INTRODUCTION OF APPROPRIATE TECHNOLOGY PROGRAMME (IATP)

Technology Initiation Programme (TIP)

A. Objectives :

1. To put an effort to initiate the application of appropriate technologies for socio-economic development of the State, particularly for improving the living condition of the people in the society.
2. To provide an opportunity to the people at the grass-root level to be exposed to various societal technologies which could be applied in different aspects of their day-to-day life for all round improvement of the quality of life.
3. To enable the people in the society to handle themselves various appropriate technologies which could benefit them.
4. To expose the unemployed youths to various scopes for employment generation through Science & Technology.

B. Description:

This programme falls under the major programme Introduction of Appropriate Technology Programme (IATP). In this programme, intervention of Science & Technology in the Society/particularly in the rural sector is being focussed by the Introduction of Appropriate Technologies. These technologies are based on known Scientific principles which have been modified through field testing in order to suit the local conditions, local needs, culture and traditional ways of the people and which have a potential for improving the day-to-day life of the people, thereby uplifting their living conditions-economically, physically and socially, technologies which are eco-friendly, people friendly and environmentally-friendly as well as sustainable in nature by using locally available materials and manpower are propagated.

These technologies can be grouped under the following categories like:

(i) Energy -	(i) Improved Chulha (ii) Solar LED Home Lighting (iii) Low-cost Cold Storage (iv) Biomass Drier (v) Charcoal Making & Briquetting (vi) Low-Cost Oven
(ii) Housing -	(i) Stabilised Mud Block (ii) Cement Brick
(iii) Sanitation-	(i) Low-cost Toilet (Twin Pit) (ii) Low-cost Water Filter (Terafil)
(iv) Water Supply-	(i) Roof-top Rain Water Harvesting (ii) Pedal Pump (iii) Hydraulic Ram Pump

(v) Organic Composting & Post Harvesting Technology -	(i) Organic Composting (ii) Low-cost Cold Storage (iii) Paddy Dehusker
(vi) Waste Re-cycling	(i) Waste Paper Re-cycling (ii) Leaf Plate Making (iii) Grey Water Re-cycling

Implementation of the above technologies in the past have been carried out satisfactorily with the introduction of new technologies like Solar LED Home Lighting, Charcoal making and Briquetting and Pedal Pump technology. Also, with the new modifications being made in Rain Water Harvesting by using poly tanks instead of cemented tanks and also by using additional poly earth tanks to store surplus water and Low Cost Water Filter technologies, the programme has had an impact especially in areas where electric power is not accessible and in water scarcity areas, and efforts are being made from time to time by the Council to reach out more villages especially remote villages located in the State.

Technology Initiation Programme (TIP) comprises of the following scheme:

Technology Initiation Camp (TIC): The scheme will be implemented targeting people at the grass root level, and to be conducted at the block level. The following technologies are being taken up:

1. Stabilized Mud Block
2. Improved Chulha
3. Low Cost Sanitation
4. Pedal pumps
5. Solar LED Home lighting
6. Rain Water Harvesting

It is proposed that a five days Demonstration-cum-Training will be covered under the TIC.

A one day demonstration camp will be conducted using relevant machines/equipments/ photographs, etc. which will be displayed and explain to the people.

The demonstration will be followed by analysis of the requirement, the interest of the participants representing the different villages, also the feasibility of the technology and available resources.

Based on the above analysis, 30 participants (approx) will be taken up and a 4 days hands-on training will be imparted subsequently. Further as the outcome of the training, a technology demonstration unit will be installed and hand over to the concerned Block office.

The above scheme will be implemented at the Block-level targeting the grass root people by consulting the BDO and Local durbars.

Interested individuals/groups/local NGOs, etc. may send their application in plain paper to the Council.

Installation Of Technology Demonstration Units (ITDU)

A. Objectives :

(i) To demonstrate effectively the usefulness of various appropriate technologies which have successfully been experimented in the State.

(ii) To demonstrate the effectiveness of appropriate technologies for socio-economic development, particularly for improving the living condition of the people in the society.

(iii) To popularise throughout the State the technologies which have successfully been tried-out in the past.

B. Description :

This Scheme falls under the major Programme-Introduction of Appropriate Technology Programme (IATP), under this Programme, successfully experimented technologies were demonstrated to the people by installation of demonstration units at the sites selected taking into consideration the needs and requirements of the people/villagers of a particular area. Installations of the units were implemented in consultation with S&T oriented NGO's/Local Durbars assisting the State S&T Council for promoting of Science & Technology. Demonstration Units were installed not only in rural areas but also in urban areas serving the purpose for usage by a particular community like in Educational Institutes/Government Institutes/Social Institutes, etc. Installation of the units also serves the objective of popularising Science & Technology in the State. Apart from the installation, distribution of specific equipments and machineries on trial basis have proved to be significant in promotion and refining of the application of a particular technology.

Technologies like Improved Chulha (family size & community), Solar LED Home-Lighting, Low-Cost Oven, Charcoal Making & Briquetting, Stabilised Mud Block, Low-Cost Sanitation (family & community), Low-Cost Water Filter (domestic & community), Rain Water Harvesting (family & community), Pedal Pump, Hydraulic Ram Pump, Organic Composting and Leaf Plate Making, were implemented. Demand of the high priced of equipments and machineries like Solar LED Home Lighting, Stabilised Mud Block Machine, Low-cost Oven, etc. constantly rises for which distribution may be given in the subsidised rate. The implementation of the mentioned technologies have been successful and encouraging results were received by the members of the public who are approaching the Council for the above technologies.