



KERALA IRRIGATION INFRASTRUCTURE  
DEVELOPMENT CORPORATION LIMITED  
(A Government of Kerala Undertaking)  
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**Applications are invited from the residents of Thiruvananthapuram Corporation through residence associations for participating in the implementation of the Urban Environment Improvement Project in the selected households of Thiruvananthapuram Corporation.**

**Project summary :-**

Urban environment Improvement project proposed by Environment Department is an initiative towards establishing a self sustained miniature of our ecosystem in every household of Trivandrum corporation. The key concepts that has been perceived for setting up these micro ecology hubs are

- Waste to fuel (Biogas)
- Space to life ( roof garden , aquariums, poultry)
- Technology for economy ( Drip irrigation, grow bags, fertilizers)

Under the first phase of the project 800 houses will be identified as per the guidelines set out by the Environment department, for which applications are invited from interested beneficiaries who are residents of Thiruvananthapuram Corporation.

As part of this project the Government proposes to make the selected house hold environment friendly with vegetable cultivation on roof supported with micro irrigation and organic inputs, assisting in growing medicinal plants, tubers, fruit plants, spices and flowering plants, setting up of bio degrader for solid waste management, bio gas, water harvesting, grey water collection tank, vermin compost, mushroom unit, roof top, ornamental and back yard fisheries and poultry unit. Asokam and Sandal wood tree saplings will be distributed free of cost on demand. As part of nutritional security of the

households it is proposed to provide grow bags with Brinjal, Tomato, Green chily, ladies finger, Amaranthus, Bitter gourd, Yard long bean, Palak, Coriander, Snake gourd apart from fruits, tubers etc as mentioned above

In order to subscribe to the project, beneficiaries must opt for a basic package which includes items given under table A. Those beneficiaries who are interested in implementing the full package will be provided with items under Table B in addition to the basic package. Basic package is compulsory whereas items under table B can be handpicked.

	<b>Table A</b>	Amount in Rs.
1	<ul style="list-style-type: none"> <li>• Supply of 25 nos grow bags with seeds etc complete for rooftop cultivation.</li> <li>• Organic inputs(biocontrol agents like Trichoderm, PPGR mix 2, Pseudomonas) and organic plant health products( Neem oil, Beavaria, Tobacco, Pheromone trap)</li> <li>• Basic tools ( sprayer, plastic rope, pvc pipe 5cm dia, spade , hand raker, kurpee,) and rodent trap</li> <li>• Tubers :- chemb, chena (qajendra)</li> <li>• Spices:- Ginger, Bush pepper</li> <li>• Fruits:- Banana, Papaya, Jamba &amp; passion fruit.</li> <li>• Vegetables:- Curry leaves, Muringa, sauhridacheera</li> <li>• Medicinal Plants:- Kattarvazha, panikoorka, Keezharnelli, Tulsi</li> <li>• Ornamental plants:- nandyarvattam, pichi, mulla</li> </ul>	10,000
2	<ul style="list-style-type: none"> <li>• Providing drip and / or sprinkler irrigation for plants (25nos) on roof top with drippers, timers etc</li> </ul>	
3	<ul style="list-style-type: none"> <li>• Waste management (Bio De-grader)</li> </ul>	

The Government will be subsidizing seventy percent of the expenses for the implementation of the above components on the selected households.

The selected beneficiary shall undertake to implement the basic package of 25 growbags with saplings implanted in it, micro irrigation with timer installed at the roof top to support cultivation in these growbags, organic inputs, medicinal plants, tubers, fruit plants, spices and flowering plants, and bio degrader . The basic package is estimated to cost Rs. 10,000.00 with a Government subsidy of Rs. 7,000.00 and beneficiary contribution of Rs. 3,000.00.

The beneficiary who opts for the basic package will have the option to opt for more components like bio gas, water harvesting, grey water collection tank, vermin compost, mushroom unit, roof top, ornamental and back yard fisheries and poultry unit with a Government subsidy of seventy percent of the actual cost. The maximum ceiling of Government subsidy to each beneficiary will be limited to Rs. 32,200.00.

<b>Table B</b>		
Sl. No.	Item	Amount in Rs.
1	Bioqas (0.75 ton) with cow dunq	15000
2	Rainwater harvesting with a base PVC tank of 750 liter for collection of rain water from roof top with connections.	5250
3	Grey water collection tank of 100 litre for collection of grey water from washbasin, sink etc for irrigation to roof top of house holds.	10500
4	Vermicompost	250
5	Mushroom	500
6	Poultry	4500
	<b>Total</b>	<b>36000</b>

The total cost of supplementary package is Rs 36000/- . For this 30% of beneficiary contribution is required i.e. only Rs 10,500 has to be paid by those opting for this package

Apart from the basic package (Table A) and supplementary package (Table B), another component on fisheries is also included separately. Those beneficiaries interested to implement fisheries component should indicate their willingness separately. The details of fisheries components are given below.

### Fisheries component

**TABLE C**

SI. No.	Details	Cost of Component including installation in Rs.	Beneficiary contribution in Rs.	Subsidy amount in Rs.
	<b>Fisheries Component</b>			
1	Roof top Fish tank with PVC open tank of 1750 litres with 6 pairs of fish seedlings (Karimeen or grass harp) with seed and medicine for three month.	10,000.00	3000	7000
2	Ornamental fish (2 pairs), 2ft x 1ft x 1 V2 ft size aquarium, stand, aerator, aquatic plant and feed for one month.	5,000.00	1500	3500
3.	Backyard fisheries with ferrocement tank of 20m <sup>2</sup> with 90 cm height to cultivate voraciously waste eating edible variety of fishes as to suitability	51,000.00	28800	25200

The success of this magnanimous effort from the government lies in the co-ordination among the implementing agencies and the beneficiaries and more over it will be viewed as a head start to different projects which are in the pipeline, that have been conceptualized for the betterment of the place that we call, our nation.

For this applications are invited from the residents of Thiruvananthapuram Corporation for participating in the implementation of the Urban Environment Improvement Project in the selected households of Thiruvananthapuram Corporation. Applications in plain paper addressed to the Managing Director, Kerala Irrigation Infrastructure Development Corporation Ltd, Vasanth Vihar Gardens, Kumarapuram, Medical College P O, Thiruvananthapuram-695011 shall reach the office of Kerala Irrigation Infrastructure Development Corporation Ltd on or before 25<sup>th</sup> January 2014. Preference will be given to applications of a minimum 20 beneficiaries from a single residence association. It is likely to select 300 residence Associations wherein the beneficiaries shall be selected on the basis of spatial distribution.

**Specific conditions**

- Beneficiaries should contribute 30% of the cost i.e. In the case of beneficiaries interested in implementing the basic package of Rs 10000, Rs 3000 has to be paid.
- Basic package is compulsory for all beneficiaries
- For beneficiaries opting for full package Rs 13800 has to be paid, which is 30% of total cost. For those who are already having any of the components under the full package corresponding reduction in cost is possible as indicated in table B and C.
- The payments have to be made as cash at the office of MD, KIIDC, Vasanth vihar gardens, Kumarapuram, Thiruvananthapuram. Cash receipts should be collected correspondingly.
- Preference will be given for implementation through residents associations and it is desirable that applications are grouped in batches of at least 20 beneficiaries from each residents association.

- The selection of beneficiaries as well as residents association will be done by an expert committee
- The support of NGOs for regular, preferably fortnightly visit will be arranged as per need.
- Beneficiary should keep a diary on the activities done as part of the project.
- The project will be implemented in one year in a phased manner at 800 households. Initially it is planned to be implemented in 100 households as a model.
- Training will be arranged for the beneficiaries depending on their requirements, either at a research station or in model farm households.

#### **Other benefits**

- Need based technical support and labour support will be provided towards the end of the project based on availability
- A general service support will be provided through residents associations on priority basis in the second phase after establishing 50% of the target
- Regarding installation of Biogas plants as part of the project, arrangement has been made for supply of the same through Edapazhanji service co-operative society with service support. The beneficiaries interested in getting this installed through other agencies should indicate their preferences during field survey of the household.

#### **Establishment and installation of items under the project**

The technical unit will establish the micro irrigation units for 25 grow bags on the terrace and will help in placing other plants mentioned in the tables on

the roof or premises of the residential building under the base package. For supplementary package and fisheries component separate arrangements will be made for installation and support.

MANAGING DIRECTOR