

RESEARCH AND TRAINING INSTITUTE FOR THE DEVELOPMENT OF KATCHI ABADI

**ANNUAL
PROGRESS
REPORT
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RESEARCH AND TRAINING INSTITUTE FOR THE DEVELOPMENT OF KATCHI ABADI
Plot No. St-4, Sector 5/A, Qasba Township, Manghopir Road, Karachi, Pakistan

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MESSAGE FROM HEAD

“RESEARCH AND TRAINING INSTITUTE IS COMMITTED TO PROVIDE THE POOR WITH SUSTAINABLE SOLUTIONS TO LOCAL DEVELOPMENT PROBLEMS. WE CONTINUE TO PROMOTE FULL COMMUNITY PARTICIPATION IN THE DEVELOPMENT PROCESS SO THAT THE SPIRIT OF SELF-HELP IS CREATED. THIS WE BELIEVE IS THE ONLY WAY TO ACHIEVE BETTER LIVING CONDITIONS.”

ORGANIZATIONAL INTRODUCTION

Orangi Pilot Project (OPP) was set up in 1980 by the renowned Social Scientist Dr. Akhtar Hameed Khan to engender, among the poor, in the vast informal settlements of Pakistan, the spirit of acquiring housing, sanitation, clean water, education, health, food security, and livelihood through a community based approach. The Organization began its work in Orangi which at the time, with a population of 0.8 million, was considered Asia's largest squatter settlement.

The first self-built model, the Low Cost Sanitation Model, evolved from intense research and dialogue with the residents by Architect Perween Rahman who joined OPP in 1982. The residents were provided the complete design with details of quantity of material and estimation of cost based on local market rates. The community mobilized to collect the money required to procure pipes, bricks, cement et al and in actually digging trenches, laying the lines, constructing manholes and ultimately connecting the indoor latrines to the disposal pipes. The lane, with an average of 20 houses became the unit of organization in constructing the primary system.

While working on the primary system OPP also facilitated the residents in lobbying with the government to enable the lane to be connected to the secondary disposal lines, mains and treatment plants. OPP provided the government low cost designs of secondary and mains for the construction around Orangi. Thus was born the perfect People-Government partnership which carried out what OPP called Component Sharing Development. This meant that People invested in and constructed the Internals i.e. the primaries including latrines and the Government invested in and constructed the Externals i.e. secondary, mains etc.

This transaction of OPP's Low Cost Models through Component Sharing was widely accepted throughout Pakistan as a viable development strategy for low income settlements.

In 1987 OPP was divided into four sections. OPP Research and Training Institute (OPP-RTI) with Perween as its Director carried out Sanitation, Water, Sketching/Drawing and Youth Training Programs.

OPP-RTI continues to work with both the government and the people, providing both partners with implementable designs; to the former for Externals, and the later for Internals. It gives them estimates and eventually monitors construction of the sewage and water projects.

OPP-RTI does not fund construction. It teaches people to do so through building their capacity by giving them a low cost design, training in Sketching/Drawing, construction, and overseeing and guiding the implementation.

OPP-RTI designed systems have borne the test of time as lines laid in 1982 still function.

The demonstration of the impact of the program lies in the fact that that now Orangi is a thriving township housing 2.3 million people which constitutes 10 per cent of Karachi's population.

Replication of the model continues all over Pakistan where OPPRTI works with local organizations representing the people in tandem with Local Governments.

These are available to students, development workers all over the world.

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Thematic Areas of the organization:

- 1. Low Cost Water and Sanitation Programs**
- 2. Support to Schools - Teacher Training, overseeing proper water and sanitation facilities, kitchen gardening training, and supporting school libraries.**
- 3. Youth training Initiative - Technical Training in Design and Estimation of Costs of Low Cost Community Based Sewerage and Water facilities, computer Literacy.**
- 4. House Improvement on self-help basis for proper ventilation, sewage disposal, water storage, proper roofing etc.**
- 5. Internship Programs for University Students in Understanding Low Income Settlement Development.**
- 6. Community Based Development Training For Students.**

Awards & Achievements

OPP-RTI's development methodology is taught in Universities in both the North and South Massachusetts Institute Of Technology USA, soon after Perween's assassination in 2013, held a two-day seminar titled, Orangi Pilot Project and the Legacy of Perween Rahman.

Perween Rahman was a member of the Oslo Water Academy.

OPP-RTI has won the UN-Habitat twice.

Habitat-Norway held a seven city tour in October 2018, to highlight OPP's development methodology and Perween's role in its annual Urban October event. Events were held in universities in Kristians, Trondheim, and with municipal and civic groups in Bergen, Haugusand, Arundel, Oslo, and Stavanger.

The World Urban Forum to be held in February 2020 is to hold a special session on OPP-RTI and Perween Rahman. This session has been organized by Habitat Norway and alongside OPP-RTI will be representatives of Slum Dwellers International, Asian Coalition for Housing Needs, etc.

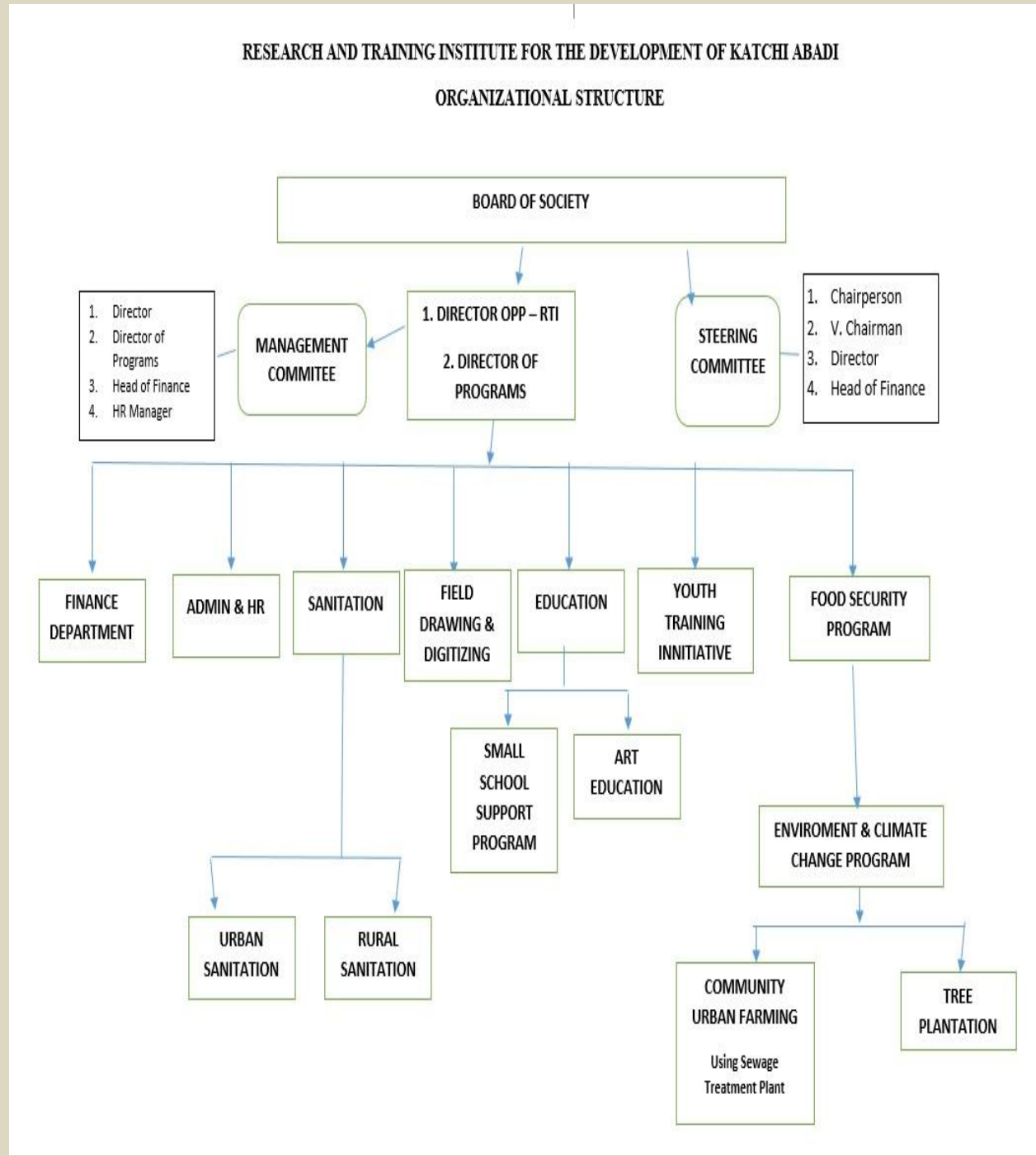
The Bangkok based Asian Coalition of Housing Needs has instituted a Perween Rahman Fellowship program.

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List of Board Members

S. No	Full Name of Board's Members	Designation	Gender	Nationality
1.	Aquila ismail	Chairperson	Female	Pakistani
2.	Mr Anwar Rashid	Vice Chairman	Male	Pakistani
3.	Mr.Salim Alimmudin	Secretary	Male	Pakistani
4	Mr.Tasneem A. Siddique	Member	Male	Pakistani
5.	Mr. Younus Baloch	Member	Male	Pakistani
6.	Syed Saqib Ashfaq	Treasurer	Male	Pakistani
7.	Mr. Fazal Noor	Member	Male	Pakistani
8.	Mrs.Rabia Siddique	Member	Female	Pakistani
9.	Mr.Ahmed Ali Habibi	Member	Male	Pakistani

ORGANIZATIONAL STRUCTURE



List of Programs of Organisation

<u>Sr.No.</u>	<u>Programs</u>
1.	Low Cost Water & Sanitation Program
2.	Youth Training Program
3.	Kitchen Gardening Program
4.	Partnership with local Universities
5.	Skill Training
6.	Community Architect Training
7.	Small School Support Program
8.	Low Cost Housing Improvement Program

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1) Low Cost Sanitation Program: The Low Cost Sanitation Program enables low income families to finance, manage and maintain sanitary latrines in their homes, underground sewerage lines in the lanes and secondary sewers (this constitutes internal development). The government is responsible for providing main sewers/box drains and treatment plants (i.e. external development). OPP-RTI provides social and technical guidance to both community and government facilitating partnerships. The model that has evolved from the program is the component-sharing concept of development with people and government as partners. It has evolved from a lane to the city/town. The program has extended to 109,848 house of Orangi town. Also, 645 settlements in Karachi and 48 cities/towns, also in 136 villages (spread mostly over the Sindh and Punjab Provinces) covering a population of more than 2 million, have been provided with low cost sanitation. Together with 18 partner NGOs and a number of government organizations, the expansion of work continues. There is now city/town wide application. In 2003 the Punjab Government's SPBUS program for 21 towns adopted the component-sharing model, work on external sanitation is nearing completion, while internal development by the community supported by partner organizations continues. OPP-RTI's proposal for sewage disposal for Karachi is now the Karachi Water and Sewerage Board's (KW&SB) S-III plan for the city (approved in December 2006), implementation is under process. Karachi Municipal Corporation continues to be supported with Sketches/Drawings and designs for the development of the main "nalas" (the sewage disposals /drainage channels) as box drains – more than 55% of these have now been developed. Additional focus in Karachi is the infrastructure development (sewage/drainage disposal and water supply provision) in the 1,131 goths /villages (that have fast become urban settlements). In the National Sanitation Policy approved by the government in November 2006, the component-sharing model and lessons are included as policy measures to be adopted nationwide.

Construction of Sewerage line completed: Jul'2020 to Jun 2021

	Lane	Length (rft)	Houses	Mains	Length (rft)	Lane Served
Goths of karachi (Gadap)	51	17100	951	18	42990	148
Orangi	6	1850	121	2	1202	114

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Out Side Karachi

Construction of Sewerage line completed: Jul'2020 to Jun 2021

	Lane	Length (rft)	Houses	Mains	Length (rft)	Lane Served
	53	13905	1317	9	4485	489

2) Youth Training Program:

Our youth program continues to train more community architects and technicians. Sketches/Drawings and documentation of drainage channels and infrastructure in settlements and goths of Karachi by the youth continues, it provides the basis for expansion of work. Sketches/Drawings and documentation of infrastructure of 589 of the total 2,737 settlements/goths and 16 out of 18 towns of Karachi are complete, together with the Sketches/Drawings of most of the drainage channels in the city. A Youth Technical Network has lately evolved bringing together youths of 18 partner organizations to understand, learn and strengthen each other (with Sketches/Drawings and technical skills).

Sketching of Layout Completed : Jul'2020 to Jun'2021

S.No	Name of Goth	Town	UC	Houses	Population
1	Jodh	Islamabad	Ward-4	250	2000
2	Ternol	Islamabad	Sohan	250	2000
3	Dhok Abbasi	Islamabad	UC-48	2500	20000
4	Basti Jhandir	Lodhran	Cham Kulyar	30	210
5	Pind Begwal	Islamabad	UC-7	500	4000
6	Islam Pura	Gujranwala	UC-167	438	3500
7	Derh Umid Ali Shah	Mianwali	Daud Khel	88	700
8	Pakki Shah	Mianwali	Daud Khel	314	2500
9	Burma Town	Islamabad	18	3750	30000
10	Taramri	Islamabad	Tarli-19	2250	18000
11	Bhara Kahu	Islamabad	UC-4	11327	90616
12	Sikandarabad	Karachi	Kemari-45	300	2100
13	Atthal	Islamabad	UC-7	1500	12000
14	Farooqabad	Mianwali	Daud Khel Rural	350	2800
15	Ghazi Goth	Karachi	UC-8	1650	13200
16	Shahpur Chakar	Sanghar	Shahpur Chakar	12500	100000
17	Sinjhero	Sanghar	Barhoon	9375	75000
18	Barhoon	Sanghar	Sinjhero	3750	30000
19	Moula Dad	Karachi	UC-38	330	2310

3) Kitchen Gardening Program: Since September, 2016, OPP-RTI has started kitchen gardening workshops with women and children. For this program, women who are in our savings groups are given priority. Growing vegetables organically in our homes is better for our health, and in the long run, helps save money which is especially important for people who fall in the low income category. Also, during our workshops we teach our trainees how to recycle items that are easily found in their home, for example, vegetables can be grown in plastic bottles, broken buckets and even broken plates.

This helps keep costs low for them and also encourages recycling waste. We also teach them how to recycle water in their homes to water the plants. As mentioned, in the long run, it is less expensive to maintain a kitchen garden than it is to buy vegetables. In order to make this possible, we also teach them how to make their own fertilizer (compost heap) and how to harvest and save seeds from their gardens so they do not have to buy these in the future. For children, we encourage them to not only have kitchen gardens at home, but also in school.

This means that more children will learn through them. Also, it will be very easy for their teachers to include their garden in their existing classes, for example, biology. Our participants go through a class which focuses on the theory related to kitchen gardening, which is also there to help educate them on why kitchen gardening is important and its history, not just on how to plant vegetables. After the theory part of the workshop, they are taken outside for a practical. During the practical, they mix the soil, plant seeds and learn how to recycle found objects. At the end of the workshops, our participants are given pots, seeds and fertilizer to take home to start their own gardens. After a few weeks, our staff checks in on them to see their gardens and help troubleshoot any problems they may be having. To date, we have trained 950 women and school children.

OPP-RTI hopes to scale up these programs in the near future and to take it outside Orangi (we have already started training women in other areas). We hope to train one thousand women and children per year.

Tree Plantation: We have also initiated a program of shade giving fruit trees in Orangi. This is to help cope with the unprecedented heat wave that has hit Karachi the past two summers. We provide saplings, fertilizer and also a leaflet teaching people how to care for their trees and how to recycle water. To date we have planted about seven hundred saplings in homes as well as schools in Orangi.

Urban Farm: OPP- RTI has established an organic farm on its premises. We see two main advantages of organic farming: 1) it is beneficial for people's health and 2) since organic vegetables' market price is higher than regular vegetables, it can be a potential source of income for people with land (mainly people living in rural areas). As organic farming is new to us, and it presents itself with a whole new challenges for us, we decided to set up a model in our office. We hope that after the current season, we are able to take our model into the rural areas. Another aspect of this will be to connect the market for organic vegetables in the cities to the organic farms in rural areas. One main aspect of this is recycling water. There has not been much rainfall in Sindh in the past couple of years and water, through main lines, is unreliable as best. As a result, we felt it necessary to experiment with three different models of recycling water. Currently we have two filtration systems in process, a Bio-sand filter and filtering sewage through sedimentation. The third method, Effective Microorganism Treatment Unit (EMSTU), is being used all over Orangi, Sindh and South Punjab. Sewage treated through these is tested (as E-Coli and high salt levels are detrimental to health) before use in agriculture.

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Statistics: April'2016 to Jun '2021

	Jul'2020 to Jun'2021		Cumulative -Jun 2021	
	No.of School	Members	No.School	Members
	1	30	14	950

4) Partnership with Local Universities: OPP has always worked closely with students from various universities in the city. Recently we have established a program called the 'Perween Rahman Village Development Program' with the Architecture Department of the Dawood University of Engineering and Technology. OPP will train the students in rural Sketches/Drawings, sanitation design, housing, livelihood and good agricultural practices including recycling of water. Students will work in their villages through summer and other holidays and provide full scale assessment and solution to rural poverty and its alleviation. OPP will use this knowledge to create its Village Development Program in 500 villages with its own partners.

We have also partnered with Habib University. Students who are enrolled in Habib Universities Cartography course will be trained in Sketches/Drawings, which they will then use to Sketches/Drawings certain areas of Karachi. The data collected, along with the Sketches/Drawings, will then be used to form a plan to better these areas.

In order to make our new initiatives sustainable (hopefully within 8- 10 years), OPP requires approximately Rs. 5 million per year to run all of our programs.

Statistics: Jan'2016 to Jun '2021

	Jul'2020 to Jun'2021		Cumulative-Jun2021	
	Groups	Members	Groups	Members
	1	43	25	583

5) Skill Training:- Our skill training program started mid- December, 2016. The main aim of the program is to give young men and women in the community skills they can use and start their own small enterprises. The women being trained are part of our savings group, so they can use loans from the savings to start their own businesses. Eventually, we plan to make them part of our microcredit program. So far, 10 women are being trained in embroidery. We provide all the material needed for this training.

In addition, we have a course designed for young men on Port Services (which includes training on all things related to port activity, for example, surveying and inspection). This is a theoretical course which lasts 3 months (24 hours). We have provided the students with in depth material, that will help them

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learn and which they can use once they enter the job market. 7 young men are currently enrolled in the course.

OPP-RTI is also starting on the job training for young men on the first of January, 2017. We will partner them with people who have their own businesses and have been working for 20 plus years. This is because working as electricians, plumbers, bakers and air conditioner repairmen (which are the skills we are offering training on), require hands- on training. Depending on the skill, the training will last between 6-12 months. During this time, we will be covering the trainees transport costs.

Stitching:

As part of our Youth Training Initiative, we have started training 22 young women in stitching. It is a three month course, at the end of which we hope they can find employment in the ready-made garments industry which is flourishing in Orangi. Many women home based workers are hired by garments factories to stitch clothes and to put finishing touches on already made clothes.

6) Community Architect Training:

OPP has introduced Youth training program. 1 courses completed this period at OPP office, 3 students participated this training. Students participated from community and technical colleges. One month Sketches/Drawings and sketching. Second month House design and improvement.3rd month Level machine training.

Statistics: Sept'2017 to Jun '2021

	Jul'2020 to Jun'2021		Cummulative- Jun 2021	
	Groups	Members	Groups	Members
Community Architect Training	1	3	15	336

7) Small School Support Program:

The Small School Support Program upgrades the physical condition (including adding ventilation and lighting) and improves the academic standards of private schools in Orangi and five more peripheral towns of Karachi. In the past, this was done through start up grants and the mobilization of saving groups. 654 schools educating 85,382 children have been supported. In addition 623 more schools continue to be supported with credit by OPP-OCT. For strengthening the network of schools, training activity, lectures and forums are organized. The events, besides adding to their skills, have provided an opportunity to schools and teachers to come together. In order to encourage support (financially and otherwise) a group of 106 schools have formed a savings groups. The group also supports members with credit from their savings.

In the past, OPP-RTI has provided low cost teacher training to private schools in Orangi and other towns in the peripheral area of Karachi. In November 2016, in partnership with Oxford University Press (OUP) and others OPP-RTI has started to provide free training to teachers. Teachers are trained on classroom management, lesson planning, multiple intelligences and smart assessment. In addition teachers are

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trained on how to teach specific subjects like Urdu, English, Science and Math. To date about 106 teachers have been trained.

OPP- RTI has also started training for art teachers (in partnership with Vasl Artist's Collective). We believe that schools should include art in their curriculums, especially at the primary level. Art inspires creativity and is also a way for children to express their emotions. To date, about 859 teachers and students have been trained in art education.

Statistics: April'2017 to Jun '2021

	Jul'2020 to Jun'2021		Cummulative- Jun 2021	
	No.School	Members	No. School	Members
	-	-	154	872

8) Low Cost Housing Improvement Program:

The Low Cost Housing Program enables improvements in building components and construction techniques, through action research, provision of credit and technical guidance to the building component manufacturing yards, training of youths and masons and the mobilization of house owners. Each year more than 2,500 houses in Orangi benefit. What is most important for development is the training of youths to become community architects as well as mobilizing and strengthening their organizations, based in Orangi and other towns, for providing housing support services to the community and technical training to other youths. Two partner organizations have evolved, one based in Orangi, with its work expanding beyond Orangi and another based in the nearby Gadap town.

In addition is the cooperative housing, saving and loan program reaching to up to 54 houses. Housing units in need of physical improvement are provided interest free loan and technical guidance. This program has been linked with the women savings program.

Statistics: Jul'2016 to Jun '2021

	Jul'2020 to Jun'2021	Cummulative- Jun 2021
CHS & LP	-	276
Units Documented	-	321

Financial Snapshots

Year 2020-21

General Funds = 155,170,258

Liabilities = 58,236,797

Assets = 213,407,055

Gross Income = 72,613,025

Expenditures = 56,835,877

Net Income = 15,777,148

CONTACT DETAILS

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