

The Rose Dresses Ltd./ Islam Garments Ltd./ Islam Dresses Ltd.

Introduction:

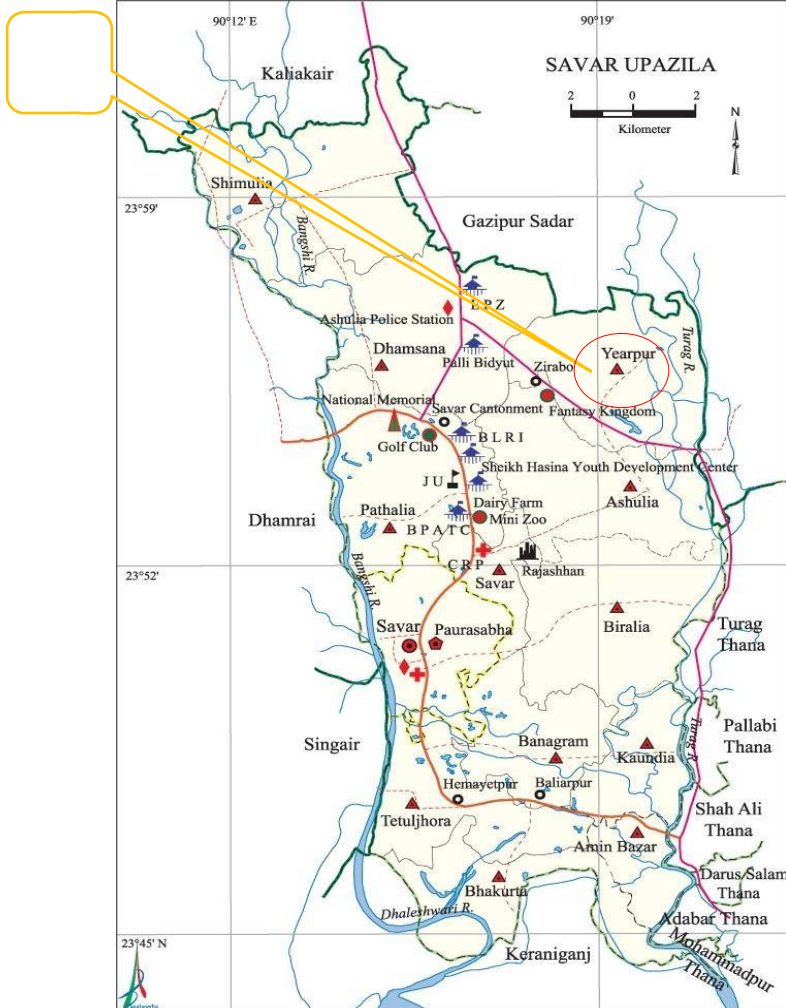
Islam Group of Industries started its journey as a house of Readymade Garments (RMG) engaged in manufacturing and exporting of Woven & Knit Apparels both bottom & top garments factory since March 2006 and has been considered today as one of the biggest conglomerates with substantial establishment of its backward linkage of all kinds of knit & woven garments, textile, wet processing & garments accessories. It has the state of art vertically integrated garments manufacturing facility which ensures one stop service to the buyers. We have established ourselves as an important garments manufacturer for a number of renowned brand apparels of Europe, USA, Asia, Australia and Africa.

The industry is adding to the present readymade garments production of the country as well as providing employment to a substantial number of personnel. The total manpower of TRDL is 6000 including worker & stuff.

The existing facility of TRDL is located at Jamgara, Yearpur, Ashulia, Savar, Dhaka, Bangladesh. Total land area is 355.5 decimal. However, this is a well-recognized fact that each development activity has an impact on the natural molding of the environment. Though development activities are of prime importance for the economic growth and fulfillment of basic needs of the society, the environmental aspects & impacts must also be taken into account and due attention must be paid to protect the environment.











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Existing project location












Environmental Policy of The Rose Dresses Ltd.

The Rose Dresses Ltd. is committed to take environmental, health and safety matters as an integral part of its business. It is the policy of the organization to run its business in a responsible, environmentally sound and sustainable manner in production, service and activities all times. We, at the Rose Dresses Ltd., endeavor to,

-  comply with all applicable laws and regulations
-  implement programs and procedures to assure compliance
-  employ management systems and procedures specifically designed to prevent activities and conditions that pose a threat to human health & the environment
-  optimize resources use and reduce resources consumption by implementing efficient technologies
-  prevent releases to the environment
-  minimize the amount of waste production and its impacts on the environment and consumption of natural resources
-  communicate our commitment to the environment to the workforce, vendors, buyers and other stakeholder
-  seek their input from all involved in achieving the environmental goals
-  continuously improve effort to create a sound and safe environment
-  try to find opportunities to improve our observance to these principles and periodically report progress to the relevant party(ies).

Objective & targets:

With respect with our environmental policy following are the targets,

-  Optimize water usage and collect/harvest rainwater to reduce groundwater consumption by 15% within 2023
-  Optimize resource utilization to reduce energy consumption by 26% & GHG emission by 27% within 2023
-  Reduce and improve air quality by implementing new technologies within 2023.
-  Reduce 5% fuel consumption and switch to low emission fuel for vehicles by 2023.
-  Upgrade wastewater management system and installation of STP by 2024.
-  Implementation 3R (Reduce, Reuse & Recycle) concept and use 2% recycle content in production by 2024.
-  Reduce waste quantities 30% for Jhut and overall 5% for all waste by 2023.
-  Reduce the chemical(production & non production) consumption 25% by 2023
-  Find out the alternate safe chemical (production chemical) by 2022.

Energy & GHG Emission:

Rose Dresses Ltd depends on REB for its electricity consumption. Besides REB, it has five generators to ensure its electricity supply. 2017 is the baseline year. In 2017 our energy consumption was 14,494,737Kwh and total production was 18,774,000 pcs. We calculated 1,969 tons of CO₂e as greenhouse gas emission during the baseline year. Our baseline KPI (normalized) for energy consumption is 0.77 Kwh/pcs and GHG emission was 0.104kg/pcs. We believe that we have some responsibility to protect our environment. From this responsibility, we take an initiative to reduce our energy consumption and GHG emission gradually.

Energy Consumption Reduction target:

- The Rose Dresses Ltd will reduce its energy consumption at least 22% per pcs from baseline within 2023.
- The Rose Dresses Ltd will reduce its GHG emission at least 23% per pcs from baseline within 2023.

Energy & GHG reduction target detail:

- Installation of energy efficient lighting within December, 2018.
- Proper insulation of missing surfaces and correcting steam leaks within December, 2018.
- Installing appropriate steam traps within December, 2018.
- Steam condensate recovery program in building 01 within March, 2019.
- Steam condensate recovery program in building 02 within July, 2022.
- Switch clutch motor to servo motor within December, 2021.
- Chiller from exhaust heat of gas generator within May, 2022.
- Switch low emission fuel sources, schedule maintenance, December, 2023.

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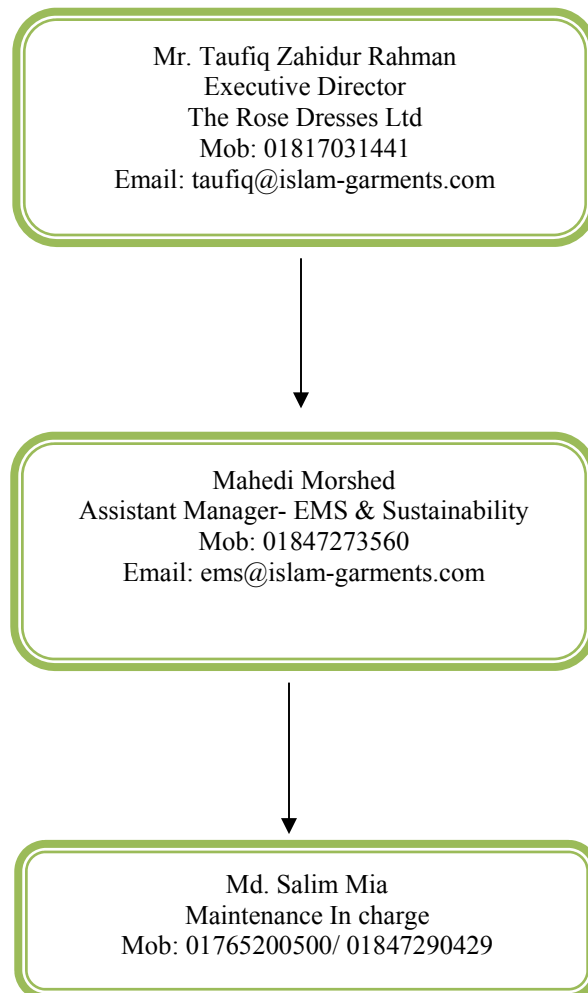
Plan for reduction of Energy Consumption & GHG Emission Reduction:

Base year	2017						
End Year	2023						
Baseline production	18,774,000 pcs						
Baseline energy consumption	14,494,737 Kwh						
Target	Energy usage reduction by 22% & GHG emission reduction by 23% from baseline						
Targeted Source	Action plan	Estimated cost (Tk.)	Completion date	Estimated energy saving	Estimated GHG emission reduction	Percentages (%)	Remarks
Natural Gas	Steam condensate recovery program in Building 01	4,200,000.00	31 st March, 2019	1,301,659 Kwh	749 tons of CO ₂ e	9	Target for 2019
	Steam condensate recovery program in Building 02	3,000,000.00	31 st July, 2022	412,335 kwh	237 tons of CO ₂ e	3	Target for 2022
	Chiller by exhaust heat of Gas Generator	33456000.00	31 st May, 2022	1,272,000 kwh	592.62 tons of CO ₂ e	9	Target for 2022
Electricity	Switch from clutch motor to servo motor	1,275,000.00	31 st December, 2021	57,400 kwh	33 tons of CO ₂ e	0.4	Target for 2022
Fuel Consumption	Switch low emission fuel sources, schedule maintenance	200,000.00	31 st December, 2023	5392 kwh	3.1 tons of CO ₂ e	0.1	Target for 2023

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Management team:

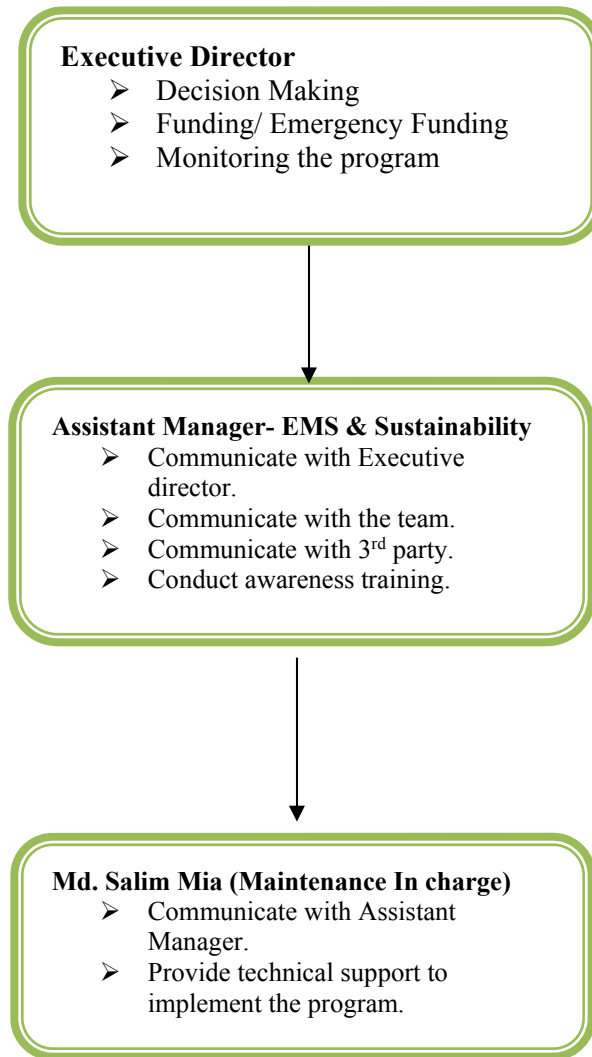
The Rose Dresses Ltd assigns a team to implement the Energy & GHG reduction program.



Energy & GHG reduction Team of The Rose Dresses Ltd

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Responsibilities:



Responsibilities of Team

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Water Consumption Reduction Program:

The Rose Dresses Ltd is a cut to pack factory. It uses water for operational and domestic purpose .The operational process includes boiler, cooling tower, and domestic purpose includes drinking, toilet and car washing. It has three water meter to measure the water withdrawal form groundwater. In 2017, the total water consumption was 107085m³ and total production was 18,774,000 pcs. Our baseline KPI (normalized) for water consumption is 0.0057m³/pcs. We believe that we have some responsibilities to protect our environment. From this responsibility, we take an initiative to reduce our consumption gradually.

Water Consumption Reduction Target:

The Rose Dresses Ltd will reduce its water consumption at least 15% per pcs from baseline within 2023.

Water Consumption Reduction Target Detail:

- Factory will find out and repair all of the leakage in pipeline within December, 2018.
- Factory will take initiative to aware all the employee about water management system by providing training on regular basis.
- Replace conventional taps to press taps within January, 2019.
- Install water trigger nozzle in cleaning pipe within March, 2019.
- Water saving from condensate recovery program in building 01 within March, 2019.
- Water Saving from condensate recovery program in building 02 within July, 2022.
- Complete rainwater harvesting system within November, 2023.

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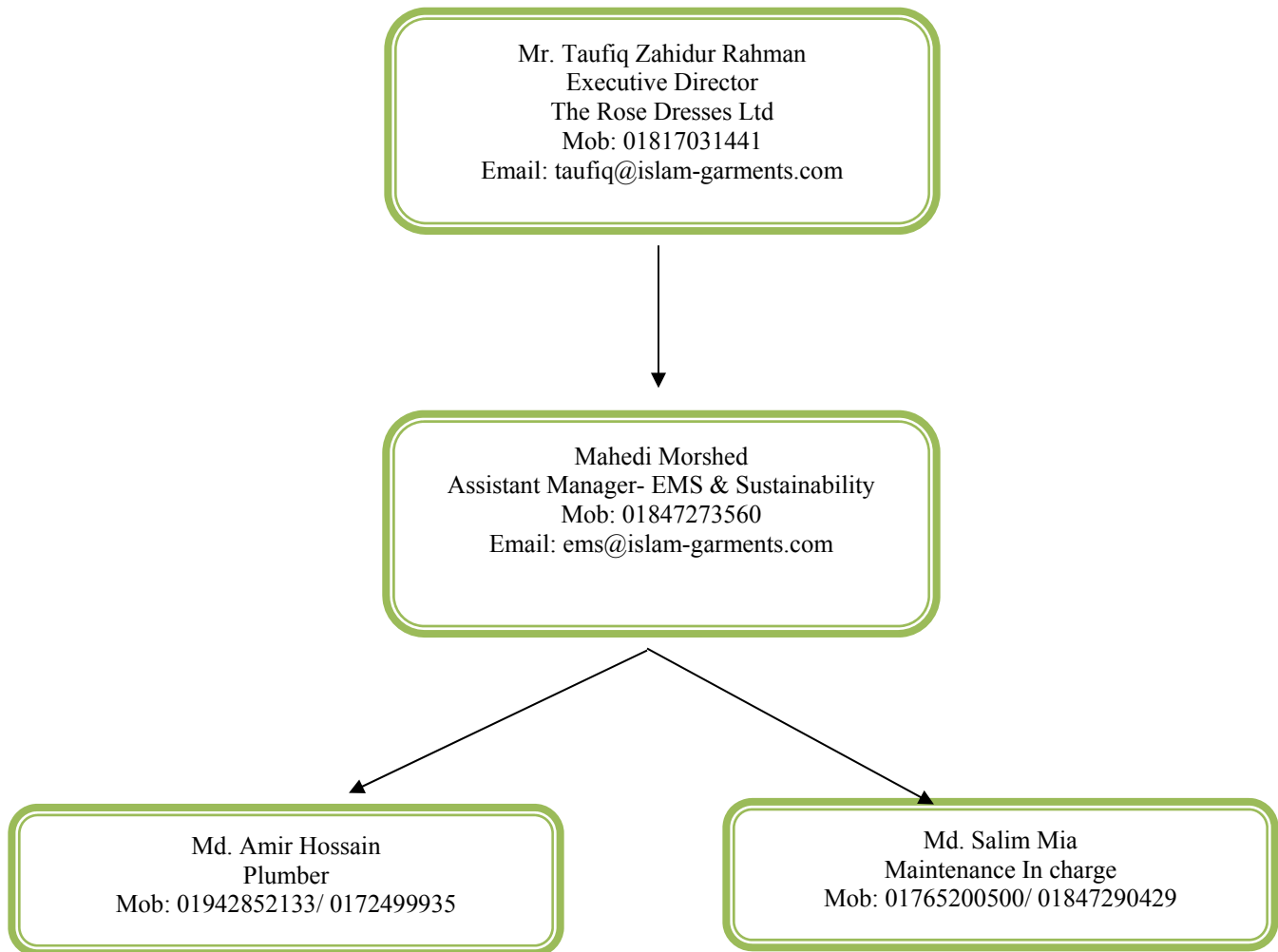
Plan for reduction of Water Consumption:

Base year	2017					
End Year	2022					
Baseline production	18,774,000 pcs					
Baseline water consumption	107,085 m ³					
Target	Total water usage reduction by 15% from baseline					
Targeted Source	Action plan	Estimated cost (Tk.)	Completion date	Estimated saving	Percentages (%)	Remarks
Ground Water	Replace conventional water taps to press taps	44,625.00	31 st January, 2019	5,073 m ³	4.7	Target for 2019
	Install water trigger nozzle in car washing/toilet cleaning pipe	15,000.00	31 st March, 2019	318 m ³	0.29	Target for 2019
	Steam condensate recovery program in Building 01	4,200,000.00	31 st March, 2019	1,150 m ³	1.07	Target for 2019
	Steam condensate recovery program in Building 02	3,000,000.00	31 st July, 2022	550 m ³	0.5	Target for 2022
	Rain water harvesting System	3,000,000.00	30 th November, 2023	9,060 m ³	8.5	Target for 2023

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Water Management team:

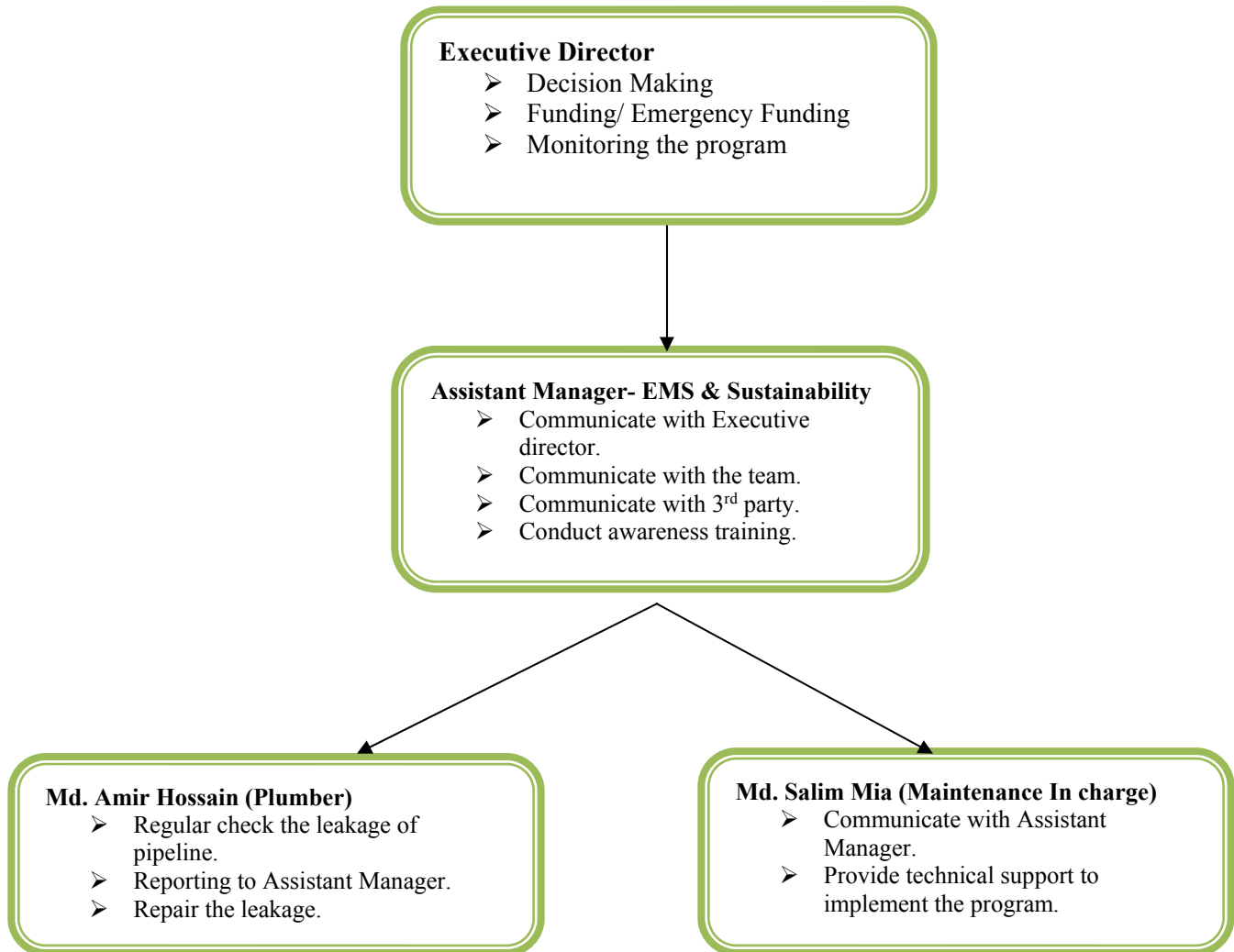
The Rose Dresses Ltd assigns a team to implement the water management program.



Water Management Team of The Rose Dresses Ltd

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Responsibilities:



Responsibilities of Water Management Team

Waste Reduction:

Every year a large amount of wastages is producing as a residual part of our operational and domestic purpose. We handover our non-hazardous waste to a waste contractor for reuse/recycle and hand over our hazardous waste to the authorized organization to dispose of this in an environmentally friendly way.

In 2018, we generated 1102746kg of non-hazardous (Production waste 1092228kg, domestic waste 10518kg) and 1706 kg (production waste 127kg, domestic waste 1579kg) of hazardous waste. However, we will increase our monitoring of our waste contractor for a better waste management system.

We want to reduce our waste production and will set our absolute reduction target.

- We will track and maintain all type of waste in the inventory within 2019.
- Reduce the solid waste (Jhut & Paper) amount of 30% from our baseline within 2021.
- Reduce non-hazardous solid (plastic, cartons, metal, glass, chot, wood, food) waste 5% from the baseline by 2023.
- Reduce hazardous (empty chemical container, ink cartridge, electric waste & medical) waste 5% by 2023.

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Waste reduction implementation plan:

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Type of waste	Location	Items	Disposal Method	Baseline 2018 (kg)	Reduction Target	Reduction Amount(kg)	Activities	Deadline
Non-Hazardous Waste	Production	Jhut	Sold to waste Contractor	1035109	30%	310533	IE expert, awareness prog	2021
		Poly/Plastic		9258	5%	463	Awareness program, reuse	2023
		Cartons		47848	5%	2392	Awareness training, reuse	2023
	Domestic	Metal		5974	5%	299	Construction activities	2023
		Paper		24	5%	1	Both side print, e-communication	2021
		Glass		1854	5%	93	Construction activities	2023
		Chot		1310	5%	66	Awareness program	2023
		wood		940	5%	47	Construction activities	2023
		Food	Tnf to Gov. dustbin	416	5%	21	Awareness prog	2023
Hazardous Waste	Production	Empty chemical containers	Sold to waste Contractor	99	5%	5	Root cause analysis & Cleaning activities	2023
		Ink cartridges		478	5%	24	Reduce unnecessary print, awareness	2023
		Empty containers		46	5%	2	Awariness program	2023
		Electronic Waste		409	5%	20	Reuse program	2023
		Medical Waste	Hand over to CWCH	216	5%	11	Training & Awariness	2023

Waste Disposal Method:

Every year a large number of wastages is producing as a residual part of our operational and domestic purpose. We handover our non-hazardous waste to a waste contractor to dispose of this in an environmentally friendly way. As we handover total waste to 3rd party we consider the 100% amount is dispose by landfill/Handover.

We are considering 2020 as the baseline for change in waste disposal methods. In 2020, we generated a total of 473708 kg of waste with hazardous and non-hazardous waste. We will categorize the waste into three groups.

- Reusable
- Recyclable
- Landfill

We consider the waste as reusable waste when it is used a second time by ourselves. Mainly we consider paper as reusable waste. In 2020 we had a total of 10kg of paper waste. It's approximately 0.002% of waste. We have planned to reuse some fabric waste by ourselves. For example, denim scrape can use a mouse pad, Jaymanj, and non-denim scrape as tissue.

Recyclable: In our factory, we are not recycling any waste by ourselves. Whatever we do, we hand over our recyclable waste to a 3rd party. The percentage of this disposal method is 89%.

Landfill: Open dumping is prohibited in our facility. But we know a small amount of waste is still reached on land when we hand over our food waste to the government dustbin. We have only 0.07% of waste categories as this type.

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Waste disposal method:

The Rose Dresses Ltd./Islam Garments Ltd./ Islam Dresses Ltd. Monthwise Waste Inventory- 2020					
Type of waste	Location	Items	Disposal Method	Total	
Non- Hazardous Waste	Production	Jhut	Sold to waste Contractor	422613	
		Poly/Plastic		3450	
		Cartons		38442	
		Cans		0	
	Domestic	Metal		6917	
		Paper		10	
		Glass		80	
		Chot		1127	
		wood		460	
		Food		Tnf to Gov. dustbin	327
Hazardous Waste		Production	Empty chemical drums and containers	Sold to waste Contractor	61
	Film and Printing Frame		0		
	Expired / unused / used chemicals		0		
	Compressed Gas Cylinders		0		
	Domestic	Batteries	0		
		light bulb	6		
		Ink cartridges	12		
		Empty containers	12		
		Electronic Waste	56		
		Waste oil/Burn mobil	0		
Medical Waste		Hand over to CWCH	135		
Total (kg)				473708	
		Present Disposal Method	Propose Disposal Method	percentage	Item
		Handover (100%)	Recycle by 3rd party	89%	Jhut
			Reuse by our self	0.002%	Paper
			Landfill	0.07%	Food waste

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Base year		2020			
End Year		2024			
Baseline Amount			Reuse: 10kg, Recycle: 422613 kg, Landfill: 327 kg		
Baseline method/ %	Target	Disposal Target	Action plan	Completion date	Responsible
Handover to 3rd Party (100%)	Reuse	11kg	Increase mail communication and reduce page size by 2021.	31 st December, 2021	EMS & IT
			Mandatory both size print/ use one side page for documentation by 2022.	31 st July, 2022	EMS & IT
			Use fabric waste as bags, mouse pad, jaynamj, tissue by 2024.	31 st December, 2024	Admin Manager
	Recycle	443743 kg	Sort out the recyclable waste by 2021	31 st December, 2021	EMS
			Communicate with waste collector to find out the final destination of this waste by 2023	30 th June 2023	EMS & Admin
			Ensure 100% recycle of this item by 2024	31 st December 2024	EMS & Admin
	Landfill	291 kg	Reduce food waste quantity by increasing awareness program by 2024	31 st December, 2024	EMS, welfare, Canteen

Chemical Management:

Chemical is an important element for garments production. Even our normal life is fully surrounded by chemical consumption. A lot of chemical is used in wet process unit. But in cut to pack factory we have less chemical consumption in production purpose. We use chemical mainly for spot cleaning purpose. Besides we have some chemical use in non-production activities. We believe every chemical has some impact on environment. We have some responsibility to our nature and future generation. That's influence us to think more about our environment and reduce our operational impact on environment as much as we can.

We set our targets with respect with chemical management.

- List down all chemicals (Production & non- production) use in the factory and complete inventory within July 2021.
- Complete the chemical risk assessment by August 2021.
- Established a procedure to check the conformity with ZDHC, H&M, Detox, STeP MRSL to ensure safe chemicals are use in the factory by August 2021.
- Sort out safe and unsafe chemical by September 2021.
- Communicate with supplier and eliminate the unsafe chemical by June 2022.
- Find out ZDHC/GOTS/certified chemical by June 2022.
- Root cause analysis of spot in the garments by December 2021.
- Effective training program established by January 2022.

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Plan for Reduction of Chemical Consumption:

Base year	2020		
End Year	2023		
Target	Reduce chemical consumption 25% by 2023 & alternative safe chemical by 2022		
Targeted Source	Action plan	Completion date	Responsible Person
Safe and alternative chemical sourcing	Collecting SDS and supporting document to complete the risk assessment & check with latest MRSL with relevant buyers	25 th August, 2021	Mahedi Morshed
	Check the CAS number with MRSL's requirement and list down the safe & unsafe chemical	29 th September, 2021	
	Find out ZDHC/GOTS/certified chemical	30 th June, 2022	
	Fulfil the information in chemical inventory	30 th June, 2022	
	Conduct emergency drill quarterly	30 th June, 2022	
	Purchase more appropriate PPE spill kits	31 st August, 2022	Md. Mahbub-ul-Alam
Reduction of chemical consumption	Find out the reason of spot increase in garments	1 st December, 2021	Mahedi Morshed
	Eliminate/ reduce the reasons responsible for spot	31 st December, 2022	
	Effective training for knowledge increase	31 st January, 2022	

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Implementation Plan of Air Quality & Replacement of R-22 AC

Base Year	2020					
End Year	2024					
Targeted Source	Action Plan	Estimated Cost(tk)	Completion Date	Estimated Energy Saving	Estimated GHG emission reduction	Remarks
Replacement of AC	Replace R-22 AC with R-410A/safe one	3,000,000.00	31 st December, 2024	N/A	N/A	Target for 2024
Natural Gas	Chiller from exhaust heat of gas generator	33,456,000.00	31 st May, 2022	1,272,000 kwh	592.62 tons of CO ₂ e	Target for 2022

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Septic Tank Upgrade Plan for The Rose Dresses Ltd:

Objective	Action Plan	Timeline	Responsible Person
Installation of STP by 2024	Review our existing drainages system and upgrade if necessary.	2020 to 2024	Civil Engineer of RDL
	Implementation a process to measure the accurate volume of wastewater.		
	Install water flow meter to track the wastewater quantity.		
	Test the wastewater quality before & after treatment.		
	Communicate with consultancy firms and collect quotation.		
	Select vendor and offer work order.		

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Responsible Person:

Implementation plan is directly being monitored by Director of Rose Dresses Ltd. He is responsible for decision taking, funding & regular monitoring of the project. He will assign a team to implement the target on a regular basis.

Responsible team:

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The Rose Dresses Ltd. is always concerned about its environment. The management is highly committed to run the production process in a sustainable way and always looking for new and safe technologies to protect our environment. The belief is – nothing is more important rather than our environment.

Approved by,


Taufiq Zahidur Rahman
Executive Director

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