R/IND/RIWM1



ROTARY INDIA WATER MISSION 2020-2025



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ROTARY INDIA WATER MISSION 2020-2025

Water : the Elixir of Life

WATER The most common chemical compound on earth.....the life sustainer

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Water Water Everywhere!



75% of the earth is covered with water



95% of earth's water is in the oceans



66% of the human body weight is Water





CURRENT WATER SCENARIO IN INDIA

- 21 cities of India are almost out of ground water including Delhi, Chennai and Bangalore
- 100 million urban population is facing water scarcity for drinking / other uses
- 500 million person in rural India are facing water shortages for drinking and agriculture





CURRENT WATER SCENARIO IN INDIA

INDIA : Per Capita Water Availability



INCREASING WATER STRESS



Irrigation Domestic Industrial

Rotary



CURRENT WATER SCENARIO IN INDIA



ROTARY INDIA WATER CONSERVATION TRUST (RIWCT)

- Rotary India Presidential Conference, Delhi (Dec 2003) Delhi Declaration
- President Abdul Kalam was the Chief Guest of the event
- RIWCT established with PRID Sushil Gupta as President
- First Project was implemented in *Churu District, Rajasthan* aimed at providing Family Tankas
- MOU signed between *RIWCT and PHDRDF* in August, 2007
- 300+ projects implemented till date
- Impacted more than :
 - ✓ 10 lakh people,
 - ✓ 500+ Villages
 - ✓ 35000+ Households





2020-2025

ROTARY INDIA WATER MISSION

Rotary

ROTARY INDIA WATER MISSION



Realizing the scarcity value of this precisus water resources, the importance of its conservation and preservation and the urgent need for action in this regard, and

Having deliberated the various initiated issues at the Robay International Presidential Celebration on Weber Management" organized during December 8-10, 2000 is partnership with the Ministry of Water Resources. We, the Robarian, resolve to declore exercises towards the sorthy assess to takking on proteinties related to the celebrary partnerships heads the sorthy assess to takking on particular proteints.

- lo creativo assument arrono peoria:
- a) creating avarances among people;
 b) educating the school children and stakeholders at various
- c) disertinating the knowledge about water conservation techniques including the traditional method
- encountging community participation in integrated and sustainable water management, developing and taking up model projects for sustainable water management;
- propagating the role of National Perspective Plan for intertinking of rivers in development of water amas
- Through interaction with expans and the Stakeholders
- With technical support from the Ministry of Water Resource

By seeking financial assistance for achieving this vital goat from the Government, Publi and Private sector and other supporting organizations and agendies and

By establishing a Rotary Water Conservation Trust and under the auspices of this Trust, Rotary Conservation Society will be registered as per the Societies Registration Act, 1860 for implementation of above programme

ROTARY INDIA WATER MISSION (RIWM)

RIWM was launched on11th Sept, 2019 at New Delhi Verticals under RIWM :

WATERSHED DEVELOPMENT Awareness Transformation of water bodies Efficient use of water Rainwater harvesting



WITER CONVISION

AWARENESS



WATERSHEDS: CHECK DAM



EFFICIENT USE





WATERSHED DEVELOPMENT

- Restores degraded watersheds to increase capacity to capture rainwater
- Reduce Soil erosion
- Improves soil nutrients and carbon content
- Increases agricultural yields
- Benefits the whole ecosystem





TARGET : 10,000 WATERSHED STRUCTURES TILL 2025



TYPES OF WATERSHED DEVELOPMENT

- Check Dams
- Farm Ponds/ Tanks
- Gabion Structures
- Continuous Contour Trenches/ Staggered Trenches
- Earthen Bunding









OBJECTIVES OF WATERSHED DEVELOPMENT















WATERSHED DEVELOPMENT





Joshiwala Check Dam



STEPS INVOLVED IN WATERSHED DEVELOPMENT

1. Site Selection



2. Resource Survey



3. People's Participation



4. Watershed development project plan



5. Treatment of Watersheds



APPROXIMATE COSTS FOR WATERSHED DEVELOPMENT PROJECTS



Farm Ponds/ Tanks

Gabion Structures



Continuous Contour Trenches/ Staggered Trenches

Earthen Bunding

Rs. 5 Lakhs to Rs. 50 Lakhs

Rs. 50,000 to Rs. 2 Lakhs

Rs. 1 Lakh to Rs. 3 Lakhs

Rs. 1 Lakh to Rs. 5 Lakhs

Rs. 10,000 to Rs. 2 Lakhs



2020-2025

ROTARY INDIA WATER MISSION





AVAILABILITY OF PROJECTS ALONGWITH PHDRDF

States /Union Territories	No. of CheckDams
Andhra Pradesh	200
Chattisgarh	20
Gujarat	150
Jharkhand	100
Karnataka	200
Madhya Pradesh	250
Uttarakhand	20
Bihar	50
Haryana	20
Maharashtra	150
Rajasthan	200
Tamil Nadu	150
Telangana	100
Uttar Pradesh	150
Total in States	1740









"Awareness is the greatest agent for change" - Eckhart Tolle

OBJECTIVES :

✓ Inform and Educate people about

- need of water conservation and management
- Water Literacy
- inculcate **respect** for WATER

- **BY** :
- ✓ Influencing their
 - Attitude
 - Behaviour
 - Beliefs to drive action



TARGET : REACH 500 MILLION PEOPLETILL 2025



ACTION POINTS TO CREATE AWARENESS



OrganizeSeminars at District level



Poster making competitions/ debates, slogan writing in Schools



Distribution of Brochures/ flyers by Clubs/ Districts



Social Media



Organising Rallies at National & District level



Print and Electronic Media



ACTION POINTS TO CREATE AWARENESS



Environmental / Water NGOs and Community groups



Non-Conventional Media



Celebrity Endorsements/ Events



CSR Partnerships with Corporates & Media Houses



Co-promotion with Local Government bodies

2020-2025



FACEBOOK FOR AWARENESS

@RIWMofficial

About

Videos

Photos

Posts



Search for **RIWM** Page on Facebook



Like RIWM Facebook Page



Engage with the post by LIKE, **COMMENT, SHARE**

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Invite Friends to like RIWM Page

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COMMENT, LIKE, RETWEET



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Trends for you #OnePlus8Series

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#ARRahman

rendina in Indi #COVID2019india

9,602 Tweets

Politics - Trending #DonaldTrump

9,777 Tweets

#Cipla

Rotary International 🤣 Rotary International 🥝 @Rotary · Apr 2 #Rotary clubs around the globe are using their ingenuity and flexibility to help people affected by #COVID19 and to stay connected. Use #RotaryResponds to share what your club is doing to confront this crisis Promoted by OnePlus India (000) (Follow Rotary International @Rotar Rotary unites more than a million great minds around a shared purpose. And together, there's no limit to the good we can do. #peopleofaction Rotary clubs help fight the COVID-19 pandemic S rotary.org Evanston, IL USA & rotary.org III Joined April 2007 A 9,451 Following 333.6K Followers Q 8 17 72 O 125 Engage with the post by Follow RIWM Twitter Handle

Search for **RIWM** handle on **Twitter**

Home

What's happening

amir Kapur @samir kapur · Apr

OnePlus India 🕗 @OnePlus IN

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Yes, we're doing it. We're bringing wireless charging to the #OnePlus8Series. And it's not just regular wireless charging. It's super-fast *30W* wireless charging.

Get ready for Warp Charge 30 Wireless, Know more: onepl.us/WirelessChar

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WHATSAPP FOR AWARENESS

Central ZWCs District Governors Club Presidents

Club Members

Friends, Relatives, Associates

Central Team to create Awareness messages

Forward diligently for multiplier effect



RANSFORMATION OF WATER BODIES









10,000 TRANSFORMATION OF WATER BODIES TILL 2025



TYPES OF WATER BODIES



3. BAVDI/ STEPWELL



Rajasthan

Pinapadu Pond, Tenali, Andhra Pradesh

Lakkundi Kalyanis, Hampi, Karnataka



NEED FOR **TRANSFORMATION OF WATERBODIES**

- Inadequate Channel capacity
- Improper drainage condition
- Unplanned Reservoir Operation
- Dumping of sewage, Solid Waste and Liquid Waste
- Lack of Sewage/Drainage system in Villages







STEPS FOR TRANSFORMATION OF WATERBODIES

- Identification/Assessment
- Community mobilization and permissions
- Diversion of sewage/ polluted water coming to the water body
- Desilting using JCB/ Dredgers for increasing the depth of water body
- Digging of percolation pits and recharge
- Introduction of biochemicals/ fish species







STEPS FOR **TRANSFORMATION OF WATERBODIES**

- Embankment strengthening / Bund Development
- Training and Awareness programs for community beneficiaries
- Provide garbage boxes
- Place Do's and Don't's boards around Water bodies
- Create recreational facilities





BENEFITS FOR RANSFORMATION OF WATERBODIES

- Acts as storage of water
- Provides drinking water
- Recharges Ground Water level
- Provides water for cattle, animals and birds
- Provides water supply for irrigation
- Recreational Facilities











COST OF **TRANSFORMATION**

Depends on the following:

- Area of the Water Body
- Depth of Water Body
- Solid Waste Constituents
- Silting
- Condition of Water
- Vegetation
- Sewage/Industrial wasteinlet

- LAKE TRANSFORMATION above 25 acres Rs. 1L to Rs. 2L/ acre
- POND TRANSFORMATION Rs. 2L to Rs. 5L/ acre
- STEPWELL/ BAVDI RESTORATION Rs. 2L to Rs. 10L



SITE IDENTIFICATION, TECHNICAL SURVEY AND IMPLEMENTATION

EXISTING/ UNDERWAY MOUs

Central Team has MOUs with *PHDRDF. Delhi*, *EFI. India*, *SatishKhede*(i) Identify Sites,
(ii) Conduct Technical Surveys,
(iii) Prepare Project Reports, including
(iv) Project Estimates and budgets

Central Team has already identified 50 Water bodies across the country, alongwith existing partners

The List of available Water bodies shall be shared separately





E.F.



ROTARY INDIA WATER MISSION 2020-2025



WHAT IS **EFFICIENT USE OF WATER**

'Strategies and activities that sustainably manage natural resources of fresh

water to meet the current and future human demand'

The key activities in Efficient use of Water are:











TARGET BY 2025:

- **1. REDUCE Consumption in 25Lakh Households**
- 2. REDUCE Consumption Using 15,000 Drip/ Micro Irrigation Systems
 - 3. RECYCLE/ REUSE Grey Water In 5,000 Sites



REDUCE CONSUMPTION OF WATER

1. AERATORS

WHAT DO AERATORS DO?

Break water flow into fine droplets, while using less water

- Reduce splashing while washing hands and dishes
- 1. Conserves upto 90% water
- 2. Water Pressure is not impacted
- 3. Lasts for more than 5 years
- 4. Costs Rs.30 only per tap plusLabour
- 5. Available in Standard Sizes





REDUCE CONSUMPTION OF WATER

2. MICRO IRRIGATION SYSTEMS

WHAT ARE MICRO IRRIGATION SYSTEMS?

- Also called low volume/ low-flow/ or trickle irrigation
- Uses lower pressure and flow than a traditional sprinkler system

TYPE 1 : SPRINKLER IRRIGATION SYSTEMS



An Irrigation Sprinkler is a device used toirrigate agricultural crops, lawns, landscapes, golf courses, and other areas

TYPE 2 : DRIP IRRIGATION SYSTEMS

Saves water and nutrients by allowing water to drip slowly to the roots of plants, either from above or below of the soil surface





ADVANTAGES OF MICRO IRRIGATION SYSTEMS

- Suitable for mosttypes of field condition
- Uniform and efficient distribution of water
- ✓ More land available for cultivation
- Ease of dispersion of fertilizers
- Accurate and easy measurement of distributed water
- Economic benefits Labour and Energy
- Soil erosion and weed growth is lessened





REDUCE CONSUMPTION OF WATER

3. LIFT IRRIGATION SYSTEMS

Lift irrigation is a method in which water is lifted by pumps to a storage facility at a height.

This water is used for irrigation as per theneed.

- **Benefits** : Minimal land acquisition problem and low water losses
- **Ownership** : Either individually owned or owned by a group of farmers in a cooperative mode







2. REDUCE - MICROIRRIGATION SYSTEMS IMPLEMENTATION PARTNERS



INDIAN PLUMBING ASSOCIATION FOR AERATORS



FINOLEX PIPES FOR DRIP IRRIGATION



REUSE/ RECYCLE WASTE WATER WHAT IS GREY WATER?

Grey water or sullage is all the wastewater generated in households or office buildings from streams without fecal contamination

Sources of Greywater include :

(i) Sinks,

(ii) Showers

(iii) Baths

(iv) Washing machines

(v) Dishwashers





APPLICATION AREAS FOR GREYWATER RECYCLING AND AERATORS



Residential Houses



Residential Housing Complexes



Industrial Units



Commercial Complexes / Hospitals



Schools / Colleges / Educational Institutions



BENEFITS OF GREYWATER RECYCLING

- Irrigation for agriculture and landscaping
- Process water available
- Indoor uses such as toilet flushing
- Dust control or surface cleaning
- Supplying artificial lakes
- Reduced load on municipal water supply









HOW MUCH WILL THEY COST



Cost per Household: Estimated Rs. 200



3. DRIP/MICRO IRRIGATION SYSTEM



Cost per System : Estimated Rs. 40,000 per acre

Cost per System : Estimated Rs. 1,50,000 to Rs. 2,00,000 dependingon Capacity



RECYCLE GREYWATER – IMPLEMENTATION PARTNERS











WHAT IS RAINWATER HARVESTING?

It simply means catching and holding rain where it falls and using it. You can store it in tanks or you can use it to recharge groundwater



Storage of Ground Water



Recharge Ground Water



TARGET : 50,000 RWH STRUCTURES TILL 2025

RAIN WATER HARVESTING





COMPONENTS OF RAINWATER HARVESTING SYSTEM

Each rainwater harvesting system consists of following components :

- Catchment area
- Storage
- Delivery ducts
- Storage reservoirs
- Extraction device
- Filtration device
- Recharge pit





TYPES OF RAIN WATER HARVESTING



Residential Houses



Residential Housing Complexes



Industrial Units



Commercial Complexes / Hospitals



Schools / Colleges / Educational Institutions



COST OF RAINWATER HARVESTING SYSTEM

Costs depend upon area of roof and other structures that you will use to harvest rain



Catchment areas like roofs must be clean

Roof outlet should be covered by mesh

Filters must be cleaned before each monsoon season Single Unit Houses : 300 Sq. meters - Rs. 2000 to Rs. 30000

Housing Society / Complex: 4000 Sq. meters - Rs.9 Lakh

Schools: 2000 sq. meters - Rs.2.5 to Rs.3 Lakhs

Industrial / Commercial Complex: 3000 sq. meters - Rs.5 Lakhs





BENEFITS OF RAIN WATER HARVESTING

Groundwater table rises with quality improvisation

Economic benefits

Ready availability at the point of consumption

Reduces flooding/Clogging

Flexible and adaptable technology

2020-2025



WHERE WILL THE PROJECTS IMMEDIATELY COME FROM?



Each Rotarian to become WATER NEUTRAL by having

- RWH at Home
- RWH at Office/Factory



- Schools under RILM Program
- Schools under WINS Program
- Schools under Interact Program
- Educational Institutions of Rotaractors



Through RWAs connected with

Rotarians



SOURCES OF FUNDING

1. <u>CSR</u>



2. Global Grants

Rotary Global Grants

4. <u>Contributions from</u>

Philanthropists



5. <u>Club Contributions</u>



3. District Grants





6. Government Funding





FINANCIAL PARTNERSHIP MODEL



*Sponsors include CSR funding, Rotarygrants, Government subsidies etc.



CONSOLIDATED TARGETS FOR NEXT FIVE YEARS

Watersheds : 10,000 Watershed Structures

Awareness : *Reach 500 million people*

Transformation of Water Bodies : 10,000 Lakes/ Ponds/ Bavdis

Efficient Use of Water : Reduce Consumption In 25 Lakh Households and 15,000 Drip/ Micro Irrigation Systems Recycle Grey Water In 5,000 Sites

Rain Water Harvesting : 50,000 Projects

EXPECTED OUTCOME : Integrated work in all Verticals will produce 5000 Happy Villages



2020-2025

TARGETS FOR EACH DISTRICT FOR EACH YEAR

Watersheds : 50 Watershed Structures

Awareness : *Reach 2.5 million people*

Transformation of Water Bodies : 50 Lakes/ Ponds/ Bavdis

Efficient Use of Water : Reduce Consumption In 12,500 Households and 75 Drip/Micro Irrigation Systems Recycle Grey Water In 25 Sites

Rain Water Harvesting : 250 Projects



CHANNEL PARTNERS





Let us Kindle the spark with-in to Look beyond ourselves to BE THE **INSPERATION** in making a difference by acting with Consistency, Credibility & Continuity.

Thank You





PDG RANJAN DHINGRA Chairman RIWM PDG Ranjan Dhingra Chairman & Managing Director

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