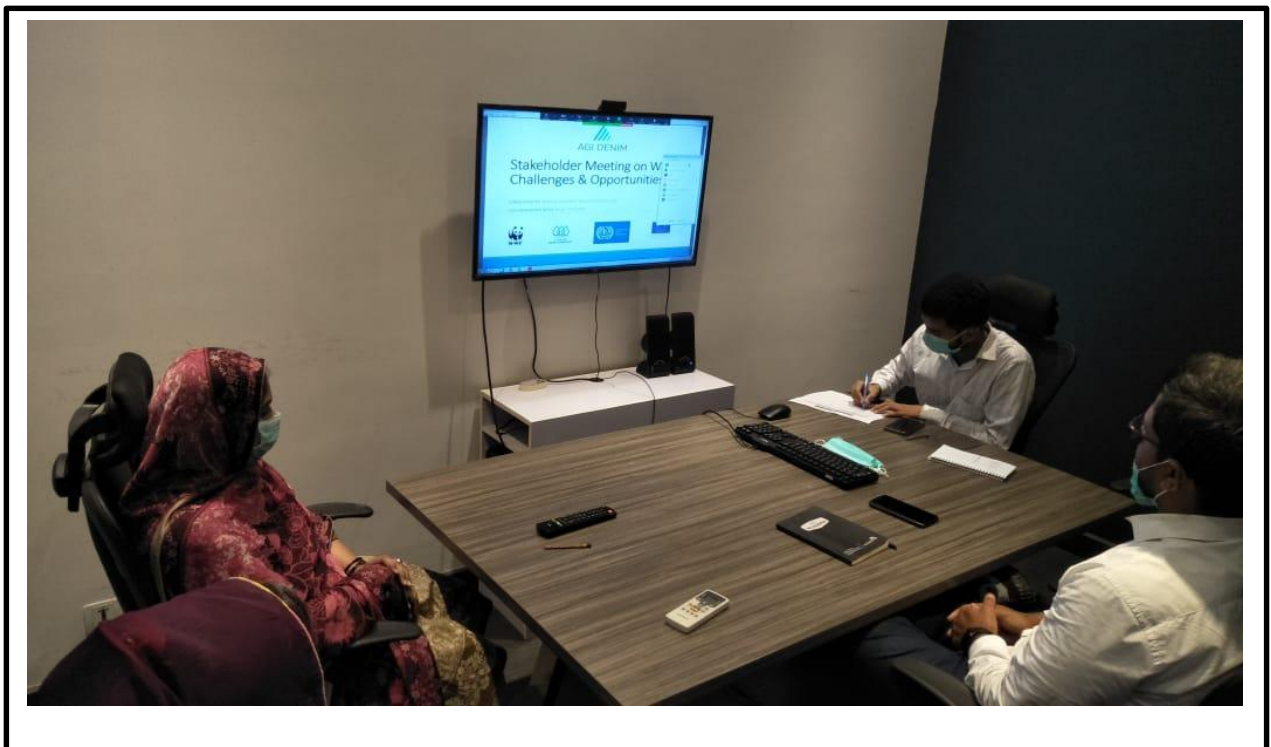


Stakeholder Meeting on Water Challenges & Opportunities



17th June, 2020

1 Introduction

Growing populations and economies, changing lifestyles and global climate change are putting increasing pressure on our water resources. Major water users, governments, cities and citizens all recognize the urgent need to work together to ensure the sustainability of this vital resource on which we all depend. Water stewardship enables water users to work together to identify and achieve common goals for sustainable water management and shared water security.

1.1 Purpose of session/Objective

The session was held to take stakeholders' representatives from Communities, Industries and Government Authorities onboard to discuss our shared water challenges under Alliance for Water Stewardship Project.

1.2 Venue

The meeting was virtually hosted for stakeholders, amid of COVID-19, at Artistic Fabric and Garment Industries – AGI Denim, Unit 2.



Figure 1: Artistic Fabric & Garment Industries – AGI Denim, Unit 2

1.3 Participants

1. Mr. Zeeshan Mazahir (Manager EHS & Sustainability AFGI-Denim)
2. Mr. Qazi M Hassan (EHS & Sustainability Coordinator AFGI-Denim)
3. Abdul Rehman Khan (EHS & Sustainability Officer)
4. Mr. Mashood Tariq (EHS & Sustainability Officer AFGI-Denim)
5. Love Kumar (WWF)

6. Mehak (Community Representative)
7. Islam (Community Representative)
8. Adil (Community Representative)
9. Rasheeda (Community Representative)
10. Kainat (Community Representative)
11. Sarwat Rehman (Catchment Industry Representative)
12. Afsheen Rizwan (Catchment Industry Representative)
13. Mursaleen Usmani (Catchment Industry Representative)
14. Ameer Thebo (Catchment Industry Representative)
15. Mir Furqan Ullah (Catchment Industry Representative)
16. Arjumand (Catchment Industry Representative)
17. Razia Anum (Catchment Industry Representative)
18. Yasir (Catchment Industry Representative)
19. Ahsan khan (Catchment Industry Representative)

1.4 Speakers

1. Mr. Zeeshan Mazahir (Manager EHS & Sustainability, AFGI-Denim)
2. Love Kumar (WWF)

1.5 Discussed points

- Introduction to AWS-Alliance for Water Stewardship
- Goals of AWS-Alliance for Water Stewardship
- Current Water Challenges, Globally
- Overstressed Aquifer in the World
- Current Water Challenges in Pakistan
- AGI-Denim Introduction
- What AGI-Denim achieved so far in terms of sustainable resource consumption
- AGI-Denim sustainable Laundry setup
- AGI-Denim sustainable chemical management
- AGI-Denim Wastewater Treatment Plant & Recycling
- AGI-Denim services to the community
- Our role in dealing with the shared water challenges
- What difference can be made with the joint efforts through water stewardship project?

1.6 Challenges & Opportunities

In the discussion with the stakeholder, those participated in the session, it was mutually accepted water shortage threat and showed their willingness to participate for the conservation of this Natural asset.

But the major challenge which was concluded in the meeting, with in the 3-km neighborhood from our company diversified water related issues were identified and also mentioned by the community representatives, among which, Sanitation and Hygiene and Accessibility Water tops the priority list by these representative.

1.7 Way forward

Therefore, after closely conducting this meeting it is being discussed at management level, so that we can list all possible projects that are being faced by the people residing to our company's neighborhood. The project that will be adopted and implemented that is able to facilitate majority of the population in the neighborhood and as well as best suited for water stewardship and conservation for sustainable Environment.

2 Annex

2.1 Invitation Letter



Artistic Garment Industries with the collaboration of WWF Pakistan, pleased to invite you for the webinar on Water issues under Alliance for Water Stewardship Project.

Topic: Stakeholder Meeting for shared Water Challenges under AWS Project
Time: Jun 17, 2020 03:00 PM
Join Zoom Meeting:
<https://us02web.zoom.us/j/5754192101?pwd=NWtTN2NwN1UxOURvTkgvOVFJSzRtZz09>

Meeting ID: 575 419 2101
Password: 111222

For further Details;
Email: Sustainability@artisticgarment.com
Phone: (+92) 345 6434667





Good Water Governances



Sustainable Water Balance



Good Water Quality Status



Important Water-Related Areas



Safe Water, Sanitation And Hygiene For All (WASH)

With Collaboration:




International Labour Organization




A project funded by the European Union

Figure 2: Invitation Letter for the Webinar

2.2 Agenda

- To introduce all the stakeholder with the AWS-Project
- To aware regarding the water scarcity worldwide and in our country and ultimately in our catchment
- To aware the stakeholders regarding their input for the shared water challenge
- To convince the stakeholders to share the details of everyday challenges they face regarding the water consumption and to find out the solution.

2.3 Handouts of Presentations as delivered



Stakeholder Meeting on Water Challenges & Opportunities

CONDUCTED BY: ARTISTIC GARMENT INDUSTRIES (PVT.) LTD.

COLLABORATION WITH: WWF- PAKISTAN



Figure 3: AWS Presentation Slide #1

Alliance for Water Stewardship

Growing populations and economies, changing lifestyles and global climate change are putting increasing pressure on our water resources. Major water users, governments, cities and citizens all recognize the urgent need to work together to ensure the sustainability of this vital resource on which we all depend. Water stewardship enables water users to work together to identify and achieve common goals for sustainable water management and shared water security.



AWS – Five Standards

Figure 4: AWS Presentation Slide #2

What would we Achieve?



Figure 5: AWS Presentation Slide #3

Current Water Challenges, Globally

- **2.2 Billion** people lack access to safely managed drinking water services. (WHO/UNICEF 2019)
- Over half of the global population or **4.2 Billion** people lack safely managed sanitation services. (WHO/UNICEF 2019)
- **297,000** children under five die every year from **Diarrhoeal** Diseases due to poor **Sanitation, Poor Hygiene, or Unsafe Drinking Water**. (WHO/UNICEF 2019)
- **2 Billion** people live in countries experiencing high water stress. (UN 2019)
- **90%** of natural disasters are weather-related, including **floods** and **droughts**. (UNISDR)
- **80%** of **wastewater** flows back into the ecosystem **without** being treated or reused. (UNESCO, 2017)
- Around **Two-thirds** of the world's trans-boundary rivers do not have a **cooperative management framework**. (SIWI)
- Agriculture accounts for **70%** of global water withdrawal. (FAO)
- Roughly **75%** of all industrial water withdrawals are used for energy production. (UNESCO, 2014)

FIGURE 6: AWS PRESENTATION SLIDE #4

Overstressed Aquifer in the World

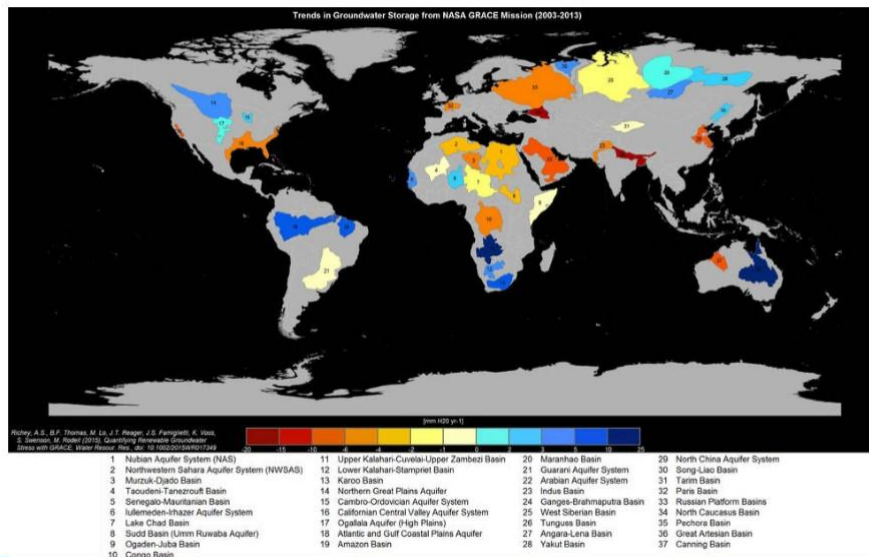


Figure 7: AWS Presentation Slide #5

Current Water Challenges in Pakistan

- Water resources of **Pakistan**: Indus River, Jehlum River, Chenab River, Ravi River, Bass River, Suttlej River.
- 64% of Pakistanis are deprived of Safe and Clean Drinking Water (World Bank Report 2019)
- **Pakistan** touched the "**Water Stress Line**" in 1990 and crossed the "**Water Scarcity Line**" in 2005. It is expected that, **Pakistan** will reach absolute water scarcity by **2025**. (UNDP & PCRWR, 2016).
- Per capita surface water availability has declined from **5,260 cubic meters** per year in 1951 to around **1,000 cubic meters** in 2016 (National Water Policy, 2018)
- Today, Pakistan's per capita annual water availability is **1,017 cubic meters** — perilously close to the scarcity threshold of **1,000 cubic meters** (IMF, 2019).
- This quantity is likely to further drop to about **860 cubic meters** by 2025 marking our transition from a "**Water Stressed**" to a "**Water Scarce**" country.

Figure 8: AWS Presentation Slide #6

Who We Are?

Artistic Garment Industries (Pvt.) Ltd. Established in 1949 in Karachi, Artistic Garment Industries is one of Pakistan’s leading premium denim manufacturers. As a market leader, keeping abreast of the changing times, we produce quality denim in an innovative culture that seeks out and uses only the latest equipment and machinery to contribute in conservation of environment and it’s resources.



Figure 9: AWS Presentation Slide #7

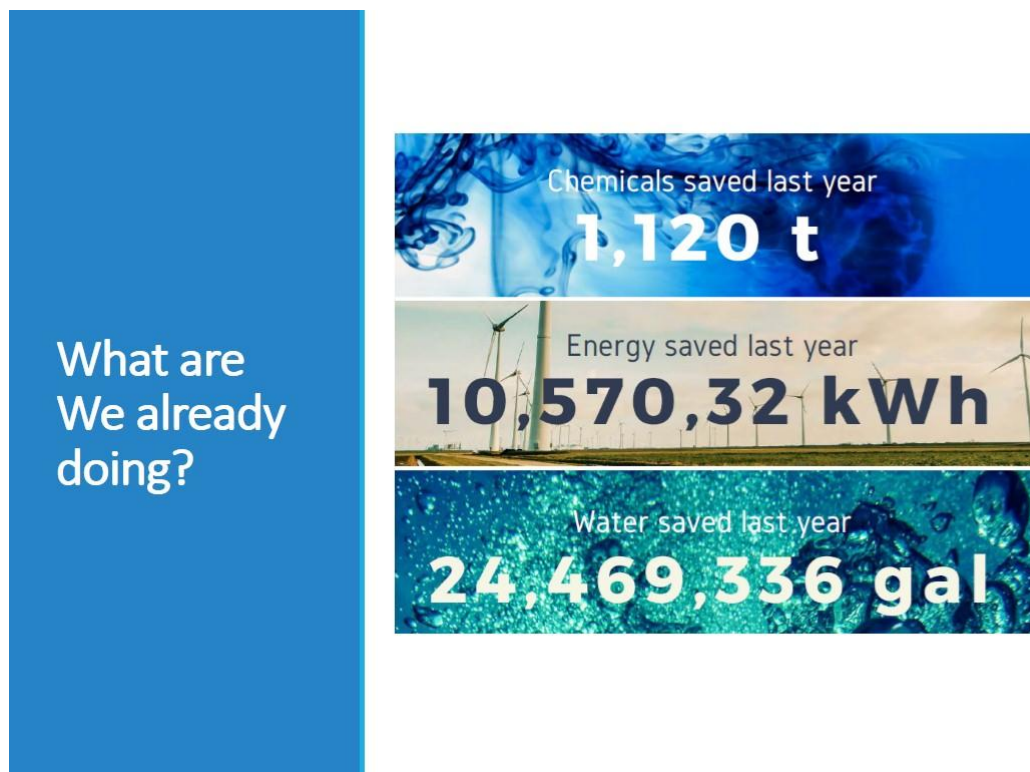


Figure 10: AWS Presentation Slide #8

Laundry

- Water saving through methods of efficient liquor ratio (i.e. 1:3 instead of 1:6 or 1:8) and green chemistry.
- Using 14 Yilmak Rain Forest(RF-400) series energy and water efficient washing machines.
- Equipped with total 7 JEANOLOGIA & VAV Ozone washing machines.
- 22 State of the art JEANOLOGIA laser machines.



Figure 11: AWS Presentation Slide #9

Laundry

- Eco-friendly energy efficient opti-dryer with advance humidity control.
- Recovery of caustic that minimizes pollution load.
- Double Zero technology, a true zero wastewater process by using minimum required water to allow dyes to penetrate the fabric , finishing water is evaporated at the end of the process or recovered resulting in zero discharge of water.



Figure 12: AWS Presentation Slide #10

Chemicals

- Working on ZDHC to achieve zero discharge of hazardous chemical by 2020.
- Working on Bureau Veritas Environment Emission Evaluator (BVE3) to screen out chemical inventory.
- Working on replacing the conventional chemicals with sustainable ones that consumes less water and reduce waste quantity.
- Compliant with Restricted Substance List / Manufacturing Restricted Substance List
- EIM (Environmental Impact Measuring) is a software from Jeanologia that assess garment finishes for their impact on the Environment.
- The report accounts for energy consumption, water consumption, chemical consumption and worker impact and it is being offered to all EU brands.

Figure 13: AWS Presentation Slide #11

Wastewater Treatment Plant & Recycling

- Wastewater treating capacity 1.6 million gallons per day to reduce the pollutant load on environment.
- New highly advanced wastewater treatment plant based on MBBR technology is under construction with a capacity of 1 million gallons.



Figure 14: AWS Presentation Slide #12

Recycling Plant

- Tertiary treatment process is conducted by recycling 40% of the effluent discharged from our facility.



Figure 15: AWS Presentation Slide #13

Mangrove Plantation







<p>Helps Endangered Species The forest acts as valuable nursery area for fish, invertebrates & birds</p>  <p>Carbon Sink & Sequestration They reduce pollution levels, as they absorb various elements, including heavy metals</p>  <p>Clean Water Their complex root systems filter nitrates and phosphates that rivers carry to the sea</p> 	<p>Food for the Multitudes Tons of leaves fall from its trees and they become the basis of an incredibly productive food web</p>  <p>Shelter from the Storm Provide a buffer zone that protects the land from wind and wave damage</p>  <p>A Stable Coast These trees stabilize shorelines against erosion, collecting silt and sediment</p> 
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FIGURE 16: AWS PRESENTATION SLIDE #14

What can we do About this?

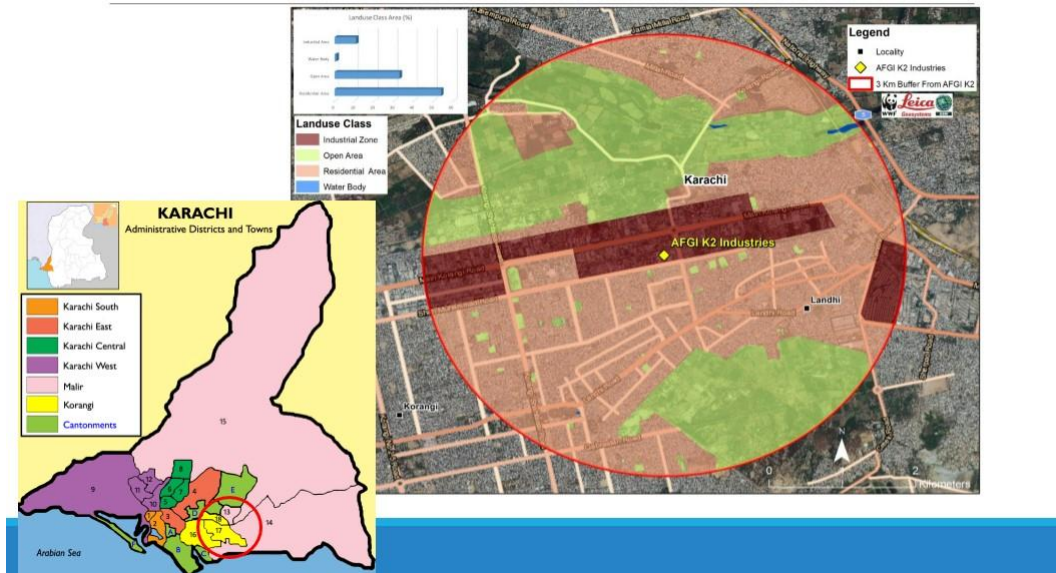


Figure 17: AWS Presentation Slide #15

What is our Role?

Good water stewards understand their own water use, catchment context and shared risk in terms of water governance, water balance, water quality and important water-related areas; and then engage in meaningful individual and collective actions that benefit people and nature.

-Alliance for Water Stewardship

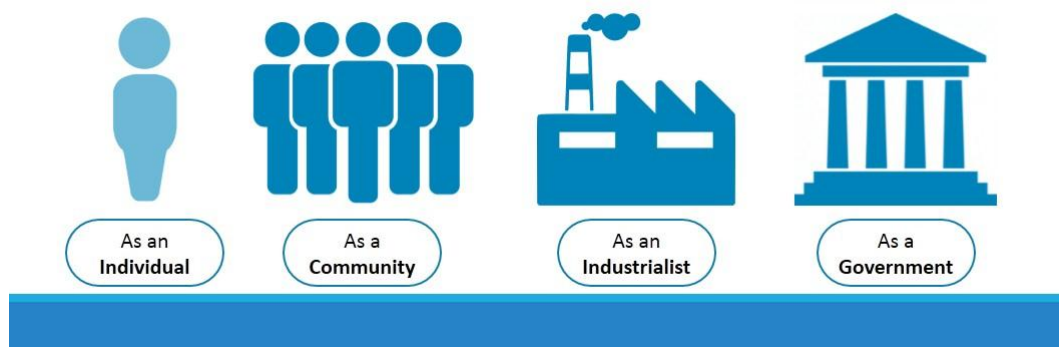


Figure 18: AWS Presentation Slide #16

Together we can make a Difference!

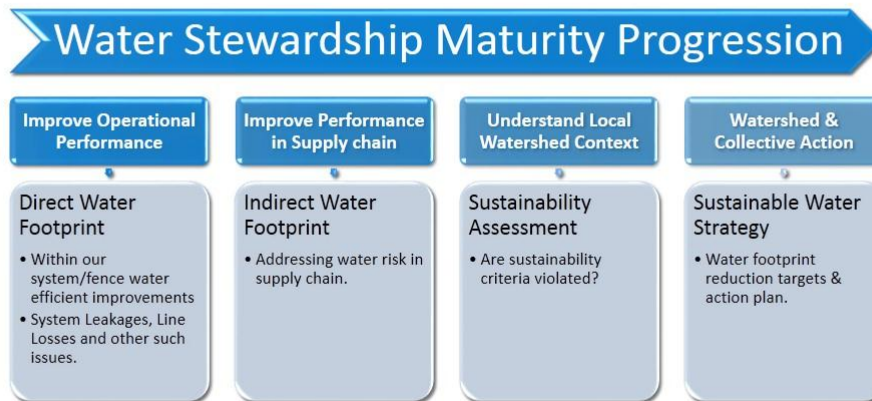


Figure 19: AWS Presentation Slide #17



AGI DENIM

**Thank You,
For Your Participation!**

**Any
Questions?**

Figure 20: AWS Presentation Slide #18

2.4 Attendance Sheet Scan

Artistic Fabric and Garment Industry Pvt Ltd.					
Training Record Attendance					
Dept:				Topic: <i>AWS - Project Stakeholder Meeting</i>	
Date: <i>17-Jun-2020</i>				Unit:	
S.No	Token #	Employee Name	Designation	Signature of Trainee	Signature of Trainer
1		Mehals (Community)		<i>[Signature]</i>	
2		Islam (u)		<i>[Signature]</i>	
3		Achil (u)		<i>[Signature]</i>	
4		Ashwika (u)		<i>[Signature]</i>	
5		Kainat (u)		<i>[Signature]</i>	
6		Saswat Rehman	Industry	<i>[Signature]</i>	
7		Afshien Rizwan	"	"	
8		Mursaleen	"	"	
9		Ahreez Thebo	"	"	
10		Furyan Ullah	"	"	
11		Love Kumar	WWF	"	
12					
13		Zeshan Nazahir	Organiser (AGI-DENIM)		
14		Mahood Tawal	"	"	
15		Bazi M. Hossain	"	"	
16		Arijmand			
17		Razia Anum		Yumec textile	
18		Yaqub			
19		AhsanIChau			
20					

Doc. #: EMS-S/P-10-02, Rev #: I.R, Rev. Date: 01-Jan-2018

Figure 21: Attendance Record for the Webinar

2.5 Pictorial Evidence

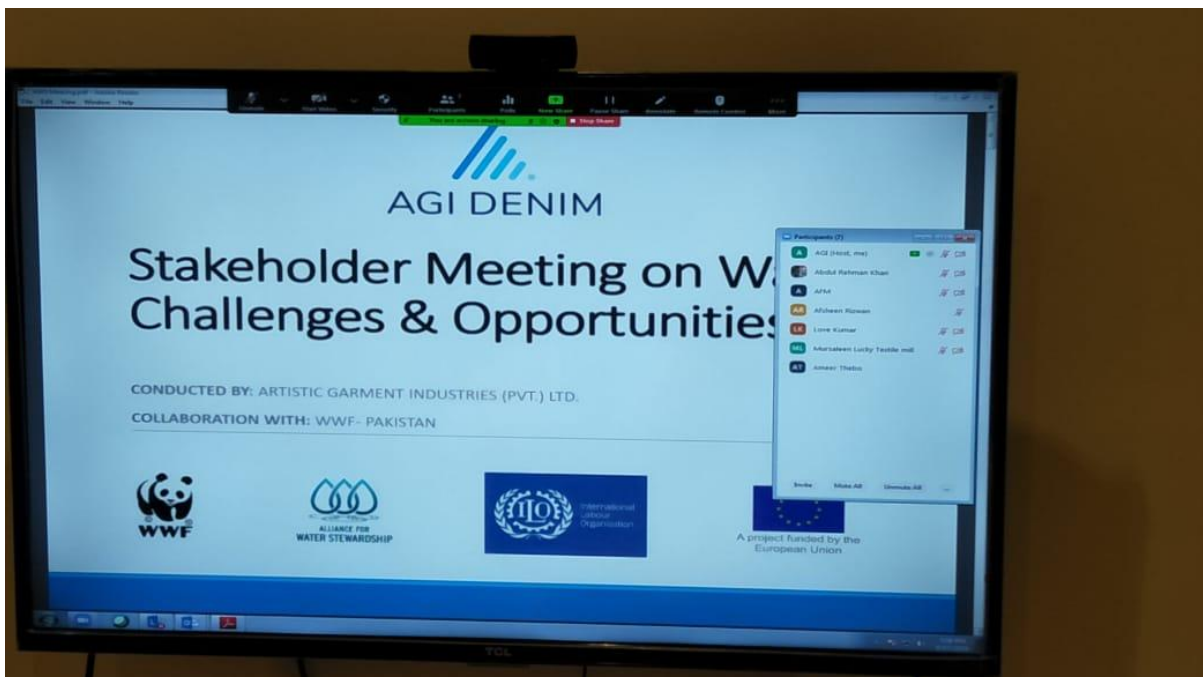


Figure 22: Pictorial Evidence #1



Figure 23: Pictorial Evidence #2



Figure 24: Pictorial Evidence #3

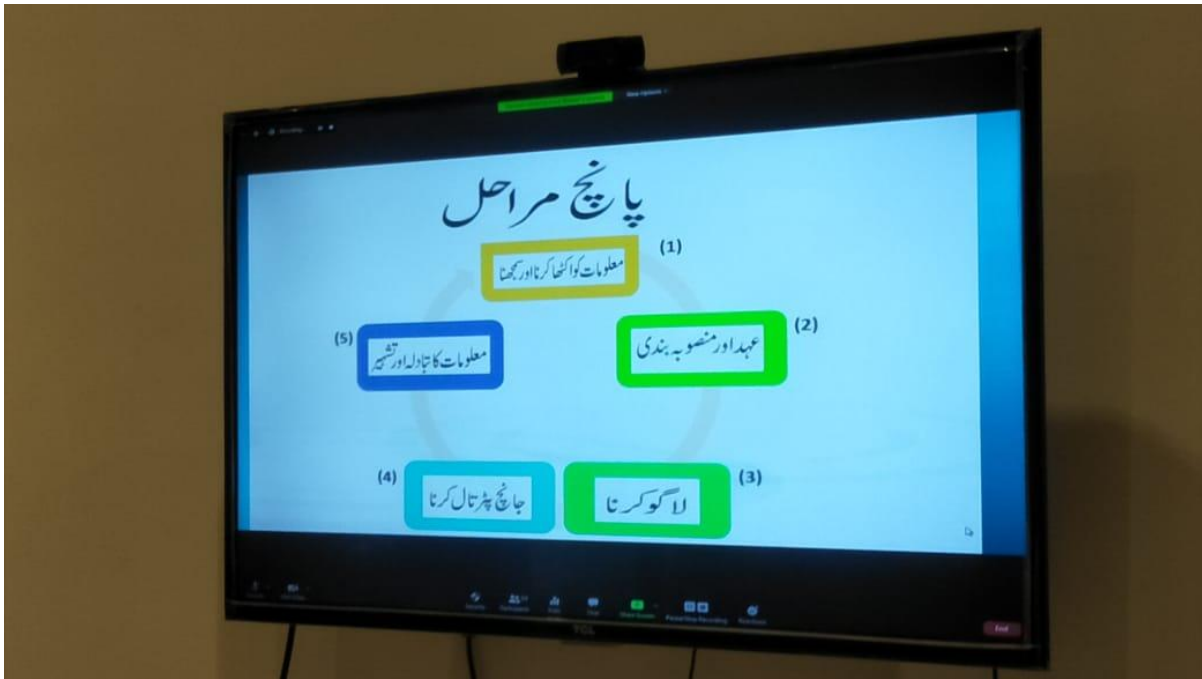


Figure 25: Pictorial Evidence #4



Figure 26: Pictorial Evidence #5



Figure 27: Pictorial Evidence #6