

About

Jeevitnadi – Living River Foundation

'Jeevitnadi' started as an informal group of people passionate for River Conservation in 2014. In 2016, the group acquired the status of a non-profit section-8 company as 'Jeevitnadi-Living River Foundation'.

Since beginning, the mission of Jeevitnadi has been Revival of Rivers through public participation.

Over the last 3-4-year span, Jeevitnadi has been playing instrumental role in changing the perception of common people towards the river and recreating the lost relationship of society and the rivers in Pune city.



www.jeevitnadi.org

LEARNING

- How a group of motivated citizens can bring about change
- How one can start small and make a big difference
- Help is always available, all we need to do is ASK



WHO IS THIS FOR

- Anybody and everybody wishing to do something for river
- Citizens, citizen groups, students, NGOs, Corporates
- Government agencies,
 Environment Departments,
 Education institutions

ABOUT

ADOPT A RIVER STRETCH PROGRAM

We believe that river restoration is not possible without active involvement of the citizens.

With this belief, we launched "Adopt a River Stretch" program in May 2017.

Idea is to adopt a stretch of a stream or river nearby, look after it, work there regularly, keep it clean, prevent pollution, record biodiversity, implement conservation measures, watch it come alive.







ADOPT A RIVER STRETCH

Mutha river, Vitthalwadi, Pune

Back of our minds, we all knew that we need to do something more. It was important to change the urban perception towards the river.

It's not a garbage dumping site but it's our native land, it's our place to recreate, it's our place to rejoice, it's our place to rejuvenate.





ADOPT A RIVER STRETCH

Mutha river, Vitthalwadi, Pune

With that motive, we started thinking how my river will be welcoming to all its citizen.

We must celebrate our river

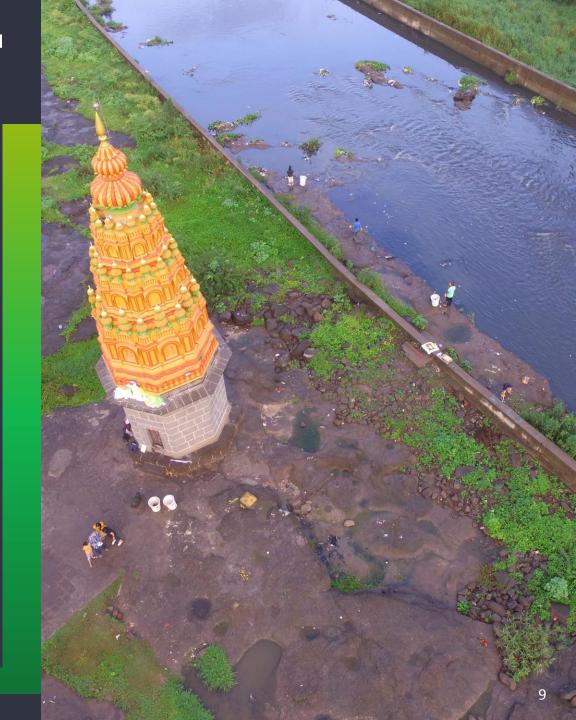
We ideated and did "storytelling session", "Kirtan (traditional socio-devotional musical event)" and other celebrations. With the same motive, we started looking at our adopted stretch more affectionately to understand its beauty and also its pain

ABOUT THE STRETCH

Stretch is around 1 km, spanning over both sides of the temple known as Pundalik temple in Mutha riverbed, at Vitthawadi, Pune

https://goo.gl/maps/8pgma48sweH2

Vitthal temple is on the river bank which is around 175 years old. This stretch represents all the stresses a river has in an urban landscape.



WETLAND DEVELOPMENT

Background

Two *gomukh* are present at the edge of the riverbed, which continuously discharge water.

Gomukh is the structure looking like cow-head, usually made of stone through which water of a live spring/ stream flows. It is a traditional practice of stream conservation across India









A WORD ABOUT MARSHES

Marshy place is itself a habitat.

Then why did we interfere?

In this case, it was not the original character of the riverbed. Marshy places happened due to thoughtless development and equally careless execution.

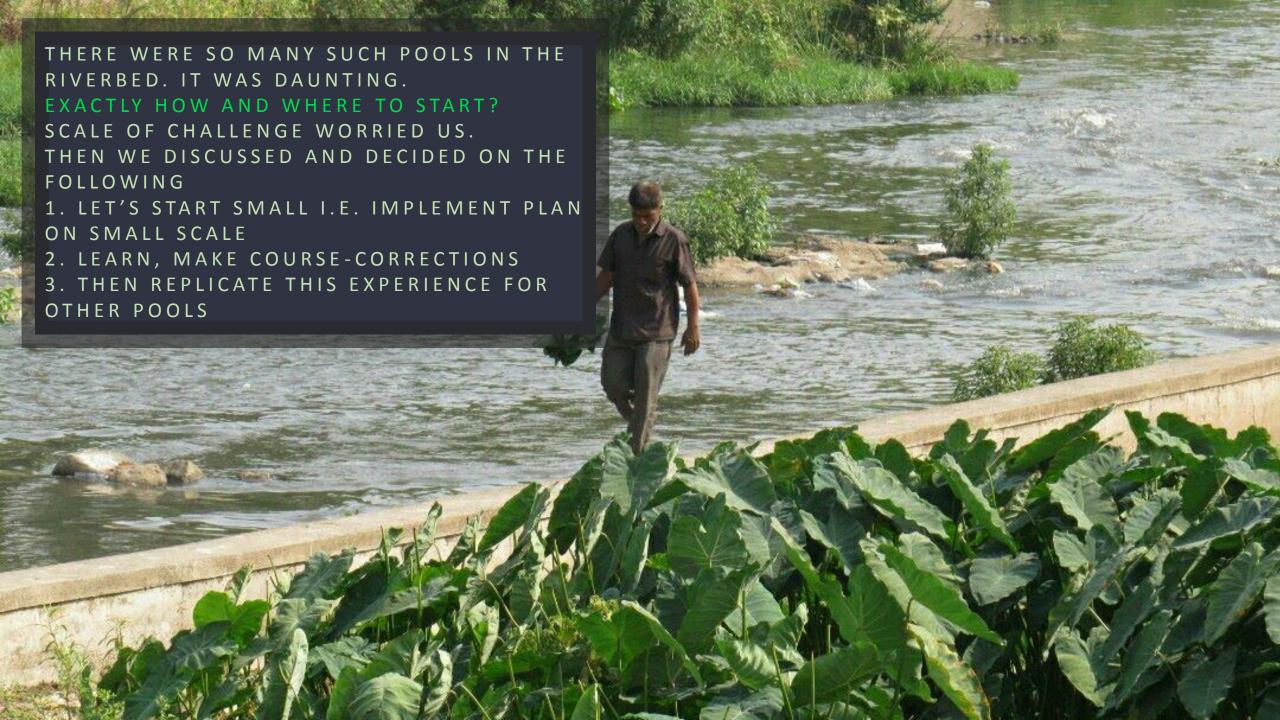
Normally water that should have reached the river, resulted in stagnant pools in the riverbed.

- River thus was deprived of fresh water
- Stagnant pools bred mosquitos
- Stagnation caused water to stink
- People perceived riverbed as an unhealthy and stinky place and avoided it
- Since it became a neglected place, garbage dumping became rampant











Sewage pipeline runs parallel to the river in the riverbed. Concrete platform is constructed over the pipeline for protection. Chambers like the one in the picture are present every 100 meters on the platform for maintenance purpose.

Pool2 at the base of the chamber is due to leakage in the pipeline. Leaking sewage creates stinky, unhealthy pool in the riverbed.

Sewage Treatment facility in Pune city could not keep pace with the growing city. Pune Municipal Corporation admits they discharge into river 29% of untreated sewage.

SEWAGE TREATMENT

Hence, instead of sealing the leakage, we decided to treat this pool as part of wetland development



Wetlands play a number of roles, providing services like flood control, waste purification, habitat provision, carbon sink, groundwater recharge, stability of riverbank.

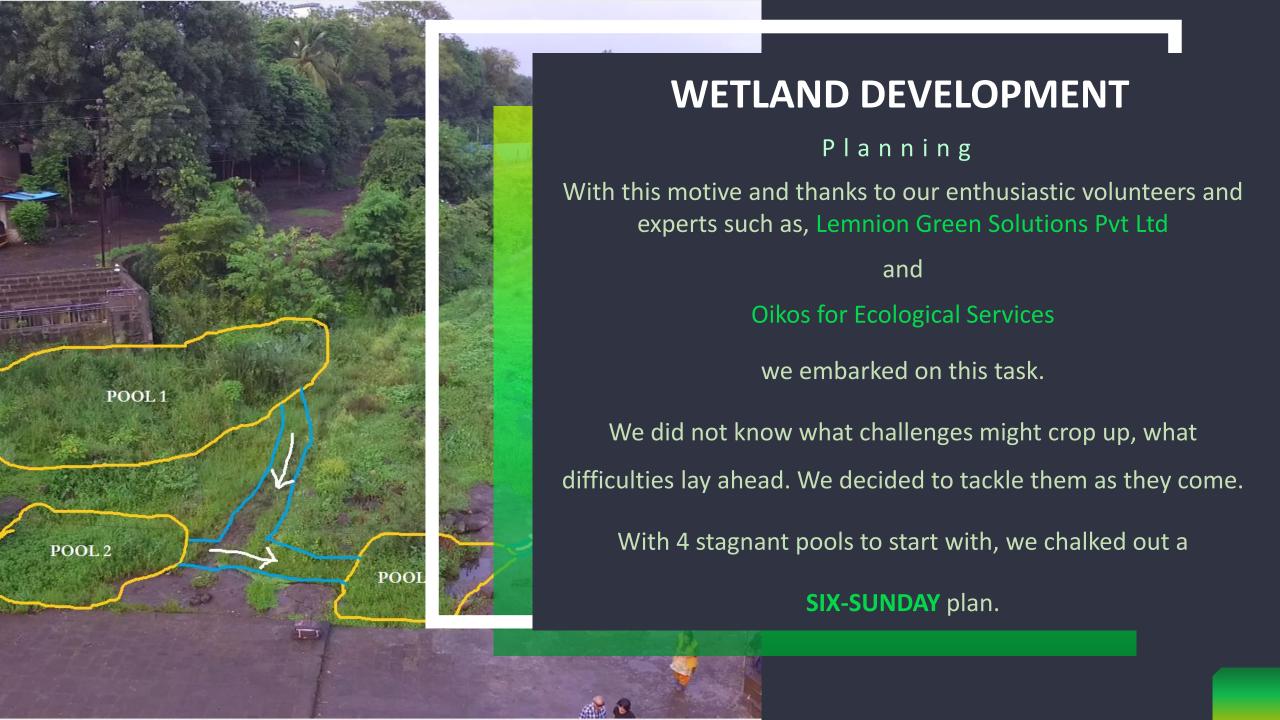
WETLAND DEVELOPMENT

Beginning

Thanks to our ecologist experts, we learnt how these wetlands are integral part of the river ecosystem.

We decided to give it a go and convert those stinking places, home to mosquitos into a beautiful phenomenon which will be naturally purifying the drainage mixed water before reaching to the river stream and at the same time a welcoming site for its visitors







WETLAND DEVELOPMENT

Planning

We decided to join these 4 pools by digging passage in between.

Thus we would make water flow from

Pool 1 -> Pool 2 -> Pool 3 -> Pool 4

From Pool 4, water would flow into river

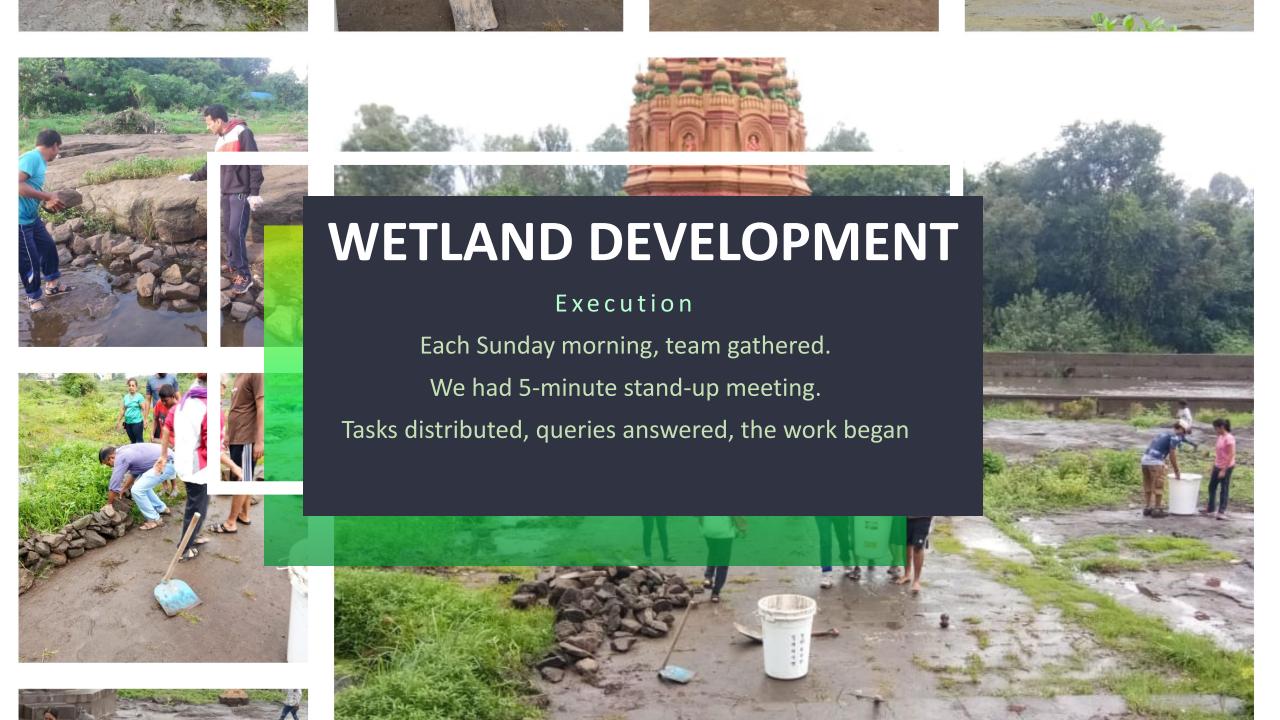
Marshy vegetation was already present, which aided water purification. We enhanced this role by planting some more.

Duckweed in the pools further helped in purification.

Our knowledge told us soil and these plants would be able to purify water, to the extent we expected.

FOR EACH
SUNDAY, WE
DECIDED A SET
OF TASKS FOR
EACH POOL
AND SHARED
WITH THE
TEAM ON
WHATSAPP
GROUP











POOL 1, THE RESULT OF WATER FALLING FROM THE *GOMUKH*, TURNED OUT TO BE MOST CHALLENGING.

BEING URBAN DWELLERS, NONE OF US ARE USED TO HARD PHYSICAL WORK.

TYPHA AND TARO PLANTS WERE EVEN TALLER THAN US. THEY BLOCKED VISUAL ACCESS TO THE WAY AHEAD.

WATER HAD ACCUMULATED, DON'T KNOW FOR HOW MANY YEARS. IT WAS BLACK, STINKY.

MARSHY PLACE MADE IT DIFFICULT TO GET A FOOTING. DIGGING TO MAKE PATH FOR WATER WAS A MAJOR CHALLENGE

ENCOUNTERS WITH SNAKES AND CRABS SCARED US.

JUNE HEAT AND HUMIDITY DRAINED OUR ENERGY













AND THEN IT HAPPENED...

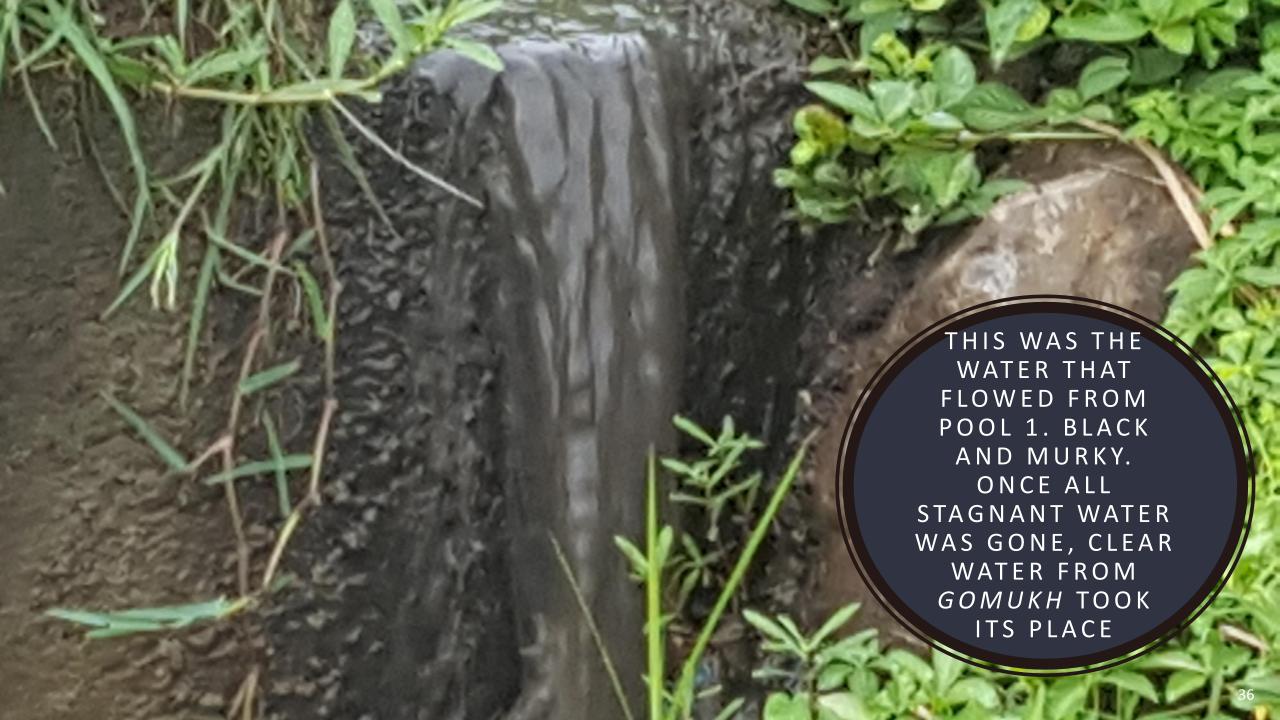
AT LAST IN THE WEEK 4 OF THE PROJECT, WATER STARTED FLOWING OUT OF POOL 1.

EXPRESSIONS OF THE TEAM MEMBERS SAY IT ALL, ISN'T IT?

4 WEEKS OF TOILING IN THE MUD, STINKY WATER FINALLY PAID OFF..

THOUGH COVERED IN MUD AND SWEAT, WE FELT FRESH.

WE REMOVED 3 BINS OF PLASTIC FROM IT.





WETLAND DEVELOPMENT

Success Story

There were many pools in the riverbed.

However, for a year that we have been working here, we did not have fresh water to wash hands after work.

Thanks to the newly created Wetland System, now we have it right in the riverbed















Stagnation of stream water, creating breeding place for mosquitos.

Less visibility due to large Taro grown and marshy land.

Dump of glass bottles, solid and cremation waste from last few years.

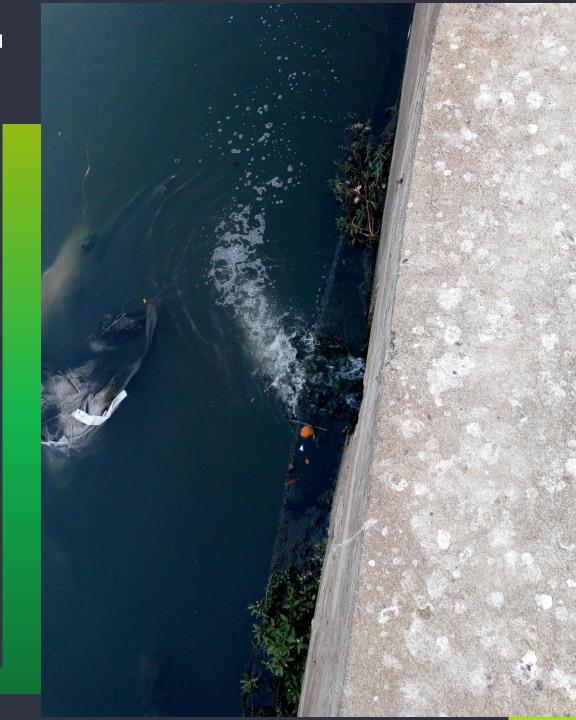


WATER QUALITY OF STREAM WATER

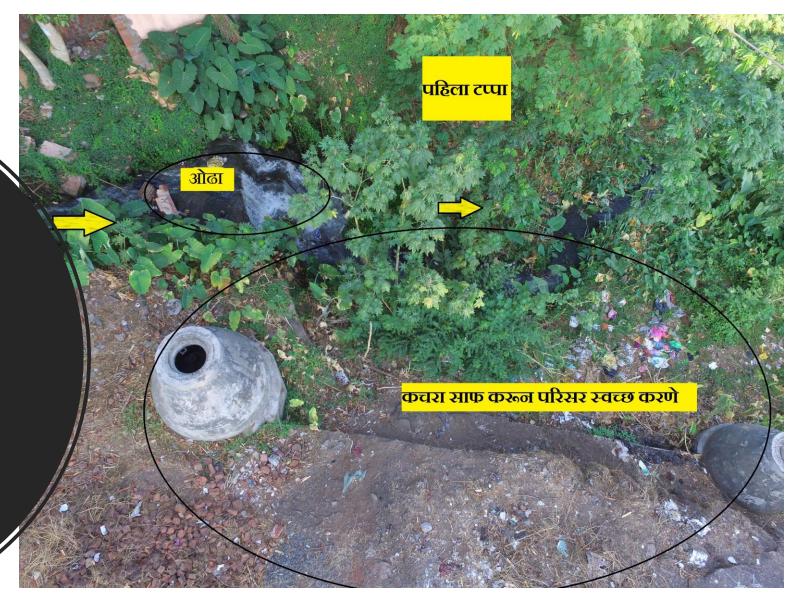
At upstream and downstream water samples were collected.

DO (dissolved oxygen) level found out to be 2.1 ppm clearly indicating presence of sewage and solid waste in the stream.

Hence we were targeting to improve the quality of water to ideal ppm which is 8 ppm to feed good quality water to river.



MAIN CHALLENGE IN THIS WETLAND WAS OF SOLID WASTE, HENCE OUR FIRST TASK WAS CLEANING THE STREAM. AGAIN SAME STRATEGY OF PLAN WAS IMPLEMENTED, A SET OF TASKS WERE SHARED EVERY WEEK AND THE TEAM USED TO SPLIT AND PERFORM THE TASKS ON THE SUNDAYS

















LEMNION GREEN
SOLUTIONS HAS ALSO
PARTNERED WITH US IN
THIS PROJECT.
POOLS AND PONDS
WERE IDENTIFIED AND
A PLAN WAS CHARTED
TO CHANNELIZE THE
STREAM WITH PONDS
AND POOLS AS WELL AS
ROCK STRUCTURES FOR
INCREASING WATER
TURBULENCE.































POOLS STARTED
OVERFLOWING &
CHANNELIZATION WAS
COMPLETED.
WE PLANTED CANNA AND
KRANAJ NEAR THE BANK.
ALSO REPLANTED TARO
AROUND THE BOUNDARIES













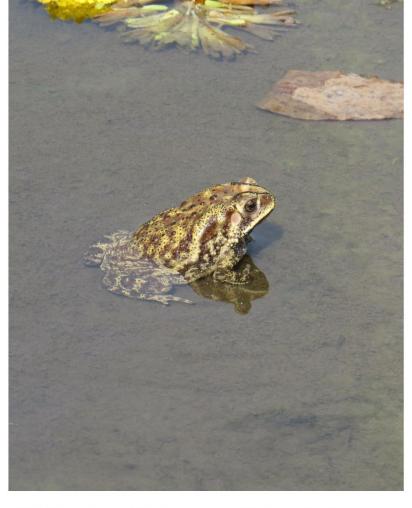














About

Lemnion Green Solutions Pvt. Ltd

Lemnion Green Solutions Pvt. Ltd. promotes and provides tailor-made, green/eco-friendly solutions and services to the environmental problems. These services benefit water treatment and its up-cycling, animal feed, pisciculture, bioenergy and other environmental leads.

www.lemnion.com



About

Oikos for Ecological Services



Oikos provides a spectrum of services catering to different users - private landowners, corporate sector, entrepreneurs, & NGOs - with a specific objective of nature conservation to restore and improve the status of natural resources, processes and biodiversity. We are a social business working for ecological land management since 2002.

www.oikos.in

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