

INFORMATION BROCHURE

An integrated water management initiative



COLLABORATIVE • COMMITTED • CONCIOUS









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ACKNOWLEDGEMENTS

Water is called the elixir of life for a reason. A lot of agrarian problems in our economy revolve around water. For the last few years we have been trying to focus on water-related issues in rural India. From the last one year GuruJal start working in the water sector. The work included digging/cleaning/making of ponds and making people water conscious through behavioural change programs, while also

initiating work on Biodiversity management.

While presenting the Standard Operating Procedure for Pond Restoration and Rejuvenation, we wish to share the learnings and guidance that we have received from numerous sources and from the entire team for the larger effort of water conservation. This report manifests the actions and results of the

team GuruJal.

I am thankful to the members and the advisors of GuruJal board for their guidance and support. I sincerely extend my wholehearted thanks to Gurugram District Administration; Hero MotoCorp and all the funders and partner NGOs of GuruJal to make our program successful.

Last but not the least I welcome feedbacks/suggestions for further improvement in our earnest endeavour to serve, and be able to serve, better.

Ms. Shubhi Kesarwani, Program Manager, GuruJal

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INTRODUCTION

Gurugram is one of the fastest growing urban areas in India, the pace at which it is growing causes lot of degradation to its natural resources. Increase in population caused rapid urbanisation and industrialisation in the existing infrastructure and on natural resource. One of the major natural resource which degrade rapidly is it surface water source and the ground water resource. There is no perennial river flowing in the district, to meet the water demand it is depending on this green cover of Gurugram is also decreasing day by day. As the paved area increases ground water recharge potential is decreased.

Haryana has been identified as one of the most water stressed States of the Nation. Currently, 19 out of 22 districts are declared to be in 'Dark Zone' of the country. This is primarily due to the fact that Haryana historically has been agricultural state, currently with 78.8% of the land being used for farming, and thus generating most of its revenue from agricultural produce.

In the District of Gurugram, the rate of extraction of groundwater exceeds the recharge rate by 308% (CGWB, 2009). The average depth at which ground water level is found to be at 40 meters below ground level, and yet the unabated and unabashed extraction of ground water and accompanied with the continuous release of wastewater in open streams continues.

While several institutionalized mandates and regulations have been launched, there have been several gaps that did not allow proper implementation of these mandates. Moreover, these initiatives also suffer from the lack of technological innovations.

Thus, GuruJal Society was formulated by the District Administration Gurugram in May 2019; supported by the Raman Kant Munjal Foundation Yamuna Canal and ground water. In addition to (CSR initiative of Hero Moto Corp) to ensure better water management in the district.



DEPARTMENT COORDINATION

GururJal Society works with various departments in order to achieve a common goal. Some such departments are -

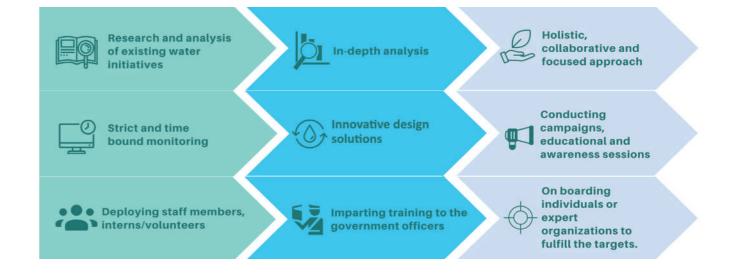
- 1. Agriculture Department
- 2. IWMP, Department of Land Resources
- 3. Hydrology and Soil Health
- 4. Horticulture Department
- 5. Development and Panchayat
- 6. Revenue and Disaster Management
- 7. Municipal Corporation, Gurugram (MCG)
- 8. Gurugram Metropolitan Development Authority (GMDA)
- 9. Haryana Shahari Vikas Pradhikaran (HSVP)
- 10. Public Health Engineering Department (PHED)
- 11. Irrigation Department
- 12. Pond and Wastewater Authority
- 13. Forest Department
- 14. District Rural Development Agency (DRDA)
- 15. Haryana State Industrial and Infrastructure Development Corporation (HSIIDC)
- 16. District Town Planner (DTP)
- 17. Sports Department
- 18. National Highway Authority of India (NHAI)
- 19. CEO Zila Parishad (DRDA)
- 20. Command Area Development Authority, Haryana (CADA)
- 21. Fisheries Department
- 22. Biodiversity Management Committee (BMC)
- 23. Haryana State Pollution Control Board (HSPCB)

AIMS AND OBJECTIVES

The aims and objectives of the society with respect to water-related issues are to research, analyze, avoid duplicity of efforts, centralize efforts, include stakeholders who design solutions that affect water, improve engagement and limited sight into the roots, implementation of water management by following a holistic collaborative-focused approach enabling inter and intra department. Keeping the gaps and urgency of the issue support, monitoring of water conservation scheme compliance, make Gurugram a water conscious district, conduct campaigns and educational awareness sessions on water scarcity and restoration, conduct waterrelated tests, and onboarding individuals and expert organizations to fulfill the targets.

The problem areas have been identified to be different independent understanding and priorities of departments/agencies, lack of collaboration & support, ineffective citizen as well as the urgency of issues.

in mind, GuruJal was envisioned with the objective of "addressing the problems of ground water depletion, water scarcity, flooding and hence water mis-management in Gurugram District of Haryana".

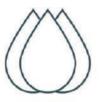


VISION

GuruJal's vision is to encourage social responsibility; sustainable development, lifestyle, and consumerism; protection of environment; inspiring and implementing solutions to the environmental crisis that Gurugram is facing. Our values distinguish us and guide our actions.



To collaborate with 18 + government departments to ensure water conservation and efficient water management in Gurugram, work committedly and make citizens water conscious and mobilize them towards sustainability.







AWARENESS CAMPAIGNS



SUPPORTING COMPLIANCE



INNOVATIVE DESIGN SOLUTIONS



OUR INTERVENTIONS

- 1 WATER PROOFING
- 2 BIODIVERSITY MANAGEMENT
- 3 SUPPORT A POND
 - CONNECT THE DROPS



GuruJal is trying to bring about a change is by installing Rainwater Harvesting Systems in all government buildings of Gurugram district including schools in remote areas and conserving rainwater harvesting systems to recharge wells. To do the same, we have collaborated with Dr. Kiran Bedi's Naviyoti India Foundation, which is conducting workshops for school children to sensitize them towards the need to save water.

Total no of urinals retrofitted = 47 Potential to save water = 7040 KL /year

Fixing Leaks in Govt. Buildings = 20 Potential to save water = 150 KLD

Total No. of Aerators installed = **8650** Potential to save water = 250 KLD

Resolved water related complaints = **500+** Potential to save water = 350 KLD

Providing design consulting to citizens = 20+ Potential to save water = 891 KLD

Total No. of R.W.H's = 640

Potential to recharge water = 1448 million litres

Water enough for 16,053 people/year

MCG R.W.H's MC Sohna R.W.H's MC Pataudi R.W.H's 76 413 13 MC Farukhnagar MC Hailey Mandi Rrual R.W.H's R.W.H's R.W.H's 124 8 6

A survey revealed that if R.W.H structures within just the government schools became functional, a ground water recharge potential of 304 ML/year could be achieved through this practice.

Other government buildings have undergone a similar functionality check.

WATER PROOFING DRIVE



Images from left to right:

1. R.W.H. pipe and filter 2. Pipe valve for filteration 3. Desilting chamber 4. Maintenance check 5. Piezometer













According to India State of Forest Report (ISFR), purposes, overpopulation, mining activities and Haryana State has a lowest forest cover in India i.e., 3.62% of its total geographical area and Gurugram is Southern district of Haryana with forest cover of 9.24% of its total geographical area. Worldwide Habitat Destruction is the major cause of Biodiversity loss similarly in Gurugram District the major reason behind the decreasing population of wild flora and fauna is the loss of their habitat that is majorly caused by deforestation, Clearing areas for agricultural

so on.

Biodiversity Management has currently set a target of restoring 1239 hectares of degraded land by planting saplings of native plantation of degraded area that will increase the current forest cover of the district from 9.24% to 10.24%. It is estimated to produce enough oxygen for 5400 people a year.

PLANTATIONS

MCG Plantations

62,029

MC Sohna Plantations

25,500

Rural Plantations

2904





AIMS

To increase the forest cover and to maintain the local Biodiversity of the Gurugram district by Intensive Afforestation and by developing pockets of Biodiversity zones in the form of Biodiversity Park and Ecological zones near the pond sites of the district with the help of community participation.



OBJECTIVES

1. To conserve and protect the natural habitat for wild flora and fauna

- To Serve as nature reserve for the conservation of lost natural habitation of the city.
- To Serve as a hub for education, cultural and conservation activities.
- To Preserve Endemic and Endangered Flora and Fauna

2. To increase the Quality of Local Environment

- To mitigate climate change impact.
- To Buffer local weather and serve as a sink for CO2 and urban pollutants.

3. To promote Eco-Tourism

- To Create livelihoods for local communities
- To create a revenue model for the local villagers.

BIODIVERSITY MANAGEMENT

Development of Damdama and Kherla Biodiversity Park

> Plantation Drives in Urban and Rural area

DAMDAMA & KHERLA BIO-DIVERSITY PARK



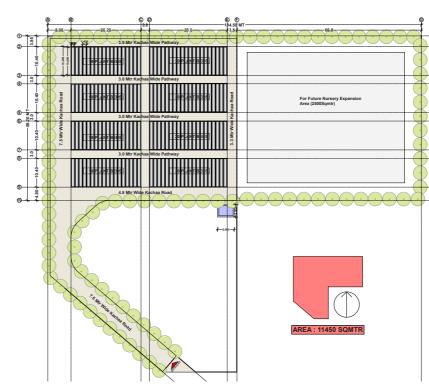


Damdama and Kherla villages are located in Sohna block of Gurugram district in Haryana. They are situated about 25 km towards south from district headquarters Gurugram and 10 km from sub-district headquarters Sohna. Total existing population of Damdama and Kherla villages is approximately 4,005 and 5,800 respectively (as per the data provided by Sarpanch of the villages). Damdama and Kherla villages consists almost 420 acres of Aravalli hills area. Aravalli's are the oldest mountain ranges. They used to be an ecologically rich region but have gradually witnessed the depletion in the biodiversity over the years due to encroachment and other human interventions. In order to conserve the ecology of the region, Biodiversity Park has been proposed in the Aravalli area of Damdama and Kherla village.





NURSERY DEVELOPMENT



Area of the nursery - 3 Acres

Location - 28°18'37.21"N, 77°7'32.05"E

Village - Damdama

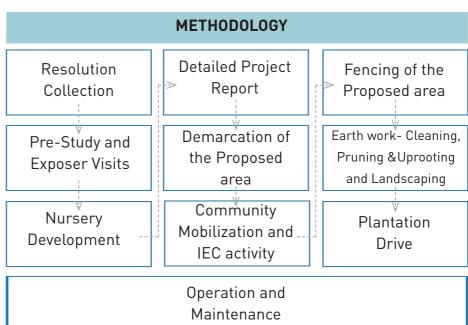
Khasra number - 22//3, 7//23 and 7//24

Production Unit I -76 Beds

Production
Unit II 76 Beds

Production
Unit III 76 Beds

Production Unit IV -76 Beds



03



Support a Pond is the dedicated discipline for undertaking the restoration and rejuvenation of enclosed water bodies in a local community with an understanding between government departments, corporates, communities and individuals, in a systematic and holistic fashion.

TECHNOLOGIES

- 1. Root Zone Technology 2. DEWATS
- 3. Moving Bed Bi-Reactor 4. Phytoremediation
- 5. Bio-Filters with Ozonation
- 6. Advanced Eco Reactors

For, Area - 1 acre Rainfall - 560mm

Amount of water recharged = **8247 Kilo Litres/Year**

Amount of waste water treated = 18,250 Kilo Litres/Year

Amount of water stored in pond = **18,250 Kilo Litres/Year**

Ongoing Ponds = 88

Potential to recharge water = 2085 million litres

Water enough for 40,620 people/year

Pond Profiling 98	Panchayati Raj 18	MCG Ponds 25	MCF Ponds 11
MC Sohna	MC Hailey Mandi	MC Farukhnagar	MC Pataudi
28	2	2	2

S S ш 00 ~ **_** STORATION ш ~ AND EJUVINATION

Pond Profiling



Project Feasibility Assessment



Administrative Approvals



Detailed Project Report



Financial Approvals



Community Mobilization



Cleaning and Levelling



WWTP



Landscaping and Beautification

Operation

and Maintenance

~

O N

0



Monitoring and Evaluation









04

Through connect the drops intervention, our aim is to mobilize the community, spread awareness by doing focussed workshops, giving people the right content, information, tool and supporting them to adopt more water sensitive approaches in their respective domains.

We envision "Connect the Drops" as a water conservation and awareness campaign, which aims to bring together diverse contributors of the community and Connect them with a single motivation i.e. to protect and preserve Water.

The campaign focuses on the following aspects:

A. Designing well-researched modules having information about rights, duties, processes and compliances related to minimizing water wastage, promoting water conservation and suggesting innovative ways of conservation in the respective domains as an individual and as an organization.

B. Delivering experiential workshops for the following stakeholders; schools, corporates, government offices, panchayats, villagers, RWAs and builders. Sensitizing them about the water crisis and making them conscious about water conservation.



14045 People Reached

160 Focused Workshops

82 Capacity Building and Review Meetings

339 Public Outreach Events

22 Community Mobilisation Events



























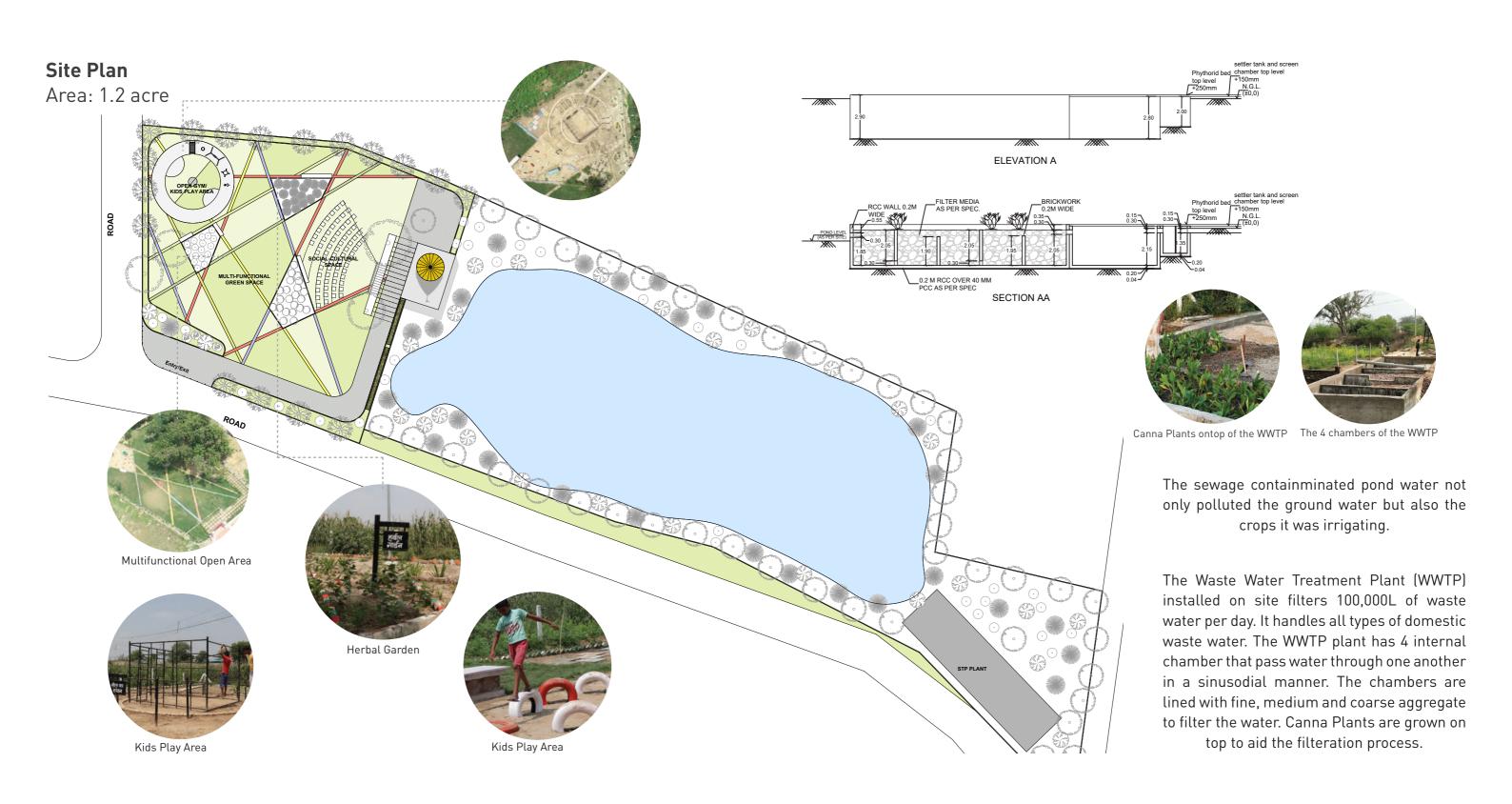




The park is a small communal space located in Mojabad village in Pataudi, Gurugram with an adjacent pond. Rejuvenation of the site started with the idea of providing different kind of spaces and flexible spaces which can be transformed for festival fairs, events etc. The barren ground had a negative effect on the micro-climate as well as adverse effects on the ecology.

The open area is home to a small but sufficient herbal garden, a kid's play area with open gym and seating under the shade of aged trees. A small open kitchen was built on site to cater to the community events and community values that exist. The park is surrounded by bio-swales filled with gravel as natural drains and the site is equipped with solar lights for the night time. The plantation of native flora species like the sacred fig, jetropha and neem trees have resulted in the return of various birds and butterflies and created a naturally cooler micro-climate. Small recharge pits with lilies further the cause of ground water recharge.

A once desolate space has now become the site for social, cultural and developmental growth.



KHENTAWAS, Fahrukhnagar Khentawas is a village in Farukhnagar, Gurugram. This pond was rejuvinated under the Support A Pond vertical of GuruJal. The waste water of the village was being drained into the pond rendering it useless for ground water recharge and community use. In order to rejuvinate the pond to it's maximum potential, the site next to it was developed for the community.

The open area has a kid's play area with swings and some open gym equipment, Kota stone covered seating along with Red Sandstone seating-cum-planters scattered across the site and a gravel path to walk on. The park's boundary is decoarated with recycled glass bottles. The plantation of herbal plants like pathar chatt, tulsi, aloe vera and kadi patta. The site also has plants like neem, marigold, sheesham and gulmohar. The walls were beautifully painted with yoga asanas while the floor has games for the young children of the village.

The site is not scattered with joyus children and various community gatherings. The treatment plant has empowered the fields around to be irrigated with clean water.







02







We have installed WWTP of capacity 150 KLD with advanced ECO Reactor technology. The plant is based on the basic principle of trickling filter, where the wastewater is sprayed over a bed of numerous layers of gravels, bio-filters such as coconut husks that are also initiated with enzymes that treat the water, that provide both physical and biological filtration. Treated water is then disposed into the pond.

NATHUPUR, Gurugram In Nathupur, it was observed that only rainwater and discharge from temple adjacent to the pond finds its way to the pond. Currently, pond is filled by solid waste, construction and demolition waste which is dumped by households located within the vicinity of the pond. Pond is used for parking of vehicles by the nearby households. Currently the pond is filled by solid waste, construction and demolition waste.

Within a course of two decades the pond area has decreased by approximately 0.26 acres, due to the recent construction of a Water Boosting Station within the pond area and also encroachment by the nearby settlement.

Hence, for the restoration and rejuvination of Nathupur, not only does the encroachment need to be removed but the pond needs to be given it's designated area.







Proposed rejuvination of the site.

03





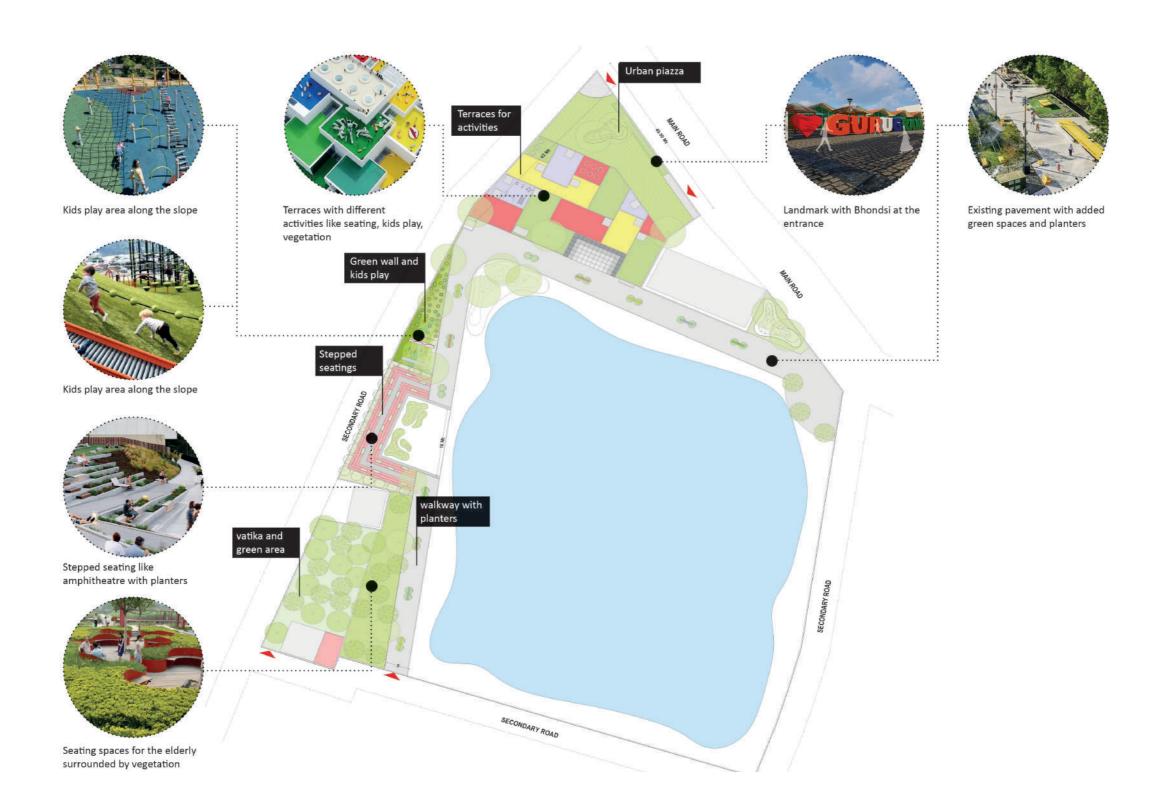
In Bhondsi, it was observed that there is a large water body that has been polluted by not only waste water but also plastic, glass and other such garbage. While there is a boundary in place around the site, it doesn't stop the pond from being dirtied and polluted.

Currently, the pond has an incomplete walking path around the pond which gets submerged under the water after a point. While it has two entries, both only allow the user to acces the parts of the pond directly infront of them. A shaded and dense cover of large trees exists but lacks seating for it to be properly utilised by the village.

Hence, for the restoration and rejuvination of Bhondsi, our goal is to connect and create one continuous walking path, built a proper seating area and create an interactive slope for the children. We also aim to create a multi-functional space for people of all ages to interact and co-exist at the same time.

04

Site Plan Area: 1.1 acre





CHAUMA, Gurugram

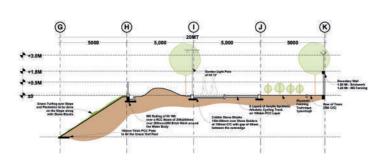
Corporation of Gurugram. After visiting the site, the pond and no direct drains are directed into the pond. Plastic and organic waste are dumped near the pond.

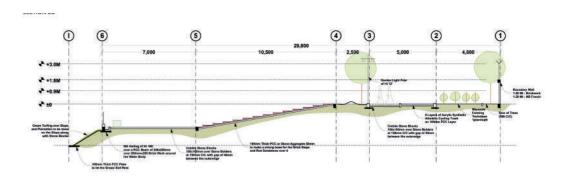
Landscaping and beautification are the last to be executed on the ground under restoration and rejuvenation of pond. Landscaping and beautification are not only planting the flora but is also creating a biodiversity zone around the pond area. Major reason of biodiversity loss in any area is habitat destruction, overexploitation of natural resources like water, climate change, pollution and invasive species. So, to maintain bodies which were then treated as a dump yard the Biodiversity richness we have to focus on or an unsafe site to transform into socially active these issues.

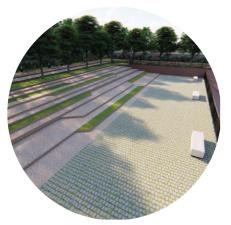
Chauma Pond is located in Chauma near village One of the main goals was to connect the life of which falls under the jurisdiction of Municipal the village to the growing recreational use of the pond itself and to revive the importance of water it was observed that rainwater is accumulated in and nature from ancient India to the present and future.

> The main purpose of landscaping is to create a joyful environment around the pond and give the residents a healthy atmosphere, good appearance, and natural beauty but also adopting the sustainable measures to use our resources efficiently. The goal also is to maximize the rainwater retention and to reduce the heat island effect further reducing the overall energy consumption. Another important goal of the landscape is to rejuvenate the spaces, or water public spaces.

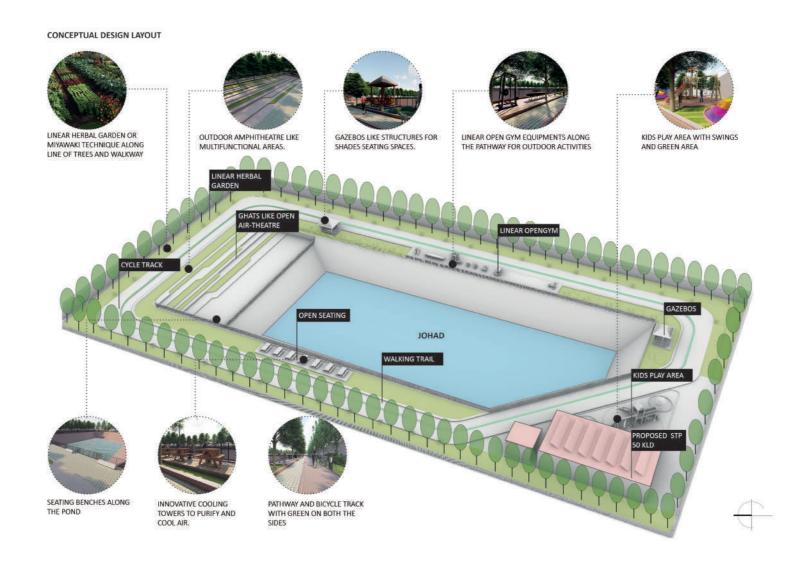
Site Plan Area: 2 acre











Currently, the village pond of Chauma receives untreated wastewater from the community that surrounds it and also receives runoff generated during rainfall events. However, there can be a provision of diverting the sewage generated by the surrounding residential units around the pond.

The physical state, as also mentioned in the pond profiling, is that the pond is completely eutrophied. This suggests that the pond receives a large amount of nutrients that leads to pollution of the surface water and it also poses a hazard as this has a large potential of polluting the groundwater table. As such, it is imperative that the incoming wastewater to the pond is treated. It is therefore recommended that a 100 KLD Fluidised Aerobic Bioreactor (FAB) is proposed.



Subhash Nagar Pond is located in Old Gurugram area near Guru Dronacharya Engineering College which falls under the jurisdiction of Municipal Corporation of Gurugram. The pond is easily accessible by Old and New railway road, with paved roads leading to a booster station that is built adjacent to the pond area.

After visiting the site, it was observed that the wastewater from the neighbourhood is directly discharged into the pond without any treatment, which is accompanied with dumping of solid waste, construction and demolition of waste takes place in pond. Moreover, cattle wadding is also prevalent within the pond and due to high organic loading, pond weeds have developed within the pond and adjacent to the pond site. The images below show the incoming of wastewater into the pond and also cattle wadding into the pond.

After reviewing the historical images of pond, it is observed that the pond area has decreased by about 3 acres within two decades. The pond periphery has scattered temporary settlements that are currently discharging all of their waste, both solid and liquid into the pond. These temporary settlements need to be removed as it is compromising the space of the pond, and possibly contributing to obstructing the natural flow in the pond. These illegal settlements not only contribute to increasing the organic loading of the wastewater flowing into the pond, and the demand to these settlements remain unmapped, and therefore the accurate estimation of the total generation of wastewater would be compromised.

SUBASHNAGAR, Gurugram

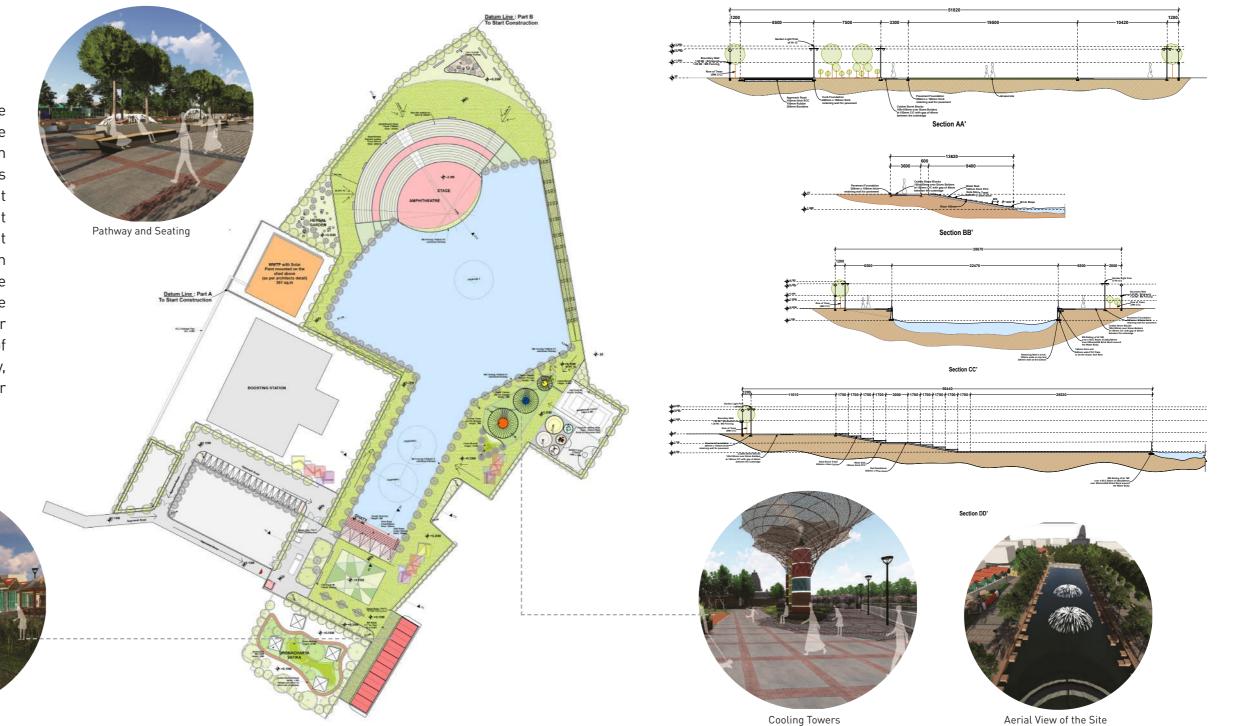
06

Site Plan

Area: 5.65 acre

The S.T.P technology used is the Advanced Eco Reactor. First, the influent enters the sedimentation tanks. Biological agents like enzymes are used along with bacteria's that are able to digest the organic content in the incoming influent. The influent then undergoes physical filtration with the finest at top of the filter to the coarsest at the bottom of the filter. The water is then sprayed across the filter material. Prior to the final discharge of the treated effluent to the water body, the water is mixed with chlorine for extended disinfection effect.

Tensile Flexible Structure



IMPACT

absorbers.

Usually, studies declare that temperatures getting reduced about 1-2°C in comparison to of temperature reduction observed through the day. A study showed that the cooling the daytime cooling influences were clearly obvious under both sultry and hot-and-dry weather conditions.

The temperature of the air above and near Therefore, the position of water body in water body is different from the temperature residential district has less effect on the over the land because the water has a average temperature and relative humidity, different system of cooling and heating. Water but there is obviously effect on the water bodies are believed to be the best radiation around areas, where the air temperature can be degraded 2°C and relative humidity enhanced 5% in 10 meters scope.

closed to and downwind from water bodies are Water bodies have also been proven to be influential methods of decreasing urban surrounding areas, with the highest amount temperatures. A water body temperature is capable of being lower than the surrounding urban environment around 2-6°C. According pond effect over the warmest part of a day, to these findings; one may conclude that have decreased sensible heat flux; since the the rise of evapotranspiration in cities, that surface of the lake was somehow cooler than has roots in vegetation and water body, can the grass cover of the surrounding park, and efficiently mitigate the influence of the urban heat island.

GROUND WATER RECHARGE SUBASH NAGAR **MOJABAD KHENTAWAS NATHUPUR BHONDSI CHAUMA Ground Water Ground Water Ground Water Ground Water Ground Water** Ground Water Recharge -Recharge -Recharge -Recharge -Recharge -Recharge -5772.9 KL/ 9071.7 KL/ 7999.6 KL/ 14,019 KL/ 5772.9 KL/ 65,976 KL/ annum annum annum annum annum annum

AWARDS & PUBLICATIONS

AWARDS

- 1. Skoch Award 2019
- Winner
- 2. UN Water Change Maker's Awards
- Semi Finalist 2020
- 3 JPal South Asia
- Presenter for Glocal Evaluation Week 2020
- 4. Abstract selected for Singapore International Water Week - 2021
- 5. Compendium for Best Water Practices, I am Water Conscious Parameters, Standard Operating Procedure for Pond Restoration and Rejuvenation
- NITI Aayog 2021
- 6. Environment and Social Development Association – World Environment Sumit
- Winners and Presented 2020
- 7. Environment and Social Development Association
- Presented in Global Water Congress 2020

PUBLICATIONS

- 1. Drainage Report with MCG
- 2. Flood Management Report with MCG
- 3. RWH Proposals for District of Palwal
- 4. Restoration and Rejuvenation Proposal for Pond – District of Jhajjar
- 5. Jal Shakti Museum Proposal submitted

MEDIA COVERAGE

नगर निगम गुरुग्राम एवं गुरुजल का वृक्षारोपण अभियान जोरों पर

पुरुग्नाम। हमारी प्रतिरक्षा सबसे महत्वपूर्ण संपत्ति है और इसके मूल्य के बार में जाग्हाक होने का सबसे अ%छा संमय है। स्व%छ हवा का होना बहुत महत्वपूर्ण है और इसे और मजबूत करना है और मॉनसून का लाभ उठाने के लिए नंगर निगम



Gurujal initiative restores Farrukhnagar village pond

oss revived in September 2020.
Minister of state (independent charge) for statistics, programme implementation acc post of \$70 lakh to recycle the water.

results of \$70 lakh to recycle the water.

HT Correspondent

**Topondent Street County County







के लिए कार्य कर रही गुरुजल सोसायटी द्वारा आज दमदमा और खेडला गांव की अरावली की पहाड़ियों में नेचर फोटोग्राफी वॉक का आयोजन किया गया। इस कार्यक्रम की जानकारी देते हुए गुरुजल सोसायटी से एसोसिएट अंजलि शर्मा ने बताया कि कार्यक्रम में डीटीपी प्लानिंग के ऑफिसर सजय कुमार एवं बीडीपीओ सोहना से परिवन्दर सिंह मौजूद हुए। अंजलि ने आगे बताया कि इस बॉक में लोगों को प्रकृति से जोड़ने एवं पोलिधीन इस्तेमाल न करने के लिए जागरुक किया। इस अवसर पर सिडार इंस्टीट्यूट सुनील हरसाना ने पौघों की विभिन्न प्रजातियों की जानकारी दी एवं नवज्योति इंडिया फाउंडेशन से चांदनी बेदी, सोमदत्त व उनकी टीम ने दमदमा और खेड़ला गांव के आम जनता और यवाओं को एकत्रित करने एवं वॉक को सफल बनाने में परा सहयोग दिया। इस कार्यक्रम में लगभग 118 लोगों ने नेचर फोटोग्राफी वॉक में भाग लिया।



गरुगाम। जिला गरुगाम में जोहडो को पनजिंतित एवं जैव विविधता के बचाव कार्यक्रम में गरुजल परी टीम ने विशेष योगदान दिया।



नेचर फोटोग्राफी वॉक का हुआ आयोजन



अमियान के तहत २६ हजार से अधिक पौधों का वितरण

निगम एवं गुरुजल

द्वारा संयुक्त रूप से

चलाया जा रहा हैविशेष

पौधारोपण अभियान

कॉन्डोमिनियम्स एसोसिएशन आदि

शामिल हैं । अतिरिक्त आयुक्त ने बताया

लाख पौधों का वितरण करना है

एनजीओ को पौधे लगाने और इनकी

जिम्मेदारी लेने के लिए प्रोत्साहित

माध्यम से उनको पूर्ण विकसित पेड

मुख्य लक्ष्य है। इस प्रकार सभी के

संयक्त प्रयासों से गरूग्राम को प्रदुषण

गुरूग्राम एवं गुरूजल रहे विशेष पौधारोपण अभियान के 5वें सप्ताह में 19 आरडब्ल्युए एवं 3 एनजीओ के प्रतिनिधियों ने नगर निगम गुरुग्राम एक विभाग की नर्सीरयों से की गाम किए। इन्हें मिलाकर अब तक 26428 पौधों का वितरण



रहा है।

अभियान के तहत अब तक 280 कि इस मानसून के दौरान नगर निगम से अधिक आरडब्ल्यूएध्एनजीओ के गुरूग्राम एवं गुरूजल का लक्ष्य एक पंजीकरण प्राप्त हुए हैं, तथा पंजीकरण को प्रक्रिया लगातार जारी है। अब अभियान के तहत आरडब्ल्यूए, तक लगभग 146 आरडब्ल्युए, एनजीओ ने नगर निगम गुरूग्राम की चार नर्सीरयों से पौधे प्राप्त किए हैं। किया जा रहा है। केवल पौधारोपण इनमें संस्कृत अपार्टमेंट. मैप्सको कासा करना ही अभियान का उद्देश्य नहीं बेला, सँटर ग्राऊंड न्यू कॉलोनी, आरओएफ अलायाज, पैराडाईज है बल्कि उन पौधों की देखभान के ऑनर्स एसोसिएशन, ऑर रेजिडेंट्स में पोषण करना भी इस अभियान का वियम एसोसिएशन एसएम हिबिस्कस अपार्टमैंट ऑनर्स एसोसिएशन, पुनर्वास एवं रहित हरा भरा शहर बनाने में सफ सशक्तिकरण, हेरिटेज बन लता मिलेगी।



45 native species to be planted in park

Damdama bio park: Report

to be ready in six months

ांवों में तालाबों का जीर्णोद्धार जारी गुरुगामः जिला उपायुक्त अध्यक्षता में मंगलवार तय सभागार में गुरुजल हली बैठक आयोजित गुरुजल सोसायटी के ला विकास एवं पंचायत

गुरुजल सोसायटी की पहली बैठक की अध्यक्षता करते उपायुक्त डा . यश गर्ग 🏻 जागरण

ले में अब तक छह बायोडायवर्सिटी पार्क को लेकर एक इनके सुंदर बनाने का लक्ष्य रखा गया है। ार किया जा चुका है। योजना बनाई गई है। यह पार्क 420 एकड़ यह कार्य चरणबद्ध तरीके से किया जाएगा के जीर्णोद्धार का कार्य के क्षेत्र में विकसित किया जाएगा। इसे क जिन छह तालाबों किया जा रहा है।

विकास पाधिकरण व वन विभाग द्वारा संयुक्त रूप से गांव सकतपुर व गैरतपुर बास में 500 एकड़ भूमि पर सिटी फारेस्ट विकसित करने को लेकर भी प्रयास किए जा रहे हैं। बैठक में गुरुजल सोसायटी के प्रतिनिधियों ने प्रजेंटेशन के माध्यम से अब तक परियोजना के तहत किए गए कार्यों का ब्योरा प्रस्तुत किया।

बताया कि जिले में गरुजल सोसायर्ट या गया कि गुरुजल जिले के गांव खेड़ला व दमदमा में द्वारा 320 तालाबों के जीणोंद्वार करके उपायक्त ने जिले में घटते भू-जल स्त विकसित करने को लेकर जमीन का सर्वे को लेकर चिंता जाहिर की। बैठक अतिरिक्त उपायक्त प्रशांत पवार, मंजाल जा चुका है उनमें नरेंद्र सारवान ने बैठक में बताया कि फाउंडेशन से सीओओ रवि पाहुज

अपशिष्ट जल प्रबंधन के लिए तैयार हुआ जोहड़

गुरुग्राम। केंद्रीय राज्य मंत्री राष इंद्रजीत सिंह ने शनिवार को खेंटावास गांव में जीणींद्वार किए गए जोहड का वीडियो कॉन्फ्रेंसिंग के माध्यम से उद्घाटन किया। जोहड का जीणोंद्वार गुरुजल परियोजना के तहत किया गया है। इस अवसर पर आयोजित कार्यक्रम में बादशाहपर के विधायक राकेश चिंता का विषय हैं। दौलताबाद ने बतौर विशिष्ट अतिथि शिरकत की। इस मौके पर केंद्रीय

ारवान ने सोसायटी के

तक किए गए कार्यों व

ओं की रूपरेखा प्रस्तुत



ऐसे में जरूरी है कि हम जल फायदा मिलेगा। इसमें न केवल संचयन के परंपसगत तरीकों को साफ पानी एकत्रित होगा बल्कि मंत्री एवं इंद्रजीत सिंह ने कार्यक्रम अपनाते हुए भूमिगत जल स्तर में की अध्यक्षता करते हुए कहा कि सुधार लाने के लिए एक जुटता से सियाई आदि के लिए भी कर घटता भूजल स्तर हम सभी के लिए प्रयास करें। उन्होंने कहा कि लगभग सकेंगे। ब्यारे

20-25 साल पहले गांवों में जल संचयन के परंपरागत तरीकों का प्रयोग किया जाता थां। जोहड भी इन परंपरायत तरीकों का ही एक उदाहरण हैं। उन्होंने कहा कि इस जोहड़ के जीर्णोद्धार में गांव के बुजुगों से लेकर नौजवानों, माताओं, बहनों व बच्चों ने अपना सहवोग इसका इस्तेमाल लोग खेतों में

तालाब प्रशासन ने बनवाया, पार्क को सजा रहे गांव के बच्चे





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