







About the Programme

HCL Foundation, the corporate social responsibility arm of the multinational company HCL, was established in 2011. HCL Foundation aims to bring about a lasting impact in the lives of people through long-term sustainable programmes in WASH, education, health, livelihoods and environment.

With its corporate headquarters in NOIDA, UP and realising that there is a need for a long-term vision to manage solid, liquid waste, HCL Foundation has partnered with NOIDA administration to strengthen the city's waste management system and contribute in making it one of the cleanest cities in the country. For this, HCL Foundation has launched an initiative called Clean NOIDA and intends to carry out works and services to implement effective waste management in NOIDA city. This initiative aims to transform the city into a litter and waste free region, covering all the Residents Welfare Associations (RWAs), markets and urban villages.

> The major focus areas of the project are capacity building of relevant stakeholders, intensive behaviour change campaigns, awareness drives and technological solutions.

Introduction

Hi kids! Remember 3R? He was flying over Saaf Nagar when he saw a lot of water being wasted and also saw areas with polluted water. This really concerned him, so he called his friend Hoppy, the Frog to do something about it.

3R: Hoppy, there are so many areas in Saaf Nagar where water bodies are getting contaminated. This will lead to water shortage, water-borne diseases, and harm the environment. I need your help!

- Hoppy: Yes 3R. I too have seen many areas where water is polluted. I will go around Saaf Nagar and spread awareness on how to conserve water and prevent water pollution.
- **3R:** Good! You know, the United Nations recognises the importance of addressing the global water crisis each year on 22 March on the occasion of World Water Day. We should also be responsible and help raise awareness about access to safe water. This year's theme of World Water Day is Groundwater under which exploring, protecting and sustainably using groundwater will be central to surviving and adapting to climate change.
- **Hoppy:** Ok 3R, I will get going now to do my bit to address the problems related to water and find solutions. See you in Saaf Nagar!



Be Water Wise





able to convey how important it is for us to prevent water contamination or water pollution. Will you too do your bit to save this precious resource?



Four billion people — almost two-thirds of the world's population — experience severe water scarcity for at least one month each year.



Around 80% of India's water is severely polluted because people dump raw sewage, silt and garbage into the rivers and lakes.

S More than 6 billion pounds of garbage, mainly plastic, end up in the oceans every year.





3.2 million children under the age of five in developing nations die each year as a result of drinking unsafe water and poor sanitation.

Sasia has the maximum number of polluted rivers than anywhere else in the world.





Possible Solutions

Water crisis is the lack of fresh water resources to meet the standard water demand. When water is scarce, access to safe drinking water becomes difficult. This affects our day-to-day activities like practising basic hygiene at home, schools and in workplaces. A water crisis is inevitable if we do not do our bit to conserve water.

Shyam ji: Is there a way out?

- Hoppy: Yes, there is! Water recycling is one way. Water recycling is the process of collecting, treating and using wastewater, particularly from municipalities, industries and agriculture. The recycled water can be used for irrigation or industrial purposes.
- Komal Kaaki: I saw a pit in my neighbour's house; she said it was for water management. Is that also a form of water recycling?
- Hoppy: Yes, I think you are talking about the soak pit which filters grey water (domestic wastewater) and helps prevent the clogging of water bodies. Hoppy: Yes, there is!
- **Komal Kaaki:** Is it like a compost pit that 3R taught us about?

Hoppy: The soak pit partially filters the waste water that is generated from domestic use. It is built underground and is closed, rectangular or circular in shape, kind of covered-up construction within walls, built with porous materials like soil, silt, clay, etc.

Komal Kaaki: Where can we build it?

- **Hoppy:** The soak pit can be connected to the primary treatment unit or directly connected to the washroom. It allows the surface water to slowly penetrate into the ground, percolating through the porous materials, thereby recharging the groundwater.
- **Shyam ji and Komal Kaaki:** Thank you Hoppy. We will also consider making a soak pit in our house.



Baarish ki har boond, hai zaruri

(Darshan sir discussing about rainwater harvesting with Komal Kaaki)

Komal Kaaki: Darshan sir, all this water wastage is bothering me.

Darshan sir: Rainwater harvesting is a simple process used to conserve rainwater by collecting, storing and purifying the water that flows from rooftops, parks, roads, open grounds, etc. for later use.



Komal Kaaki: How do we collect the flowing rainwater?

Darshan sir: The process of rainwater harvesting involves the collection and storage of rainwater with the help of artificially designed systems that run off naturally or man-made catchment areas like the rooftop, compounds, rock surfaces, hill slopes, artificially repaired impervious or semi-impervious land surface. Most buildings that utilise rainwater harvesting systems have a built-in catchment area on the rooftop. Komal Kaaki: How does this process help in water conservation?

Darshan sir: Rainwater harvesting is a very effective method of conserving natural water and replenishing the groundwater level. In this method, the rainwater is collected and allowed to percolate into a deep pit or

a reservoir, so that it seeps down and improves the groundwater table.

It reduces soil erosion and flood hazards by collecting rainwater, and reducing the flow of stormwater to prevent urban flooding.

Komal Kaaki: For what purpose can we use this purified water?

Darshan sir: This harvested rainwater can be used for irrigation, washing, cleaning, bathing and also for other livestock requirements.



What can I do to help conserve water?



ACTIVITY 1 Poem on Water Conservation or Water Pollution



Hi Kids! Tell us what you think about Water Conservation or Water Pollution by writing a poem in Hindi or English. The poem should not exceed 400 words. This activity is for kids only. Take a photo of the poem that you have written and send it to 9667743455 with your name, address and contact details. The best poem will win exciting prizes.





Fill in the crossword puzzle using the clues below:



Clues

Across

- 1. Water pollution is the contamination of water bodies.
- 2. Each year, World Water Day is celebrated on 22 March.
- 3. One of the main sources of water is groundwater.
- 4. Contaminated water causes diseases like Cholera.
- 5. Rainwater harvesting is an effective way of conserving natural water.
- Factories dispose chemicals into rivers and streams leading to water contamination.

Down

- Recycled water can be used for irrigation.
- 2. The soak pit allows the surface water to slowly penetrate into the ground.
- 3. Water pollution leads to water crisis.
- Stagnant water leads to mosquito breeding which results in diseases.



This activity is for kids only. Take a photo of the solved puzzle and send it to 9667743455 with your name, address and contact details. Entries with correct answers will win exciting prizes.

ACTIVITY 3

Find all the 12 hidden words related to water crisis and conservation of water.



This activity is for kids only. Take a photo of the solved puzzle and send it to 9667743455 with your name, address and contact details. Entries with correct answers will win exciting prizes.

X	С	0	Ν	Т	А	Μ	Ι	Ν	A	Т	Ι	0	N
W	G	C	0	Ν	S	E	R	V	Α	Т	Ι	0	N
0	S	Α	Α	F	N	Α	G	А	R	L	F	Т	D
R	Р	X	G	L	0	Н	R	V	N	X	U	Ι	F
L	U	Р	R	N	Z	E	E	Y	D	Ι	L	A	R
D	Ν	0	0	R	E	C	Y	С	L	Ι	N	G	E
W	С	L	U	Α	K	K	w	R	E	U	S	E	S
Α	L	L	Ν	Y	Z	v	Α	F	S	С	L	R	Η
Т	0	U	D	W	R	Q	Т	N	G	J	S	N	W
E	G	Т	W	E	0	U	E	Z	S	R	Η	K	A
R	G	Ι	Α	Ι	Х	G	R	0	U	В	Ι	R	Т
D	Ι	0	Т	А	Q	W	W	А	S	Т	А	G	E
Α	N	N	E	D	D	Q	В	Η	Z	U	K	L	R
Y	G	R	R	W	А	V	Q	М	F	K	Т	R	Т





Dear kids, use your knowledge and ideas to make a Poster on Water Conservation.



This activity is for kids only. Please take a photo of the poster and send it to 9667743455 with your name, address and contact details. The best poster entry will win exciting prizes.



LET'S LEARN

Make a water filter to see how dirty water comes out clean through the process of filtration.

What you will need:

- 1. Plastic bottle cleaned and dried
- 2. Knife
- 3. Dirty water make your own with water and mud
- 4. Cup
- 5. Spoon
- 6. Filter materials small stones and cotton balls
- 7. Old sock, napkin or paper towel

Directions

- 1. Cut the plastic bottle into half (take the help of an adult, if required).
- 2. Take out the cap and flip the bottle's top half over and put it in the bottom half so the top looks like a funnel.
- 3. Place the sock or napkin at the bottom of your filter.
- 4. Add stones, cotton balls in layers. You can make as many layers as you like.
- 5. Stir your dirty water and pour a cup of dirty water into the filter.
- 6. Observe how long the water takes to go through the filter.
- 7. Once all the water has trickled down into the bottle, take out the filter materials, one at a time. You will see what each layer looks like when you take it out of the water.

The longer it takes for water to move through a filter, the cleaner it gets. **Your filtered water is not clean enough to drink,** but now you know how the process of filtering works!











List of 100 winners from previous edition *Let's make the city CHAKACHAK*

Shalini Rai Pritha Chauhan Jagdeshwari Swati Dixit Amrit Rajput **Rishit Kanodia** Rohit **Kasif** Khan Radhika Chauhan **Kumkum Chaudhary** Deepanshu Saini Aarav Sinha Naina Annu Janvi Chhavi Arshita Sengar **Hitesh Mehra** Krishna Vanshika Tiwari Geetaniali Kunal Khushi Chaiuhan **Teestha Singh** Sadhana

Laxman Vaibhay Tiwari **Dev Mandal** Urvashi **Devansh Agrawal** Hemant Abhishek Vipullaxmi Kapoor Vaishnavi Sharma Saloni Prasad Maira Shadab Sakshi Ashish Samridhi Maru Twinkle Farin Khan Samridhi Garg **Dinesh Chauhan** Tayaba Parveen **Ranvee** Jain Ayushi Priya Krishna Aarav **Payal Tanwar** Anjali Kumari

Aruhi Gupta Simran Puspa Kumari Anmol Singh **Ritik Aggarwal** Aditya Kumar Sonu Kumar Shivam **Rishabh Kumar** Khushboo Ankush Kumar Khushbhoo Prince Kataria Sakshi Tushar Chauhan Ayush Yug Sharma Ravi Kumar **Divyaansh Dave** Anshul Tripathi Lavish Vihaan Rawat **Akshat Pandey** Ravi Athary Mehrotra

Kajal Kohinoor Aman Yaday Aadesh Krishna Harsh Pandit Divyanshi Aarna Gupta Ojas Maheswari Saksham Tiwari Ritish Kumar Apoorv Mauyra Antriksh Pandey Sona Samriddhi Jain Priya Saksham Maurya Disha Jain Shivani Yadav Darsh Agarwal Avni Khatri Soni Yadav Nikita Soni Preesha Jain **Tanmay Kedawat**

The last date for submission of entries is 31 July 2022.