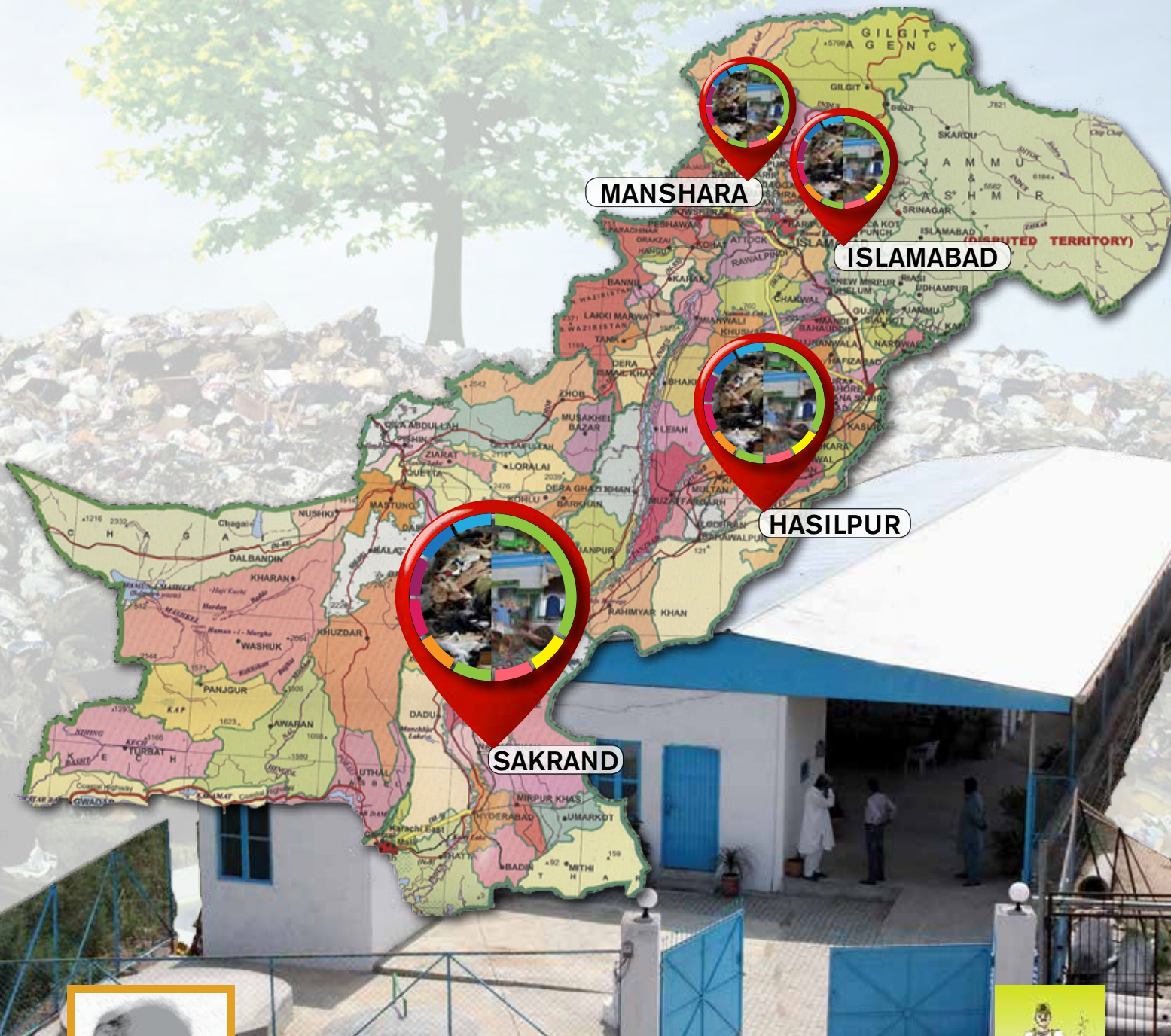


# STEP's TO ZERO WASTE PAKISTAN

## ANNUAL REPORT

October, 2016  
September, 2017



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MEMORIAL TRUST RAWALPINDI

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# EXECUTIVE SUMMARY



AHKMT, established in 2000, as a non-government organization, with prime focus on waste related practices and research. Now it has grown steadily as a specialized resource center in the country over the years.

AHKMT since its inception has developed, piloted and disseminated pioneering models in the fields of community based solid waste management and composting. After a long journey in the field of solid waste management AHKMT developed, Integrated Resources Recovery Center (IRRC) as a final solution of solves environmental problems in Pakistan.

It was established by UN-ESCAP in collaboration with UN-Habitat, Waste Concern, the Dr. Akhtar Hameed Khan Memorial Trust and the Jammu and Kashmir Cooperative Housing Society on August 2015 with a mission to reduce the waste mismanagement impact on environment in Pakistan and contribute in achieving the United Nations Sustainable Development Goals for clean, healthy and pollution free environment for our future generations in Pakistan. During last 2 year IRRC has made substantial progress in waste processing, selling of compost and capacity building of multiple stakeholders from government, private and development sector.

The purpose of an annual report is to tell the story of AHKMT's performance.

During his first phase of extension AHKMT gives technical assistance to Local Government Sakrand Town and established IRRC model, door to door



waste collection services, compost piling in Sakrand Town of Sindh Province. In collaboration with NRSP, AHKMT extended his services and support to southern Punjab Hasilpur regarding Waste water well management, piling composting, replicating e-guard and IRRC Model. Ministry of climate change, federal Secretary MOCC, Deputy Mayor Islamabad were convinced about the IRRC Model and resultantly UNDP-GEF project proposal for component sharing has been submitted for in MPCHS B17. National wise Symposium and Kitchen gardening project was also initiated with the help of Arid Agriculture University regarding IRRC promotion and projection.

IRRC Islamabad recovers resources in form of recyclables, green waste and compost of worth Rs.570000, except of 44.5 ton unsold compost.

IRRC Islamabad as a Training Center also, imparting training to a wide range of target groups, with specific focus on resource recovery. About 280 participants including councilors, TMA officials representing four provinces participated this year in the IRRC training program.



# Chapter 1

## INTRODUCTION ABOUT AKHTAR HAMEED KHAN MEMORIAL TRUST (AHKMT)



AHKMT established in 2000, is a non-governmental organization registered with the Government of Pakistan. It is working closely with government, private sector, local communities and international agencies to improve environment. At AHKMT, we develop low-cost appropriate technologies for management of waste as well as to solve environmental problems.

### **AHKMT AIMS TO:**

Develop and promote appropriate technology and policy for waste management and recycling in the country;

Develop public-private-community partnership for improvement of environment

Create job opportunity by promoting recycling of waste by use of appropriate technologies

### **FIELDS OF ACTIVITY**

AHKMT has vast experience the implementation of projects in following fields:

- Solid Waste Management and Resource Recovery
- Waste Water Treatment
- Community Based Environmental Improvement
- Urban and Rural Environmental Management
- Capacity Building of local Government
- Municipal Services Planning
- Environmental Impact Assessment
- Organic Farming

### **DECENTRALIZED APPROACH BY AHKMT**

#### **Background**

Rapid increase of solid waste and problem of its management has become a serious concern for Pakistan. Rapid growth of population, increasing urbanization and intensifying economic activities have all contributed to the generation of huge amount of solid waste in the urban areas of Pakistan.

Municipal authorities responsible to manage urban waste are already overburdened, and simply cannot provide satisfactory services with their conventional system. With a collection efficiency of 54%, municipal

service of the city is already over burdened, and simply cannot provide satisfactory services. As a result, uncollected waste lies on roadsides, open drains, low-lying areas, thus contributing to the deteriorating quality life and environment of these cities.

Urban population in Pakistan major portion is below poverty level and only 35% of the urban poor have access to municipal waste collection services in Pakistan. Due to increasing unemployment and lack of job opportunities, a large group of urban poor is gradually becoming involved with the recovery of inorganic recyclable materials from waste with economic value, for their survival. It is estimated that 60,000 nos. of urban poor are involved in the waste recycling trade chain in Rawalpindi and Islamabad. Although, these poor people play an important role in reducing a significant fraction of inorganic recyclables from the waste (15% of the total solid waste generated, almost 475 tons per day), their contribution remains largely unrecognized. A large portion of organic matter (almost 60% of the waste composition in Islamabad) with the potentials of converting it into compost or soil conditioner remains totally unrecognized and unutilized by these poor people.

Lack of partnership between the stakeholders involved with waste generation, management, recycling and absence of proper waste management policy has further deteriorated the waste related problem. It is ironical to see that on the one hand, 'waste' is being considered as a 'problem' by the local authorities and poor for their survival strategy considering 'waste' as 'resource' on the other hand.

### **TECHNOLOGY ADOPTED BY AHKMT FOR COMPOSTING**

AHKMT is promoting the IRRRC Model as a final solution to the waste minimization. IRRRC recovers valuable resources from waste. Through their simple, non-mechanical technology, IRRRC can be built and operated at low cost.

IRRRCs directly benefited the urban poor, providing waste pickers with better, more stable incomes and safer working conditions.

By limiting the amount of waste going to dumpsites the IRRRCs also help the environment. IRRRCs can be initiated and operated by municipalities, private-sector enterprises and civil society organizations, or a combination of all three through different partnership models.

AHKMT model has three simple steps, they are as follows

1. Collection: Waste from different sources of waste.
2. Composting: Segregated organic waste processed into compost using aerobic techniques.
3. Marketing: Recyclable used for Industry and compost marketed to farmers using private sectors.





## Chapter 2

# SERVICES

## WORKING WITH LOCAL GOVERNMENT SAKRAND TOWN (SINDH)



Akhter Hameed Khan Memorial Trust (AHKMT) is closely working with Sindh Local Government where it has signed an MoU with Sakrand Town Committee for effective Solid Waste Management service delivery by establishing door to door waste collection at community level.

Sakrand is a Taluka/Tehsil of the district Shaheed Benazirabad (Previously Nawabshah), Sindh province of Pakistan. It has 15 Urban Wards.



AHKMT worked in collaboration with Sakrand Town Committee in providing Services, Training, Awareness and Mobilization fields regarding Solid Waste Management. These activities were planned and executed in January, 2017.

### • Trainings

Training and Capacity building are the core value of AHKMT; while working with Sindh Local Government, AHKMT arranged Training programs for the following key stockholders for effective and efficient SW service delivery at Sakrand Town Committee.

1. Sanitary Workers
2. Councilors (local bodies elected representative)
3. Community activists
4. Lady Health Visitor (LHV)
5. CBOs

### • Services

1. Door to door SW collection; for door to door collection AHKMT initially applied his own built and sustained model of SWM called e-guard in 5 wards of 5000 Households.





2. Establishment of Haryali center; Harali center - community level compost center has also been established.

- **Awareness/Mobilization**

1. Sanitation week; Before starting door to door waste collection, 'Sanitation Week' was celebrated, during which all street drains and plots were cleaned.
2. School Painting Competition; Government primary schools of selected and students along with teachers were sensitized regarding solid waste management issue and problems.



For community sensitization a pamphlet was also designed and published in Sindhi (local) language with a slogan – 'Manjo Kichro Munji Zimedari'.

Technical Assistance: AHKMT has provided the technical supports to Sakrand Town Committee in preparing detailed technical architectural and structural design for the construction compost plants, called- compost piling.

The produced compost through compost piling has been tested and approved for used. After approval the compost is gifted to cotton Research Institute for more validation.



The compost also has been experimented through local farmers. With the help of MOCC and UNDP-GEF AHKMT will start organic farming model with 100 farmers in 100 Acre.





Working With MPCHS F-17; we are providing services of door to door Waste Collection and sweeping to F-17 from last two years. We construct the IRRC and also going to start the same services in B-17.





Manshara (KPK); on the invitation of Deputy Commissioner Mr Mohammad Ayaz an MoU has been signed with the TMA Manshara for the processing of solid waste at the said city.





## Chapter 3

# WORKING WITH NRSP



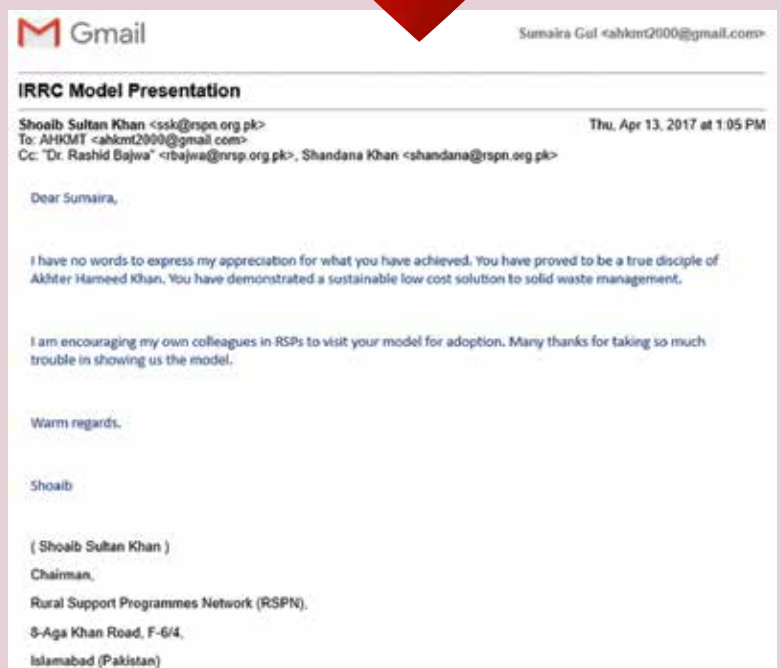
National Rural Support Program (NRSP) is Non-Profitable organization and the largest Rural Support Program in Pakistan in terms of outreach, staff and development activities. Mr. Shoaib Sultan Khan a renowned social scientist, closest friend of Dr. Akhter Hameed Khan and founder of the NRSP acknowledged and appreciated the work of AHKMT in the field of SWM on the occasion of annual gathering of the Acumen Fellows in Nairobi, Kenya.

In Acumen Fellows gathering 2017 where Mr. Shoaib Sultan Khan participated as a keynote speaker met with Ms. Sumaira Gul (an Acumen Fellow) and discussed the concept of IRRC and e-guard in details. It was the fruit of that detailed discussion that AHKMT started work with NRSP regarding SWM in South Punjab (Hasilpur) region.

On his returned to Pakistan Mr. Shoaib Sultan Khan along with NRSP Board Members Ms. Naseem and DR. Ayesha visited IRRC in G/15 Islamabad and observed all procedures of IRRC.

Mr. Shoaib Sultan Khan invited AHKMT to share IRRC and e-guard models with the board members of RSPN, and advice RSPN to replicate these models in three cities namely Hafiz Abad, Hasilpur (Punjab) and Tando Muhammad Khan Sindh with the technical support of AHKMT.

On the Bases of mutual agreement and understanding MoU has been signed Between AHKMT and NRSP regarding SWM and location has been marked for intervention. According to the MoU AHKMT will provide technical guidance and assistance, local LSO will be responsible for Mobilization and NRSP will fund overall activities.





The following established rules /steps of e-guard Model were adopted for Services delivery in marked areas; namely HasilPur (Punjab).



Waste water well and piling composting; AHKMT has adopted a waste water disposal plant in UC Qaimpur. Under the assignment, AHKMT is providing technical support to assess the 2000 HH Waste water well waste management and providing practical solution to improve the operational efficiency and bio-slurry management system. AHKMT along with the above activities has also established the IRRC Model in the locality which is functional from the inception.





## Chapter 4

# WORKING WITH THE MINISTRY OF CLIMATE CHANGE (MOCC)



The Ministry of Climate Change is a separate Ministry created out of the Climate Change Division of the Cabinet Secretariat of the Government of Pakistan, in the Cabinet of Prime Minister. AHKMT runs on the guiding principles of Dr Akhter Hameed Khan's philosophy, every practice and sayings of AH Khan is the practice and sayings of AHKMT.

Involved all stockholders in planning, designing and implementation of project are the key practice of AH.Khan so is the practice of AHKMT.

While promoting the concept of IRRC and involved concerned State agencies to pick and replicated the IRRC Model throughout the country AHKMT approach to Ministry of Climate Change. Relentlessly efforts of AHKMT to project the idea of IRRC at Ministry level gives some returns in the form of Secretary Visit to IRRC and acknowledgement of it returns.

Mr. Abu Ahmad Akif federal Secretary MOCC visited IRRC on April 10, 2017 to observe and evaluates the Model for adaptation and implementation at capital level. During the visit, Secretary has been briefed about the sample mechanism of IRRC, its cost effectiveness and sustainability.

After orientation of IRRC Secretary highly appreciates and acknowledges AHKMT contribution towards environmental degradation, and instantly agree to fund



IRRC at Islamabad. furthermore, he also communicated the idea to CDA for collaboration and support to construct IRRC at Islamabad.

After Ministry involvement CDA take keen interest in IRRC model and on demand AHKMT representatives arranged a meeting with Deputy Mayor to convey the decentralized approach of IRRC.

AHKMT, organized a field trip to allow Deputy Mayor along with other participants to have hands on experience how composting is done using municipal waste.

Deputy Mayor Exposure visit and orientation session has been arranged at IRRC to demonstrate IRRC process and procedure. Deputy Mayor Shows his strong willingness to replicate IRRC in Tarnawal. Tarnawal feasibility Study has been conducted on demand of Deputy Mayor for IRRC construction and replication. Director sanitation –CDA visit was also the continuation of the same process.



IRRC Replication: During IRRC feasibility in Tarnawal it comes into knowledge that Capital Development Authority (CDA) has no enough land in Tarnawal for IRRC construction so it is decided to construct IRRC in (MPCHS ) B17.





# Chapter 5

## WORK WITH ARID AGRICULTURE UNIVERSITY



AHKMT closely attached to the Arid Agriculture University Rawalpindi as both are dependent on each other. Both have signed MoU for three years regarding R&D, technical assistance, community awareness and product promotion.

Vice chancellor Arid Agriculture University Rawalpindi visited IRRC to receive first hand information about the decentralized approach regarding SWM adopted in the form of IRRC.VC stressed on the mutual cooperation between AHKMT and Arid Agriculture University Rawalpindi in the field of research and practices regarding SWM.



This year AHKMT has worked with Arid Agriculture University Rawalpindi in the following areas;

**Kitchen gardening:** For compost promotional activities AHKMT started kitchen gardening scheme with the collaboration of Arid Agriculture University Rawalpindi. According to the agreement AHKMT provided Compost as a promotional product, Punjab Government Provided seeds and Arid Agriculture University Rawalpindi Provided training.



This one-time activity gives benefited 1000 school students in Rawalpindi.

**R&D:** AHKMT and Arid Agriculture University Rawalpindi have also cooperated each other's regarding R&D activities taking place in IRRC. Through this assignment AHKMT has been linked to a research institution for testing and evaluating his final product especially compost and other byproduct of SWM.





Arid Agriculture University Rawalpindi using IRRC as a research laboratory and training center of its scholars and students.

Currently Arid Agriculture University Rawalpindi PhD Doctors and students are also involved in different research activities related to compost and leachate in IRRC. Other than research activities the quality and composition of compost is also tested and evaluated by Arid Agriculture University Rawalpindi.



**Symposium:** AHKMT conducts research, conferences, capacity building Training and forums to promote the idea of IRRC as a decentralized SWM technique. This year AHKMT with the collaboration of Arid Agriculture University Rawalpindi conducted national wise Symposium on SWM to address the significant issue of sustainable solid waste management through the promotion of safe practices & effective technologies like IRRC. The Conference focuses mainly on the decentralized approaches adopted in IRRC. It aims to stimulate the interest of scientists and citizens and inform them about the latest developments in the field of municipal solid waste management.



The Conference had provided an opportunity to bring together scientists & professionals from government departments, industries, Municipalities, private institutions, research & education institutions, being a forum for the exchange of the idea of IRRC most recent ideas, techniques & experiences in all areas of solid waste management.

**Public Awareness;** This year AHKMT along with Arid Agriculture University Rawalpindi observed World Water Day. International World Water Day is held annually on 22 March as a means of focusing attention on the importance of freshwater and advocating for the sustainable management of freshwater resources.

**Technical Assistance;** According to the Agreement University will also provide the facility of testing for the Compost and Leachate.





# Chapter 6

## IRRC MODEL

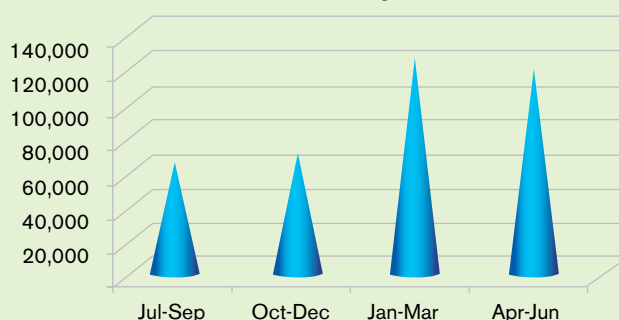


AHKMT since its inception has developed, piloted and disseminated pioneering models in the fields of community based solid waste management and composting. After a long journey in the field of solid waste management AHKMT with support of other international organizations develop, IRRC as a final solution of solve environmental problems in Pakistan. AHKMT since its inception has developed, piloted and disseminated pioneering models in the fields of community based solid waste management and composting. After a long journey in the field of solid waste management AHKMT with support of other international organizations develop, IRRC as a final solution of solve environmental problems in Pakistan.



Integrated resource recovery centre: An inexpensive solution with many benefits the integrated resource recovery centre (IRRC) is a small-scale, decentralized, community-based waste-to-resource model that uses simple techniques to capture the value of waste. IRRCs are inexpensive to build and relatively straightforward to operate because they require no or little mechanization. They can transform organic waste into compost or biogas; they can also process faecal sludge into compost. IRRCs can produce refuse-derived fuel and other waste-based products, and they can process recyclable inorganic materials. All of these outputs have a potential market value as a resource. An IRRC creates a range of economic, social and environmental benefits for municipalities, communities, businesses and national governments while managing a waste problem. As for the many economic benefits, by diverting waste from landfill sites, an IRRC can save a municipality substantial expenditure on transport costs, extend the life of existing landfills, reduce government spending on chemical fertilizer subsidies and improve the yield of crops. The scope of social benefits includes the generation of green jobs for low-income groups, improved living conditions and improved community understanding of critical environmental issues. Additionally, the IRRC

**Income from Recyclable PKR**





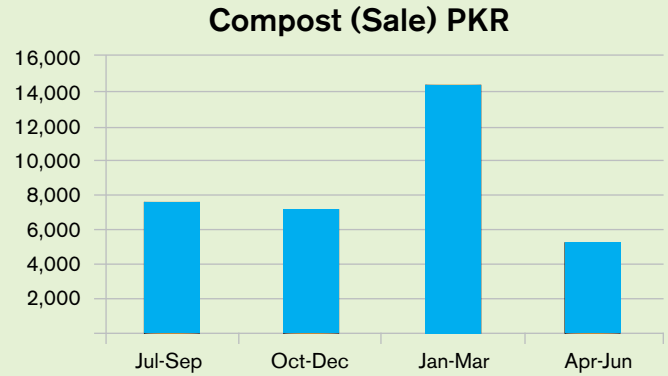
model generates such environmental benefits as reduced pollution, improved soil fertility through the application of compost and increased management of methane emissions (a harmful greenhouse gas).

The first IRRC was established by AHKMT in 2015 in G-15, now it is replicated in Khyber Pakhtunkhwa, Southern Punjab and Sindh.

**IRRC Balance Sheet:** The IRRC generates revenue primarily from three sources; collection of fee (almost 2000 households 4 Million PKR), sale of the recyclable material which is segregated on daily basis from the collected waste, recyclables sale (PKR. 480,000/), from the green waste and compost selling (PKR. 86,010). AHKMT also providing training and technical assistance for the replication of IRRC in different areas with the support of local Government Sakrand Town Nawabshah Sindh, NRSP Bahawalpur Punjab, HANDS Hyderabad Sindh and Manshara KPK.

### Income from Recyclable

The graph show quarter wise income generation from the segregation and selling of recyclable which is almost 25% of the total waste and its average monthly sale is Rs. 40,000/-



### Production and sale of organic compost

- The organic waste segregated in last year 445 ton
- The organic compost produced in last year 44.50 ton
- The compost sale out in last year 3.5 ton



### Organic Waste Compost Production

Total organic segregated Waste and Produced compost detail is as under:

- The green waste sale out last year 5.2 ton
- The compost gifted last year to Parks and Horticulture Authority (PHA) 1 ton
- Government schools and college student for kitchen gardening 1 ton
- Model plots, crops and vegetables three cities 3 ton
- To different visitors 1 ton
- 30-ton compost in store





# Chapter 7

## CAPACITY BUILDING AND TRAINING CENTER



### CAPACITY BUILDING AND TRAINING CENTER

AHKMT is actively involved in imparting training to a wide range of target groups, with specific focus on community-based solid waste management and resource recovery.

AHKMT have successfully developed training modules regarding community-based solid waste management and resource recovery. These training modules have been utilized by AHKMT for training workshops in Sakrand Town (Sindh) and other Pakistani cities.

Trainings



### Training Detail of Sakrand Town Sindh

Activity	Place	No. of Participants
Sanitary workers Training	Sakrand Town	60
IRRC Operating Training	IRRC Islamabad	6
Teachers Training	Central Cotton Research Institute	46
Training of Councilors	Central Cotton research Institute Sakrand Town	13
LHV, LHW & CBOs	Central Cotton Research Institute Sakrand	44

### Training Detail of Hasilpur Punjab

Activity	Place	No. of Participants
Mobilization Training	NRSO office Hasilpur	21
Sanitary Workers Training	LSO office Qaim Purr	19
Orientation of Lane Managers	Qaim Purr	42



**HANDS Team from Sindh**

Activity	Place	No. of Participants
Orientation and exposure Visit of IRRC	IRRC Islamabad	25
Orientation and exposure Visit of IRRC	IRRC Islamabad	2

**Recycling Training**

Recycling training centre at IRRC: In order to promote the idea and practice of converting waste into resources, AHKMT established a Recycling Training Centre at IRRC Islamabad. Main goals of the center are, to promote the concept of the 3R principle (Reduce, Reuse, Recycle), to demonstrate efficient technology and provide hands-on training with respect to: Organic waste recycling, Rain water harvesting and Eco-sanitation.



This year, in collaboration with different local governments, international and national donor organizations, AHKMT through IRRC have conducted the following Training;

**CDN Orientation:** Community Development Network is an organization of 100 CBOs all over Pakistan working for better future of communities in the country, this year AHKMT gives Orientation to 100 members of CDN on IRRC and e-guard Model for replication and promotional purpose.



**IRRC as a testing Lab;** Different researchers and students working on compost and leachate are attached to IRRC. This year the different research activities has been accomplished by different students and researchers;

**IRRC Projection and Promotion;** AHKMT professionals are also engaged as guest lecturers and resource persons for training programs/workshops on solid waste management, recycling, composting, urban environmental management, municipal infrastructure planning and environmental impact assessment. The trainees are drawn from officials/staffs of municipalities, government and non-governmental organizations.



In order to promote the idea and concept of IRRC at local national and international level AHKMT Professionals visit different educational and research institutes, concerned governmental organizations, corporate sector and national and international donor agencies. This year AHKMT experts visited the following institutions/organizations;





# Kenya visit as Acumen Fellow

AHKMT Program Manager Miss. Sumaira Gul, attend a global conference of Acumen Fellows held in Kenya in March, 2017 as She is the alumni of Acumen Fellows (first batch 2012) and The idea of e-guard was also generated during the fellowship. Around 400 fellows attend the conference. After the completion of one-year fellowship, she launches her work as small business and entrepreneur.

Acumen Fellows program seeks out the world's most innovative entrepreneurs whose game-changing innovations are disrupting poverty. Acumen fellows program invest patient capital in them, providing the flexibility and security to grow their businesses and reach as many poor customers as possible. Acumen Fellows Programs develop extraordinary individuals with the knowledge, support system and practical wisdom to unlock their full potential to drive positive social change.

During this global conference Ms. Sumaira Gul promoted the idea and concept of IRRC and e-guard as a sustainable business model. This global conference also benefited AHKMT in the form of global Networking for research and replication of the said models.



# Karachi Conference



# VISITOR REMARKS ABOUT IRRC MODEL



D

“Appreciative effort for convicting issue to opportunity Keep it up. AAUR will keep working with this excellent effort.”

| **Dr. Niaz Ahmed** |

Vice Chancellor Pir Mehar Ali Shah Arid Agriculture University Rawalpindi.

S

“Thank you IRRC for arranging a site visit, the work done here as wonderful and needful since long. I am thankful to Habibullah Sb for complete briefing, we entered to replicated this model in our areas”

| **S. Taskeen Akhtar** |

CDM, AMC, Lahore

S

“Perfect depiction of a business model for solid waste management. It is very good project that should be replicated on the basis of public and private partnership. I would encourage if this project should be improvised via technology up gradation.”

| **Sami Naeem Khan** |

Environmental/Research Associate CCRD, Comsats Islamabad

S

“This is an absolutely wonderful project I am really so awed by the hope for the future. Whether I remain in the Ministry of climate change or not I will InshAllah support this project. I am sure Dr Akhtar Hameed Khan would be proud. Mr. Hamidullah and Ms. Sumaira Gul deserve great appreciation”

| **Syed Abu Ahmad Akif** |

Secretary Ministry of Climate Change, Govt. of Pakistan

A

“Really impressed by the work of IRRC, great to see how waste is being collected & recycled. The center is also providing job opportunities to people and at the same time providing a clean environment in the locality”

| **Ashraf** |

JW Mall Cr Tear fund





“Impressive and remarkable”  
| **Noveed Hussain** |  
Admin Sport



“Nice to visit the place. A good effort to keep the environment clean! Best of Luck to IRRC”  
| **Shehzad A. Hameed** |  
Lalamosa Training Academy



“Visited IRRC to gain practical knowledge about solid waste management. This is a success story of Pakistan in the private sector. Such initiatives in others parts of the country in urban, semi urban area will care millions of houses based of bad effects of solid waste. The academia and research institution, need to provide support to such initiative.”  
| **Azeem Shah** |  
Fazaullah Khan Chairman IRSP



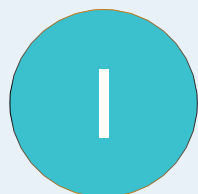
“IRRC is a state of the art facility and it’s a new idea for waste disposal in Pakistan. The work idea is quite workable. It needs to be replicate ideally will housing societies and institutes.”  
| **Project Director Islamabad** |  
COMSATS Institute of Information Technology



“We Visited IRRC. It is a wonder project which is doing a great job for environment protection”. | **Shahzad Bhatti** (Communication Manager) |



“Very nice impression & encouraging this is what Pakistan needs and especially densely work full centers, hopefully the initiative will expand develop and cover the whole country. Thank you very much”  
| **ECHO** (European Communication) NASH & Shelter Luc Soenen |



“Impressive and innovative system for Islamabad efforts. Needs to replicated at large scale lead by the government and keep pick cities clear and transfer trash into cash”.  
| **Europen Communication Humanitarian Acid (ECHO)** **Iqbal Karem** |



“Great effort to support clean environment by reducing and recycling the solid waste it’s the 1st Step, counter support and effect can end in help to reduce the solid waste”.  
| **Hyder Ahmed**, Chief Sanitary Supervision CDA |

S

"It is indeed very impression and thought promoting experience to visit IRRC. We are working together at Town Committee Sakrand in Sindh, in this regard my visit was very use full and we are going to establish of this kind of centre at Sakrand. Now a day the solid waste is a very big problem for our society but today I am optimizing about the better full of our society good washes for managements."

| **Syed Munner Shah** |

Chairman Town Committer

Sakrand, Distric Shaheed Benazir Abad Sindh

M

"It is a very encourage and nice arrangement for reutilizing the waste in a beneficial manner very proactive system and deserve apply from all segment of society"

| **Maj Shahid** |

NDU Islamabad

D

"Impressive innovation. I wished you would also cover other sector in Islamabad. Not a lot it needed to do good work. All the best to you and a lot of support and success."

| **Dr Almut Besold** , FNF (German Organization) |

J

ڈاکٹر اختر حمید خان کے نام پر قائم ہونے والے ادارے نے ثابت کر دیا کہ ڈاکٹر حمید خان صاحب کا فلسفہ جو پائیدار ترقی کی غمازی کرتا ہے۔ قائم رہے۔ کیونکہ ڈاکٹر صاحب کہتے تھے کہ جیسے ادارے قائم ہونگے تب ہی ہم کامیاب ہو سکتے ہیں۔

| **Javid Baig** |

|Coordinator MON-Pak|

R

"The solid waste management has become a serious issue. I am pleased to note that IRRC is managing it with in G-15 in a very professional manner. Plant is very well maintained in scientific manner. We are also looking forward to replicate similar arrangements in our cities. The Commitment and professional of IRRC is highly appreciated"

| **Raja M Razzaqur** |

Director General EPA- AJK

S

"I visited today IRRC at Islamabad met with Hamid Ullah Khan the CEO of Dr Akhtar Hammed Khan Memorial Trust the plant organized by the NGO is very wonderful. I Appreciate Mr Hamid Ullah Khan for this programme".

| **Sarffraz Ahmed** Area Manager |

K

"It was so great to see IRRC functioning after more than three years which came as UNESCAP facilitated idea from Bangladesh and I was the Manger Basic Services in UN Habitat to implement in Pakistan. The best decision we took at that time will all team, that we chose Akhter Hamid Khan trust for taking it forward."

| Capt (Retd) **Kamran Naeem**, UNICEF |



# Chapter 8

## MEDIA RESEARCH AND PUBLICATION



AHKMT conducts research and experiments regarding solid waste management, recycling, waste water treatment, as well as organic farming. It also provides consultation services and project assistance, and supports institutional development and capacity building in the field of solid waste management.

During the year 2017 AHKMT has conducted and produced following research studies and publications accordingly; Fateh Jhang solid waste situation analysis, Lala Musa solid waste management situation analysis and feasibility study of IRRC, Tarnowl IRRC feasibility study.







## Our Services

### e-guard



#### Door to door waste collection



#### Waste Processing



#### Sweeping

### Dr. Akhtar Hameed Khan Memorial Trust



#### Research Studies on SW



#### Capacity Building



#### Awareness campaign



#### IRRC Designing

## Haryali Compost



#### For fruits/vegetables



#### For Nurseries/plants



#### For Crops



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Integrated Resource Recovery Center  
**2<sup>nd</sup> Annual Report**  
October, 2016- September, 2017

