nadu (Head of Dept: Tamil Nadu Agricultural University)

The project aims at organize the farmers through participatory demonstration and training on innovative ecological engineering pest management to minimise borer pest in major food crop like rice and pulses besides horticultural crops like vegetables in Tamil Nadu. Also the project proposes to intensify further research on ecological engineering method to come out farmer friendly pest management strategies. The total project cost is Rs.246.00 lakhs. Ecological engineering (Impact-research) concept has already been done by national level institutions and similar concept has been introduced in the SBGF project on IPM model villages.

The State Planning Commission insisted for an assurance before considering the proposal that such a scheme was not implemented earlier. Accordingly, the proposal is deferred.

34) Establishment of Integrated Organic Silvopastoral models suitable for Alfisol tracts of Tamil Nadu at DARS, Chettinad (Head of Dept: Tamil Nadu Agricultural University)

The major components of the project are demonstration of dry land silvipasture models, integrating suitable animal fodder with existing plantation orchard, advocate alternate tree. The total project cost is Rs.798.00 lakhs.

After detailed deliberation the State Planning Commission agreed in principle the proposal by excluding the staff cost. However, the department has to relook the cost towards civil works and rework & resubmit.

35) Revitalization of Millets for Nutritional Security and Enhanced Productivity (Head of Dept: Tamil Nadu Agricultural University)

This innovative project proposes a Cluster approach in millet promotion through convergence of different stakeholder departments at a total cost of Rs.187.80 lakhs. The project envisages for provision of good quality seeds and enhanced productivity through effective management practices in increasing the millet production and also the farm income. Also standardisation of processing technology of Millet will be done. Though steps were taken by different departments for millet promotion, focussed attention on millet promotion through establishment of Millet clusters is yet to commence in the State. Further, mostly extension work were undertaken through agricultural extension machinery which is available at village level (AAO/AO at Block level) only.

The State Planning Commission observed that the area of cultivation of millet is growing more but under estimated. Therefore, recommended this proposal subject to the condition that an evaluation has to be made before and after its implementation.

36) Smart water saving techniques in Rice (Head of Dept: Directorate of Agriculture)

The project aims to increase the yield by saving the irrigation cost, conserving ground water and reducing the cost of fuel and power to pumped water. It is proposed to introduce a smart method of monitoring the water depth in the rice yield by using water pipe (Pani Pipe) as a simple gauge to avoid yield loss due to moisture stress. A water of 30 cm length and 10-15 cm diameter, perforated with holes on all sides inserted into the ground vertically at 5 different places of 1 ha. field allows farmers to monitor the water below the ground, decreasing the need to flood rice fields. The total project cost proposed is Rs.315.70 lakhs.

The State Planning Commission appraised the proposal in detail. The technology is to be proved to the farmers in the first instance. The state has to motivate the farmers and therefore 100% subsidy is not feasible. After detailed deliberation the State Planning Commission recommended the proposal with 50% subsidy and balance from the farmer. The State's 50% commitment is only Rs.157.85 lakhs.

37) Biological treatment of polluted Noyyal River Water downstream of Tiruppur city through constructed wetland system (Head of Dept: Tamil Nadu Agricultural University)

The Noyyal river flowing through Tiruppur city is highly polluted by dye and textile discharge and Tiruppur Corporation Sewage which makes the water is contaminated and become unfit for irrigation. The principle design criterion for

constructed wetland system includes substrate types, pollutant loading rate and retention time. It is planned to establish a constructed wetland system in Anipalayam canal as first phase, which takes water from Noyyal river to the Anipalayam tank and based on the efficiency and cost effectiveness of the treatment process, the same system will be implemented in other canals. The total project cost is Rs.357.00 lakhs. The project may be funded by the Pollution Control Board. The State Planning Commission after detailed deliberation has not recommended the proposal.

38) Remote sensing based real time information system for crop management, yield estimation and loss assessment in Tamil Nadu (Head of Dept: Tamil Nadu Agricultural University)

This project is proposed by the Tamil Nadu Agricultural University at a total cost of Rs.414.38 lakhs. The project proposes to generate quantitative remote sensing products by means of a unmanned (manual) UAV equipped with expensive thermal and narrow band multi spectral imaging sensor will be acquired over agricultural fields by obtaining thermal imagery in the 7.5-13 mum region and multispectral imagery in the 400-800-nm. It is proposed to purchase many equipments including data processing workstation, desktop computer and storage device, which are already available in TNAU. Utmost necessary machinery alone may be purchased.

The State Planning Commission informed that all the equipments that are proposed in this project are available with Anna University's Remote Sensing Agency with available access to every department. Therefore, the proposed system has to be developed as a collaborative measure with the Institute of Remote Sensing of Anna University and the State Planning Commission suggested accordingly. The proposal is not recommended.

Animal Husbandry, Dairying and Fisheries Department

Five proposals have been received from Animal Husbandry, Dairying and Fisheries Department for funding from the Innovative fund. After detailed discussion, three proposals are weeded out as not beneficial and two proposals are recommended as detailed below:

39) Nodal centre for Temple Elephants' Health and Disease Management (Head of Dept: Tamil Nadu Veterinary and Animal Sciences University)

The proposal is for establishment of "Nodal Centre for Temple Elephants" Health and Disease Management" in the Department of Wildlife Science of the Madras Veterinary Collage (TANUVAS). The proposed Nodal Centre is to develop a Computer data base for understanding treatment measures for various diseases as well as disorders in captive elephants in addition to the features related to the health diseases/disorders. The total project cost is Rs.150.00 lakh for a period of 3 years. It is stated that public visiting the temples are need to be protected against various diseases causing pathogens that affect captive temple elephants. Further, it is also stated that different parasitic and disease problems including those that spread to the public will be investigated and suitable remedial measures will be offered in this project. Spread of disease from elephants to public is cited as the public issue involved. Also, a training component for Mahoots on using smart gadget has been included as one of the project component.

The State Planning Commission has suggested that Hindu, Religious and Charitable Endowment Department is having enough fund to treat their elephant and therefore not recommended the proposal.

40) Ethno Veterinary Herbal Product (EVP) Research and development centre (Head of Dept: Tamil Nadu Veterinary and Animal Sciences University)

There are hundreds of small and many organised livestock farms in the State where farmers use only EVP for day-to-day health care of their livestock. The trend is spreading fast towards the natural way of treating livestock using herbals. EVP is a multidisciplinary activity and the first step towards organic livestock production. In this background, the Tamil Nadu Veterinary and Animal Sciences University has proposed to establish the Ethno Veterinary Herbal Product Research and Development Centre in the campus of the Veterinary University Training and Research Centre at Thanjavur at a total outlay of Rs.1477.21 lakhs which includes Rs.41.76 lakhs towards staff cost and Rs.62.50 lakhs towards construction of building.

The State Planning Commission appraised the proposal in detail. The Centre is to be established with an objective as a model ex-situ conservation of Ethno Veterinary Medicinal Plant resource and Herbal garden. It is also to collect, document, decipher and publish Ethno Veterinary Practices from palm-leaf scripts. Therefore, the State Planning Commission recommended the proposal with the reduced outlay of Rs.1372.95 lakhs after excluding the staff cost and the construction cost.

41) Establishment of Fodder Production Farm in Meikkal Purambokku Land in Madurai District (Head of Dept: Tamil Nadu Veterinary and Animal Sciences University)

The proposal of the Department of Animal Husbandry, Dairying and Fisheries for the establishment of Fodder Production farm in Meikkal Purambokku Land in Madurai District at a total cost of Rs.324.09 lakhs which includes Rs.28.80 lakhs towards staff cost. The State Planning Commission examined

the proposal in detail and recommended Rs.100.00 lakhs only towards fencing works.

42) Economic upliftment of downtrodden conventional Indigenous pig rearers by bringing them into the fold of organised and scientific pig farming. (Head of Dept: Animal Husbandry and Veterinary Services)

The Public Health menace such as Japanese Encephalitis, echinococcosis and worm load caused by conventional indigenous pig rearing by downtrodden people are some of the issue faced by the pig rearers. In order to overcome this it is proposed to introduce organised and scientific pig farming to the conventional pig rearers. The total project cost is Rs.10.79 crores.

The State Planning Commission appraised the proposal in detail. The proposed project is to tackle the issue of Japanese Encephalitis and also considerably reduce the shortage in the availability of affordable animal protein. Therefore, the State Planning Commission after detailed appraisal decided to recommend the proposal as a pilot to be implemented in Trichy District. Accordingly, the proposal is to be reworked and resubmitted.

43) Establishment of Fisheries Data Repository and Management Centre (FDRMC) under CeFiMaPP – TNFU at Chennai (Head of Dept: Tamil Nadu Fisheries University)

The Centre for Fisheries Management, Policy and Planning (CeFiMaPP) in the Tamil Nadu Fisheries University proposes to establish Fisheries Data Repository and Management Centre (FDRMC). The total outlay of Rs.832.40 lakhs for a period of 3 years. The main objective of the proposal is to pool research output generated in the University and fisheries statistics available with the State, Central and other agencies for the purpose of analysis to arrive at strategies for development of fisheries in the State. The proposed activities

in the Centre, among others, empower coastal educated fisher girls in an Unique Co-management initiative for generation of base line artisanal fisheries data in 680 marine fishing villages with regional coordinating hubs. The State Planning Commission appraised the proposal in detail and suggest to resubmit the proposal by excluding the staff cost.

Environment and Forests Department

Seven proposals have been received from Environment and Forests Department for funding from the Innovative fund. After detailed discussion, four proposals are weeded out as not beneficial and three proposals are recommended as detailed below:

44) Enhancing Managerial Efficacy in Virudhunagar Circle (Establishment of MIS with Video conference facilities) (Head of Dept: Principal Chief Conservator of Forest)

It aims for leveraging technology for enhancing the efficacy of management details of proposed interventions Instituting a Management Information System (MIS), Equipping the field staff with GPS enable Personal Digital Assistant (PDAs) with data connectivity, Online / Web presence of tech Territorial Forest Divisions, Video conferencing facility, Installation of CCTV surveillance equipment at vantage points like check posts, fish landing centres and other vulnerable places. It is proposed to implement the scheme at a cost of Rs. 63.00 lakh during 2016-17. This proposal has already been appraised by the SPC in the second round for 2015-16 and after detailed deliberation the SPC decided to recommend the surveillance aspect only. Therefore, SPC has requested the department to rework the proposal accordingly for

consideration. Based on the earlier recommendations the proposal is reworked and resubmitted. The State Planning Commission recommended the revised proposal at the total cost of Rs.63.00 lakhs. The State Planning Commission has also suggested for an independent evaluation through the institution / organisation empanelled recently by the State Planning Commission.

45) Formation of three centres of excellence in Tamil Nadu Forest Academy on (i) Man Animal Conflict, (ii) Forest fire management and climate change and (iii) Forest law (Head of Dept: Principal Chief Conservator of Forest)

Fragmentation and degradation of habitat and expanding population and urbanization is leading to frequent man-animal conflict in various states which has become a major problem and is creating unrest in the public. Man-animal conflict management technique developed in Tamil Nadu Forest Department has been appreciated on national and international level. Same is also true Forest Fire management which is crucial for preserving the bio-diversity. Similarly the forest law is an important concern due to poor rate of conviction of forest cases. With 103 years of glorious history, vast facilities, rich expertise, Tamil Nadu Forest Academy can be used more effectively. In this regard it is proposed to form Centres of Excellence on Man-animal conflict, Forest fire management & climate change and Forest law which will document and gather all the available knowledge and expertise on these three important domains and to further develop it. The financial Implication involved in formation of these centers proposed cost is Rs.25.00 lakhs.

The Vision document 2023 mention about 11 Centres of Excellence. The norms for the establishment of Centre of Excellence are being work out by Higher Education Department and therefore the State Planning Commission

suggested to contact the Tamil Nadu State Council for Higher Education and find out that the basic attributes for the Centre of Excellence. The proposal is to be reworked accordingly and resubmitted.

46) Assessment of Mean Annual Increment (MAI) & Current Annual Increment (CAI) of growing stock in Madurai Forest Division (Head of Dept: Principal Chief Conservator of Forest)

It is proposed for a Continuous study on assessment of growing stock, in Madurai Forest Division, the study will be carried out in sample plot of one hectare each of around 40 nos. It will concentrate on difference in growing stock every annum. The study will find out Mean Annual Increment and Current Annual Increment. (MCI/CAI). This sample plot shall be laid permanently with colour marking and numbers. The growth each year of the growing stock shall be taken as Mean Annual Increment (MAI) while be averaged out, over a period of 10 years to get Current Annual Increment (CAI). It is proposed to implement the scheme at a cost of Rs.12.00 lakhs. The State Planning Commission after detailed appraisal has not recommended this proposal.

47) Development of a mobile application (Tamil & English) and an online interface for Tree Plantation under various Government Schemes (Head of Dept: Principal Chief Conservator of Forest)

Trees Outside Forests (TOF) are the most important and cost effective strategy in achieving the goals like meeting the demand, poverty alleviation and increasing the tree cover percentage. To increase the tree cover, the Government has come with many missions, schemes and programmes which primarily focus on increasing the tree cover through afforestation and other plantation activities. There is a lag in the access to these repositories and the linkages. The project of developing mobile application in Tamil and English

for android phones and IOS phones and also to develop an online interface is aimed to bridge the gap between the resources and the people. The Forest Department has to play a vital role in exposing the opportunities and the exploring the unpopular trees species by using technological advancements. The State Planning Commission after detailed appraisal recommended the proposal with the outlay of Rs.18.40 lakhs.

48) Augmenting Drinking water supply to wildlife through motors energized by solar power (Head of Dept: Principal Chief Conservator of Forest)

There are large number of spotted deer and gaur in the RFs of Harur Division. As all the water resources in the RFs dries up during summer, the deer and gaurs are coming out of the RF and enter into in the nearby patta lands and villages in search of water. While coming so animals face risk from street dogs, hunters and vehicles and animals fell into the well. During 2013-14, two units of solar powered energised motor with ground level troughs have been provided in the Harur Division one in Harur RF and another one in Keel Morappur RF, After completion of work, the spotted deer and other wild animals are regularly drinking water in the troughs constructed within the RF and death of wild animals due to road accidents while crossing roads is considerably reduced, when compared to the previous years. Therefore extending this facility to the other RFs will be very much useful for providing drinking water to the wild animals in the summer season. Hence 8 units have been proposed for the year 2016-17 at a total cost of Rs.104.00 lakhs.

Two units of Solar Powered energised motor have been provided and Government orders has already been issued for the year 2013-14. Therefore, the SPC suggested any expansion has to be based on an evaluation and

scale up after that. DEAR has to evaluate and submit its report. Then the proposal may be considered later.

49) E-Learning – Interactive Awareness for School Children (Head of Dept: Environment)

It is proposed to link all the EIDC (Environmental Information Dissemination Centre) of schools to the Department of Environment's Server. As all the EIDCs are provided with related web resources to all the Centres can be facilitated through the Department of Environment Server. On green days, an online chat programme will be organized so that the students from all the EIDCs will be able to interact with the experts who will be present in the Department of Environment. The main objective of this programme is to promote Environmental Awareness among the students and to help in protecting and preserving the environment. Since online quiz for school students are also conducted in the Department of Environment website, it is planned to conduct the Interactive Online Awareness in the same website by providing additional server space as required with appointing manpower for maintaining and coordinating the programme and other related activities in the Department of Environment website. The scheme will be implemented at a total cost of Rs.49.44 lakhs. This proposal has already been appraised by the SPC in the second round for 2015-16. After detailed deliberation, the SPC considered this proposal as a creative intervention in awareness generation using modern technology and decided to recommend the recurring cost and rework the staff cost. The proposal is reworked and resubmitted based on the earlier recommendations.

The State Planning Commission has recommended this revised proposal as appraised earlier subject to the remarks that the staff cost has to be incurred on intern basis. The total outlay recommended is Rs.40.71 lakhs.

50) Awareness building on the importance of coastal habitats (Coral reefs & Seagrass beds) in the coastal villages along Gulf of Mannar and Palk Bay: An initiative to support and strengthen coastal community (Head of Dept: Environment)

Tamil Nadu has a 1076 km long coastline with unique coastal resources like coral reefs and seagrass beds in Gulf of Mannar and Palk Bay. The coral reefs and seagrass beds are lifeline to coastal people in particular traditional fishers in terms of livelihood source through fishery production. Building awareness among the coastal stakeholders in particular community, school children and media would not only help to protect the coastal habitats from further damage but also enhance the livelihood options and adaptive capability. A comprehensive protocol would be developed to make aware the three categories of stakeholders through local workshops and nature tours. The snorkelling training to school children to witness the beauty of the coral reef and seagrass beds would build a strong conservation mind among school children. The awareness among media and sign boards would create a positive impact among the general public along the coasts to protect these habitats for the benefit of local community and environment. This innovative awareness building has also indirect impact on the livelihood of traditional coastal community through fishery production. The scheme will be proposed to implement at a total cost of Rs.37.20 lakhs.

This proposal has already been appraised by the SPC in the second round for 2015-16. The SPC is of the view to ensure that this can be funded from Environment Protection fund and the cost should be reduced. Therefore SPC

has requested the department to rework the proposal accordingly for consideration. The Director of Environment has stated that funds has not been provided by the Government under EPRED Fund for the year 2015-16. However, the State Planning Commission after detailed deliberation has not recommended the proposal.

Revenue Department

Two proposals have been received from Revenue Department for funding from the Innovative fund. After detailed discussion, one proposal is weeded out as not beneficial and one proposal is recommended as detailed below:

51) Video Conferencing Facility at all the Taluk Offices and Revenue Divisional Offices with District Collectorate (Head of Dept: Commissionerate of Revenue Administration)

It is stated that linking of Taluk Office, Revenue Divisional Office with District Collector office with Video Conference Facility will enhance understanding the bottom level problems. The top level Officials could interact with the Bottom level officials. With this facility any scheme implementation will be communicated to all the officers of Revenue Department. The Village Administrative Officers being the base level Officers, it is hard to gather all of them at one place and impart training or give instructions about a scheme. Since most of the Public Grievances and schemes are implemented by the Revenue Department, a video Conference facility will enable to review the progress of all the schemes, monitor Law and Order situation at village level and Disaster management etc. The proposed Video Conferencing Facility at

all the Taluk Offices and Revenue Divisional Offices with District Collectorate at a total cost of Rs.30.64 lakhs for three years lacks innovative element.

There is no innovation in this scheme. 100% of the cost is towards machinery and equipments. As per the guidelines, office equipment would generally not be permitted if that is the sole purpose of the scheme. Therefore the proposal has not satisfied the innovation criteria. The State Planning Commission after detailed deliberation has not recommended this proposal.

52) Modernisation of Photo Zinco Press (Head of Dept: Survey and Settlement)

The existing method of printing the maps by the conventional method of photo zincography and then through Computers has become obsolete the print life of the maps is not sustainable with time and with clarity. Hence with the use of machineries with latest technology the maps will be of good quality, long life and with greater accuracy and originality. The service attitude towards the public from the past years of experience of the Photo Zinco Press of Survey Department will revolutionise through the implementation of this project. In order to functionalise the defunct Photo Zinco press, it is proposed to modernise the press through funding from the Innovative fund at a total cost of Rs. 100.00 lakhs. The State Planning Commission recommended the proposal considering the acute need to revive the press and to offer the service to the public effectively.

School Education Department

Ten proposals have been received from School Education Department for funding from the Innovative fund. After detailed discussion, all proposals are recommended as detailed below:

**53) Early Intervention Centers for Children with Special Needs (CWSN)
(Head of Dept: Sarva Shiksha Abhiyan)**

Every child with Special Needs is provided meaningful and quality education and therefore SSA has adopted as zero exclusion policy. No child having special needs should be deprived of the right to education and taught in an environment, which is best, suited to his / her learning needs. The ultimate aim is to mainstream all CWSN in neighbourhood schools. Already, school readiness programme is functioning in 378 schools and now the proposal is for replicating it in another 85 identified schools at a total project cost of Rs.578.85 lakhs.

The State Planning Commission after detailed deliberation has recommended the proposal.

54) Setting up of Satellite Interactive Terminals (SIT's) for EDUSAT (Head of Dept: Sarva Shiksha Abhiyan)

The proposal of Sarva Shiksha Abhiyan (SSA) is for the Setting up of SIT's for EDUSAT cost is Rs.397.62 lakh. The installation of Satellite Interactive Terminals (SIT's) is useful to teachers can be trained directly by key resource persons, which would enable effective and clear reception of concepts by teachers/ Monitoring of training Programmes would also become more effective. The State Planning Commission after detailed appraisal has recommended the proposal for funding under TANII.

55) Installation of Electrical Incinerator in all 518 Girls' Government High and Higher Secondary School. (Head of Dept: Rashtriya Madhyamik Shiksha Abhiyan)

In both rural and urban areas, with increasing sanitation coverage in all schools, the disposal of waste is becoming a serious problem. Both biodegradable and non biodegradable waste can prove hazardous for health, if proper and complete disposal is not done. In schools especially, disposal of sanitary cloth and sanitary napkins in girls' toilets is big problem. It affects the proper functioning of the toilets when disposed in the toilet and serious health problems if thrown out in garbage dumps or in the open. The total project cost proposed is Rs.241.39 lakhs.

The State Planning Commission appraised the proposal in detail. The Electrical incinerator incinerates wastes like soiled cloth, cotton waste, sanitary napkins, paper towels etc. The waste gets converted into ash and other non-hazardous residues. The incinerator is user friendly and therefore suggested to do it in phases. The State Planning Commission recommended the proposal as a pilot to be implemented in 100 schools with a reduced outlay of Rs.46.60 lakhs.

56) Construction of Bio-Digest Toilet in II phase Model Schools in 13 Districts. (Head of Dept: Rashtriya Madhyamik Shiksha Abhiyan)

Bio digester technology has been developed for resolving the problems of un-decomposed human waste. The innovation degrades and converts the human waste into usable water and gases in an eco-friendly manner. The generated gas can be utilised for energy/cooking and water for irrigation purposes. Bio digest toilet has already been sanctioned to 18 model schools through TANII programme during the year 2015-16. Now, it is proposed to

establish the bio-digest toilet in another 26 model schools at a total cost of Rs.37.44 lakhs for a period of 3 years.

Bio-digest toilets are free from the unpleasant odours emitted from the conventional toilets and the effluent is free from off odour and solid waste. The State Planning Commission after detailed deliberation has recommended the proposal to be implemented in 26 model schools at a total cost of Rs.37.44 lakhs.

57) Transformation of Toilets into Child friendly (Head of Dept: Directorate of Elementary Education)

Toilets are basically designed for adult and hence most of the accessories are not child friendly. The usage of toilets by children at School level still remain as a greater challenge due to unattractive ambience, lack of child friendly adaptation & design and poorly maintained toilets. The situation can be changed if the toilets are made child friendly. Therefore with the objective to increase the usage of toilets by the children by enhancing the ambience, providing child friendly accessories & adaptation and also to inculcate health and hygiene habits among children the project is proposed at a total cost of Rs.171.00 lakhs to be implemented in 3 phases i.e. Five Schools in each District in Phase-I, Another five schools in each District in Phase –II and five more schools in each district in Phase-III.

The combination of good facilities, correct behavioural practices and education can have positive impact on the health and hygiene condition of children and therefore the State Planning Commission recommended the proposal for funding under TANII at an outlay of Rs.171.00 lakhs.

58) Strengthening value education by establishing Story Corners in Primary Schools (Head of Dept: Directorate of Elementary Education)

Fostering values in school students needs to be seen as an investment in building the foundation for lifelong learning and promoting human excellence. The capacity to listen, patience, endurance, cooperation, team work, positive attitude towards study, work and life are the hallmarks of a good student or a person. So values, in fact, promote both academic as well as human excellence. The proposal of Directorate of Elementary Education (DEE) is for the Strengthening value education by establishing Story Corners in Primary and Middle Schools in Tamil Nadu at the total project cost of Rs.121.75 lakh. Value education, despite many efforts, has taken the back seat due to a greater emphasis on academics by both parents and schools. In schools, it is important to nurture values consciously among children through various strategies. The State Planning Commission has therefore recommended the proposal at a total cost of Rs.121.75 lakhs.

59) Provisions to enhance “Project based Learning” (Head of Dept: Directorate of Elementary Education)

The aim of Project Based Learning is to move away from memory based rote learning system to analytical – critical enabling system by providing a platform in which children learn higher order thinking skills, inquiry processes by doing projects. Learning science concept with better understanding and to develop scientific attitude and temperament are the main objectives of the project. The total project cost is Rs.154.00 lakhs for a period of 3 years to be implemented in 5 selected Panchayat Union Middle School in each district as a pilot.

The project based learning empowers the learners to pursue content knowledge on their own through scientific processes and demonstrate their new understanding through a variety of presentation mode and as a result children acquire independent learning skills, which are required for their success in higher education. Therefore the State Planning Commission recommended the proposal at the total outlay of Rs.154.00 lakhs for a period of 3 years.

60) Setting up of smart class using all in one ICT Technology in select schools in the State (Head of Dept: Directorate of School Education)

It is natural for students to get focused on marks and in any case, marks do not help students to improve. Students attach great value to constructive and meaningful feedback. If provided timely with the hints of how to improve. Clues on how to improve, provide timely and precise feedback and stretch them gently will give them a sense of achievement. All-in-One ICT Kit combines a hi-tech projector with a PC, a DVD writer, a TV tuner, in-built speakers, a 500 GB HDD, 3G-internet, a wireless keyboard and a mouse. The hi-tech innovations built into one unit, the Kit remains a compact teaching aid designed to enable a teacher to focus on teaching rather than technology. At the touch of a button the teacher can toggle between multiple media like PC, TV and Internet to bring about an immersive classroom experience to the students. The total project cost is Rs.64.06 lakhs.

The School Education Department over the years in partnership with SCERT has evolved numerous digital content with respect to multimedia images, videos, on VI-XII curriculum. When these multimedia images and digital content are added in addition to the regular textbook, this will help students

not only to participate effectively in classroom teaching-learning processes but will help them to acquire clarity on the subject learnt / taught, besides helping them to score high marks in Public Examinations. Therefore, the State Planning Commission after detailed appraisal has recommended the proposal.

61) Model Adult Education Centres (MAEC) in two Districts (Krishnagiri & Thiruppur) (Head of Dept: Directorate of School Education)

It is proposed to upgrade 10 Adult Education Centres as Model Adult Education Centres (MAEC)'s in Krishnagiri and Thiruppur districts which will be provided and equipped with computers, pre-loaded softwares, printer, projector, LCD Television, DVD player, Public Address System, Inverter, Fan, White Board and water cooler at a total cost of Rs.25.00 lakhs.

Model Adult Education Centres help in improving the grasping capacity of the learners in the centres, inform and create awareness among adults about technology based learning in non-formal education, facilitate and motivate the adults to succeed in their next level of learning, and ensure the quality of non-formal adult education and therefore considering the advantage of Model Adult Education Centres the State Planning Commission recommended the project.

62) Enhancing Learning through Image Recognition Application (IRA) Technology. (Head of Dept: State Council of Education Research and Training)

Image Recognition Application (IRA) technology is the latest in mobile Technology and emerging area where IRA and education can be combined to make teaching and learning more appealing and real. This would enable learners to make use of IRA for their learning process through their existing

textbooks. The total cost of the project is Rs.453.60 lakh. It contains Development of Digital Content 2D / Video, Development and Testing of APP, Rent for Cloud, Space for Hosting the Contents, Recording CD's, Multimedia kit and Dissemination, Consultancy for 3D Digital Content Preparation. The State Planning Commission after detailed deliberation has recommended the proposal.

Tourism, Culture and Religious Endowment Department

Four proposals have been received from Tourism, Culture and Religious Endowment Department for funding from the Innovative fund. After detailed discussion, two proposals are weeded out as not beneficial and two proposals are recommended as detailed below:

63) Familiarization Marketing Tour (FAM) for all important TV Channels in India (Head of Dept: Tourism)

Tamil Nadu Tourism proposes to market the tourism wealth of Tamil Nadu through the digital media for aggressive tourism promotion. It is therefore, proposes to invite all the important TV Channels in India like CNN, IBN, NDTV etc. including the regional TV channels and the total project cost is Rs.23.00 lakhs.

The State Planning Commission appraised the proposal. Tourism advertising is an ongoing project and the department can do it from the state fund. The Tamil Nadu Tourism Development Corporation Ltd. has adequate fund under its control and nothing innovative in this proposal. The State Planning Commission has not recommended this proposal.

64) Familiarization Marketing Tour (FAM) for Students of Film Institute. (Head of Dept: Tourism)

The Tamil Nadu Tourism proposes to market the tourism wealth of Tamil Nadu through the students of Chennai Film Institute for aggressive tourism promotion and the total project cost is Rs.10.00 lakhs.

The State Planning Commission appraised the proposal. Tourism marketing is an ongoing project and the Tamil Nadu Tourism Development Corporation Ltd. has adequate fund under its control and nothing innovative in this proposal. The State Planning Commission has not recommended this proposal.

65) Publication of Epigraphy books titled Tamil Nadu inscription Volume-IX,X,XI & XII. (Head of Dept: Archaeology)

Tamil Nadu has larger number of inscriptions other than any state of India. It is estimated that there are approximately 25,000 inscriptions in Tamil Nadu. These inscriptions are found mainly in temple walls and also in rocks, tanks and ponds in remote villages all over the state. Department of Archaeology has been publishing the contents of these inscriptions in book form. So far, 6605 inscriptions were published in 46 volumes. Therefore, in the same series, it is proposed to publish the selected inscriptions as a book on "Tamil Nadu Inscriptions Vol-IX, X,XI & XII at a total cost of Rs.10.00 lakhs under the new Tamil Nadu Innovative Initiative Scheme.

The State Planning Commission appraised the proposal in detail. Inscriptions are one of the main primary source to rewrite the political, socio-economic history of any country or land. The inscriptions published so far beneficial to Archaeology and History students, research scholars and the common public

alike. Therefore, the State Planning Commission recommended the proposal at a total outlay of Rs.10.00 lakhs.

66) Preserving Heritage Buildings, Light & Sound show in Dhanushkodi. (Head of Dept: Tourism Development Corporation)

The project proposal at a total outlay of Rs.300.12 lakhs will help in preservation the Heritage and create livelihood opportunities for the local community and will be an initiation to the other improvement and enhancement activities inside the island. The State Planning Commission after detailed deliberation has recommended the proposal on 50:50 basis since the Tourism Development Corporation has enough fund to meet this project cost. The 50% state's contribution is Rs.150.06 lakhs.

Planning, Development and Special Initiatives Department

Six proposals have been received from Planning, Development and Special Initiatives Department for funding from the Innovative fund. After detailed discussion, all proposals are recommended as detailed below:

67) Digitization and Retrieval system (Head of Dept: Economics & Statistics)

The Department of Economics and Statistics conducts various survey and studies to provide required data to the Government enabling in planning and to take policy decisions. Therefore, various reports/ publications have been brought out for earlier years. Such historical data are available only as hard copies and not in digital format. To preserve the historical data / reports/ publications in digital format and to use them along with the current data for

analytical purposes, scanning and digital imaging of physical documents becomes vital and an urgent need of this department.

The State Planning Commission appraised the proposal in detail. The department of Economics and Statistics, being the Nodal Agency for coordinating statistical activities for both State and Centre, collects and compiles data relating to various sectors of the economy of the State. Therefore, considering reduced physical space requirement for preservation, the State Planning Commission recommended the proposal at a total cost of Rs.16.50 lakhs for a period of three years.

68) Dynamic Data Visualization and Interactive System (Head of Dept: Economics & Statistics)

It becomes increasingly difficult for the data provider to present data in a way that stands out from the mass of competing data streams. Therefore, one of the best ways to get the message across is to use a visualisation to quickly draw attention to the key messages, and by presenting data visually. Therefore, the department of Economics and Statistics has proposed the Dynamic Data Visualisation and Interactive System for funding under TANII at a total cost of Rs.47.50 lakhs.

The State Planning Commission appraised the proposal in detail. A huge volume of data digitized, and therefore visual analytics and interactive system becomes essential for supporting decision making. The State Planning Commission recommended the proposal at a total outlay of Rs.47.50 lakhs.

69) Formation of Analytical unit and Publication Unit (Head of Dept: Economics & Statistics)

The project at a total outlay of Rs.28.30 lakhs proposed under TANII by the Department of Economics and Statistics is for Formation of Analytical and

Publication unit. The objective of the proposal is to avoid delay in timely publication on monthly, quarterly, annually and quinquennial reports.

The State Planning Commission appraised and considered the proposal as essential to undertake all activities relating to publication and printing of all reports at State level and therefore recommended the proposal.

70) Strengthening of the Existing Library (Head of Dept: Economics & Statistics)

Reference books/materials available as of now in the existing library are not adequate to support the latest development in data processing, data base management, data analytics etc., Therefore to cope with the latest developments and to facilitate the enhancement of knowledge in the above said fields and the Department of Economics and Statistics has proposed to purchase the latest publications/books/ materials by availing the fund from TANII at a total cost of Rs.3.00 lakhs.

The State Planning Commission appraised the proposal. Strengthening the existing library is essential to support the latest development in data processing, data base management, data analytics, etc. which are the core functions of the Department of Economics and Statistics. Therefore, State Planning Commission recommended the proposal at a total cost of Rs.3.00 lakhs.

71) Capacity building in Analytical capability and advanced statistical packages (Head of Dept: Economics & Statistics)

The Department of Economics and Statistics is having an exclusive training Institute called "Tamil Nadu State Statistical Training Institute". The department has decided to improve the infrastructure facilities of the institute

through Innovation fund at a total outlay of Rs.73.52 lakhs for a period of three years.

The State Planning Commission appraised the proposal. Statistical analysis, which are complex in nature, are easily analysed by using advance statistical packages like SPSS, SAS, MatStat, Statwing, Statistica, etc. by providing intensive training. The State Planning Commission recommended the proposal.

72) E- Evaluation system (Head of Dept: Evaluation and Applied Research)

The Department of Evaluation and Applied Research is doing various types of Evaluation studies covering all the schemes implemented by State and Central Government. The department is in the course of shifting its data collection from conventional method to the latest electronic mode. The department has therefore propose to develop a dedicated website through funding from TANII at a total cost of Rs.101.65 lakhs which includes staff cost of Rs.15.88 lakhs and Rs.23.31 lakhs for centralised Air Conditioner facilities.

The State Planning Commission appraised the proposal. The proposal enables direct access of data from the headquarters for fast data retrieval and interpretation in tandem to the process of data collection. The State Planning Commission after detailed deliberation has recommended the proposal with reduced outlay of Rs.62.46 lakhs after excluding the staff cost and cost towards the provision of centralised Air Conditioner.

III) The details of the schemes recommended and not recommended by the State Planning Commission subject to the remarks indicated in para 2 (SI.Nos.1 to 72) has been given as Annexure I & Annexure II to this minutes. The

Government is requested to sanction the implementation of the schemes as recommended by the State Planning Commission as in Annexure-I duly following the procedure prescribed in G.O.Ms.No.124/PD & SI Department, dated: 24.10.2014. Government after approval may consider to issue a detailed order for the schemes sanctioned, so that the order will indicate all the scheme details like period of funding, staff component, implementing agency mandatory/statutory approvals required to be obtained the specific innovation of the project, the public issue to be addressed by the project etc. The abstract of the appraisal is as follows:

Abstract

Details	I year	II Year	III Year	Total
	(Rs. in lakhs)			
Total Allocation for the year 2016-17				15000.00
Recommended outlay (First Round)	5506.14	945.90	530.47	6982.51
Balance available				8017.49

Santha Sheela Nair
Vice Chairman
State Planning Commission

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Head of Division
(Plan Co-ordination)