Catch the Rain

Where It Falls, When It Falls

Campaign In Urban Odisha

Rainwater Harvesting Structures

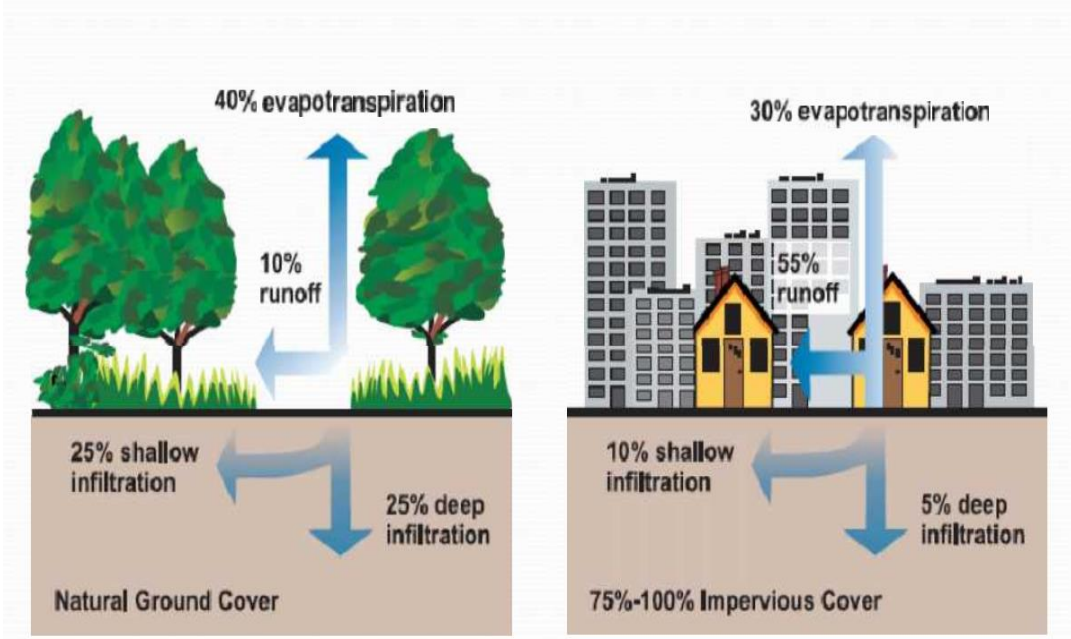
Catch the Rain Campaign in Urban Odisha through RWHS

Background

- Odisha is a Water surplus State with average annual rainfall of 1400 mm.
- Two Distinct Divisions: Highland Regions (Northern, Western & Southern Odisha) and Lowland Region (Coastal Odisha)
- Distribution of Rainfall in most part of the State is Uneven and Erratic (Rain-shadow regions in Western Part of the State)
- Runoff is very High in Urban areas (as high as 50 %)

Envisaged Benefits

- In-Situ Water Conservation and Groundwater Recharge
- Addressing Challenge of Water Scarcity in Cities in Highland Region
- Managing Floods in Coastal ULBs in Rainy Season
- Restoration of Urban Eco System



This initiative has been taken under "*Mukhya Mantri Karma Tatpara Abhiyan* (MUKTA)", a scheme to provide wage employment opportunities for the poor and needy people staying in urban areas of the State.

RWHS Campaign

MISSION	RWHS in all the 2035 Wards across 114 ULBs of the State of Odisha
PRIME OBJECTIVE	Water Conservation through Rainwater Harvesting and Groundwater Recharge
FOCUS AREAS	Public Parks, Playgrounds, Open space/Vacant land, Premises of School, College, Hospital and other Institutions.
TARGET	~ 10,000 RWHS before Onset of Monsoon **NAC: 5 RWHS/ Ward, Municipality : 10 RWHS/ Ward, Corporation : 20 RWHS/ Ward**
TIMELINE	Commencement Date: 15th April 2021 Completion Date: 30th June 2021 **(For a Period of 75 Days)**

Highlights of RWHS Campaign Strategy

1. Constitution of a Core team at the State level
2. Orientation to 114 ULB level teams consisting of MC/EOs, Engineers and Professionals
3. Setting of RWHS Target for the State (~ 10000) and ULB wise fixing of Targets
   - 5 RWHS/ Ward in NAC
   - 10 RWHS/ Ward in Municipality
   - 20 RWHS/ Ward in Corporation
4. Mapping of 256 Engineers in all 111 ULBs and fixing Engineer wise target
5. Co-opting Community based Institutions (CBO) as Implementing Partners (WSHG & SDA)
6. Standardisation of the Implementation Process for Up-Scaling &
   - Preparation of Model Plan & Estimate for various Catchment areas

Highlights of RWHS Campaign Strategy

7. Technical Training to 256 Engineers on Site selection and Preparation of Plan & estimate. To train as Master Trainers for CBOs and ULB teams
8. Training to CBOs (~ 7600 SHG & SDA) on implementation of RWHS
9. Selection of suitable and technically feasible sites for construction of RWHS
10. Issuance of work orders to Implementing Agencies (MSG/ALF/SDA)
11. Fund transferred directly to the accounts to SHG in 2 to 3 stages based on progress in a hassle-free manner. Mostly payment is done to workers on a weekly basis through DBT by Implementing Agencies
12. Upon completion Ward level committee verifies the works and gives a certificate in a prescribed format
13. Technical verification by Engineers of nearby ULBs as part of Third-party Verification. A Toolkit has been developed by State Core team for the Technical Verification process

RWHS IN PARK & OPEN SPACE
TECHNICAL ASPECTS

Pre-Conditions of the Model

Groundwater Table should be more than 3 meter below Ground Level (1.8 mt. through Filter Media & 1.2 mt. through Natural Soil Surface)

STRUCTURE OF THE MODEL

1. Leading Channel of 0.6 mt. Depth filled with Sand and Granite Chips
2. Recharge Pit of 1.8 mt. depth filled with Sand and Granite Chips
3. Abandoned or defunct bore wells can be utilised as Recharge Pits
4. The spacing and number of Recharge Pits are decided based on porosity & permeability of soil below 1.8 mt., annual average rainfall, intensity & duration of rainfall.
5. **For average conditions, one recharge Pit of 1.2 mt. diameter and 1.8 mt. depth with 15 mt. leading channel are adequate for 250 Sq. Mt. of Catchment Area.**

RECHARGE MECHANISM

1. Partial Recharge of Rainwater from the catchment happens through Leading Channel
2. Surplus Rainwater received from the leading channel and rainwater from the area surrounding the Pit recharged through filled media
3. Sand layer acts as the filter media like any other conventional surface water filtration media. To support the sand layer broken granite chips are provided underneath the sand layer
4. The sand layer filters out and retains the suspended solids and provides a base for the grey/black blanket formed over the sand due to filtering of clay, silt and colloidal particles
5. The filter media in the leading channel and recharge pits act like porous membrane which allows partially filtered rainwater to reach the soil media interface
6. The underneath soil layer acts as a natural filter which facilitates micro filtration of rainwater before it reaches the groundwater table
7. Over a period, these grey/black reduce the recharge efficiency. These top sand layers are removed and replaced with new sand layers
8. **The removed sand layers are rich with organic nutrients may be utilised for filling the plantation sites in the Park and Open space area**

MODEL SELECTION AND ISSUES OF SUSTAINABILITY

THE CHALLENGE

1. Varied hydro-geological/subterranean conditions impede model creation
2. Techno-heavy models are difficult to execute, replicate and maintain
3. Prospect of maintenance and sustainability reduces without community participation

THE STRATEGY

1. Formation of Technical group to devise a simple terrain-neutral model
2. Identification of a model which involves least cost of maintenance and no technology
3. Execution and maintenance through community for capacity building and sustainability

THE PRODUCT

1. Model: Simple “Pit and Burrow” with porous lining and appropriate casing
2. Cost per unit : ~ ₹35,000/-
3. Execution Time: ~ 7 to 10 days
4. Technology involved: Nil
5. Maintenance: Cost effective and technology free (Just removal and replenishment of sand and pebbles annually or biennially)

THE OUTCOME

Achievement of milestone: > 10,000 RWHS in a record period of 75 days with community partnership without compromising efficacy or transparency

Progress so far

As on 26th July 2021

👉 Site Selection Completed:	14,806
👉 Plan & Estimate Prepared:	14,716
👉 Estimated Value :	70 Cr.
👉 Work Order Issued:	14,206
👉 MSG & SDA Engaged:	7,606
👉 Work Started:	13,304
👉 RWHS Completed:	12,056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Kavisuryanagar


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ମିଶନଶକ୍ତି ସହାୟତାରେ ରାଜ୍ୟର ୧୧୪ ପୌରାଞ୍ଚଳରେ ଜଳ ଅମଳ ପ୍ରକଳ୍ପ

ଭୂତଳୁଜଳସ୍ତର ଯୋଜନାରେ ବଜିବାକୁ ବରକାରଙ୍କ ନିଷ୍ପତ୍ତି

By OPA — On Apr 24, 2021

ODISHA

ଭୁବନେଶ୍ୱର : ସହରାଞ୍ଚଳ ନିଯୁକ୍ତି ପଦକ୍ଷେପ (ୟୁଡବ୍ଲ୍ୟୁଇଆଇ) ଅଧୀନରେ ଓଡିଶାର ସମସ୍ତ ୧୧୪ ପୌରାଞ୍ଚଳର ପ୍ରତ୍ୟେକ ୱାର୍ଡରେ ମିଶନ୍ ଶକ୍ତି ଗୋଷ୍ଠୀ ସହଯୋଗରେ ବର୍ଷା ଜଳ ଅମଳ ପ୍ରକଳ୍ପ ନିର୍ମାଣ ପାଇଁ ରାଜ୍ୟ ସରକାର ନିଷ୍ପତ୍ତି ଗ୍ରହଣ କରିଛନ୍ତି । ପୌରାଞ୍ଚଳରେ ଥିବା ପାର୍କ, ଖେଳପଡିଆ ଭଳି ଖୋଲାଛାଡ଼ଗୁଡିକୁ ଚିହ୍ନଟ କରିବାକୁ ନିର୍ଦ୍ଦେଶ ଦିଆଯାଇଛି ।

ଗୃହ ଓ ନଗର ଉନ୍ନୟନ ବିଭାଗର ପ୍ରମୁଖ ଶାସନ ସଚିବ ବି.ମାଥୁରାଥାନନଙ୍କ ନେତୃତ୍ୱରେ ଏକ ରାଜ୍ୟ ସ୍ତରୀୟ ଟାସ୍କ ଫୋର୍ସ ଏବଂ ପୌରସଂସ୍ଥାର କମିଶନର୍ / କାର୍ଯ୍ୟନିର୍ବାହୀ ଅଧିକାରୀଙ୍କ ନେତୃତ୍ୱରେ ସିଟି ଲେଭଲ୍ ୱୋର କ୍ରୁପ୍ ଗଠନ କରାଯାଇଛି ଯାହାକି ଆବଶ୍ୟକ ମୌସୁମୀ ଋତୁ ଆରମ୍ଭ ପୂର୍ବରୁ ୨ ମାସ ମଧ୍ୟରେ ୫୦୦୦ ବର୍ଷା ଜଳ ଅମଳର ପ୍ରକଳ୍ପ ପ୍ରତିଷ୍ଠା କରିବରେ ସହାୟକ ହେବ । ଏପ୍ରିଲ ୨୩ ତାରିଖରେ ସମସ୍ତ ପୌରାଞ୍ଚଳ, ବିକାଶ ପ୍ରାଧିକରଣ ଏବଂ ଯୋଜନା ପ୍ରାଧିକରଣରୁ ଇଞ୍ଜିନିୟରମାନଙ୍କୁ ସ୍ୱଳ୍ପ ମୂଲ୍ୟରେ ବୈଷୟିକ ମାନେଜ ଉପରେ ତାଲିମ ଦେବା ପାଇଁ ବିକାଶ ଦ୍ୱାରା କାର୍ଯ୍ୟକ୍ରମ ଆୟୋଜିତ ହୋଇଥିଲା । ଗୃହ ଓ ନଗର ଉନ୍ନୟନ ବିକାଶର ବରିଷ୍ଠ ଅଧିକାରୀମାନେ ଧାର୍ଯ୍ୟ ସମୟସୀମା ମଧ୍ୟରେ ଲକ୍ଷ୍ୟସୁଚିକ କିପରି ହାସଲ କରାଯିବ ସେମାନେ ଆଲୋଚନା କରିଥିଲେ । ବିଏମ୍ସିର ସିଟି ଇଞ୍ଜିନିୟର ସମସ୍ତ ପୌର କାର୍ଯ୍ୟକର୍ତ୍ତାଙ୍କୁ ଭୁବନେଶ୍ୱର ମହାନଗର ନିଗମରେ ଥାପିତ ଆରଡବ୍ଲ୍ୟୁଏଚ୍ଏସ୍ ର ମାନେଜ ଉପରେ ଏକ ବୈଷୟିକ ଉପସ୍ଥାପନା କରିଥିଲେ

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Odisha to set up 5,000 rainwater harvesting structures

With Mission Shakti groups engaged as implementing partners, the initiative will be taken up in a mission mode.

Published: 25th April 2021 03:38 AM | Last Updated: 25th April 2021 02:43 PM

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By Express News Service

BHUBANESWAR: Odisha government has decided to construct 5,000 rainwater harvesting structures under the Urban Wage Employment Initiative (UWEI) in each ward of all 114 urban local bodies (ULBs) of the State.

With Mission Shakti groups engaged as implementing partners, the initiative will be taken up in a mission mode. All the 114 ULBs have been directed to immediately identify the open spaces like parks and playgrounds for construction of rainwater harvesting structures (RWHS) in the first phase.

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Urban Wage Employment Initiative To Be Launched In 114 ULBs Of Odisha

By OB Bureau — On Apr 19, 2021

ODISHA

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Odisha Builds 10,000 Rainwater Harvesting Structures In 75 Days

PTI | ODISHA
PUBLISHED: SATURDAY, 03 JULY 2021 | LAST UPDATED: 03 JULY 2021, 08:24 AM IST

Odisha Builds 10,000 Rainwater Harvesting Structures In 75 Days

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ODISHA BREAKING NEWS

Odisha Scales Height In Rainwater Harvesting, Builds 10K Structures In 75 Days

Gajendra Singh Shekhawat ✓
@gssjodhpur

Brilliant effort Odisha!

10,000 Rain water harvesting structures in 75 days across 114 local bodies is a commendable feat.

This campaign run under Mukhya Mantri Karma Tatapara Abhiyan will help #CatchTheRain at a mammoth scale across the state.

#JalShaktiAbhiyan

CMO Odisha ✓ @CMO_Odisha · Jul 2

Commend @HUDDeptOdisha on completion of 10,000 Rain Water Harvesting Structures in #CatchTheRain Campaign under #MUKTA scheme in #Odisha in 75 days with active participation from @mission_shakti groups, SDAs.

twitter.com/HUDDeptOdisha/...

H & UD Dept ✓ @HUDDeptOdisha · Jul 1

Urban #Odisha reached a significant milestone in the #CatchtheRain Campaign by completing 10,000
Rain Water Harvesting Structures (RWHS) across Odisha in a record span of 75 days. 1/4

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୭୫ ଦିନରେ ୧୦ହଜାର ବର୍ଷା ଜଳ ଅମଳ ସଂରଚନା ପ୍ରକଳ୍ପ

By **Tathya Correspondent** - July 2, 2021

ଭୁବନେଶ୍ୱର : ଜଳ ଏବଂ ନଗର ଉନ୍ନୟନ ବିଭାଗ 'ମୁକ୍ତା' ଯୋଜନାରେ ରାଜ୍ୟର ସମସ୍ତ ୧୧୪ ଟି ସହରାଞ୍ଚଳରେ ବର୍ଷା ଜଳ ଧରି ରଖିବା (ଜଳାଦ୍ ଟି ରେଜ୍) ଅଭିଯାନ ଆରମ୍ଭ କରିଛି । ପଶ୍ଚିମ-ପଶ୍ଚିମ ମୌସୁମୀର ଆଗମନ ପୂର୍ବରୁ ଓଡିଶାର ୧୧୪ ଟି ସହରାଞ୍ଚଳରେ ଜଳ ସଂରକ୍ଷଣ ଏବଂ ଭୂତଳ ଜଳ ଭିତର୍ଭୂକୁ ପୁରଣ କରିବା ପାଇଁ ଅତି କମରେ ୫୦୦୦ ବର୍ଷା ଜଳ ଅମଳ ସଂରଚନା (ଆରଡବ୍ଲୁଏଚ୍ଏସ୍) ନିର୍ମାଣ ଲକ୍ଷ୍ୟ ନେଇ ଏହି ଅଭିଯାନ ଆରମ୍ଭ ହୋଇଥିବାବେଳେ ୭୫ ଦିନରେ ୧୦ହଜାର ପ୍ରକଳ୍ପ ନିର୍ମାଣ କରିଛି ।

ମିଶନ୍ ଶକ୍ତି ଯୋଷୀ ପରି ଜନ୍ମୁଜିତି ଆଧାରିତ ସଂଗଠନଗୁଡିକର ଯୋଗଦାନ (ସିରିତ) ସହିତ ସେମାନଙ୍କୁ କାର୍ଯ୍ୟକାରୀ ସଂସ୍ଥା ଭାବରେ ନିୟୋଜିତ କରି କାର୍ଯ୍ୟନିର୍ବାହ ପ୍ରକ୍ରିୟାରେ ସର୍ବାଧିକ ପ୍ରାଧାନ୍ୟ ଦିଆଯାଇଛି । ତେଣୁ ବର୍ତ୍ତମାନ ପର୍ଯ୍ୟନ୍ତ, ବର୍ଷା ଜଳ ଧରି ରଖିବାର ଅଭିଯାନକୁ ଲୋକ୍ ସରରୁ ବିପୁଳ ସମର୍ଥନ ମିଳୁଛି । ରାଜ୍ୟର ସହରାଞ୍ଚଳ ଯୋଷି ମାଧ୍ୟମରେ ଏହାର ସଫଳତା ଏବଂ ଲୁହାପରୁ ଦେଖି ଦୂର ଓ ନଗର ଉନ୍ନୟନ ବିଭାଗ ଓଡିଶାର ପଶ୍ଚିମ, ଉତ୍ତର ଏବଂ ଦକ୍ଷିଣ ଭାଗରେ ଆହୁରି ୧୦,୦୦୦ ରୁ ଅଧିକ ଆରଡବ୍ଲୁଏଚ୍ଏସ୍ ନିର୍ମାଣ କରିବାକୁ ଚିହ୍ନଟି ନେଇଛି ।

ଭାରତର ପୂର୍ବ ଉପକୂଳରେ ଅବସ୍ଥିତ ଓଡିଶା ଅନେକଗୁ ଜଳ ବହୁତ ଭାଲ୍ୟ ଭାବରେ ପରିଗଣିତ । ବର୍ଷା ହେଉଛି ଓଡିଶାର ଜଳର ମୁଖ୍ୟ ଉତ୍ସ ଯାହା ସାରା ରାଜ୍ୟରେ ୧୨୦୦ ମିଲିମିଟରରୁ ୧୮୦୦ ମିଲିମିଟର ମଧ୍ୟରେ ବର୍ଷିଥାଏ । ଯଦିଓ ଓଡିଶାରେ ହାରାହାରି ବୃଷ୍ଟିପାତ ୧୪୦୦ ମିଲିମିଟର ପରିମାପ କରାଯାଏ, ଏହା ବିଭିନ୍ନ ଜାଗରେ ସମାନ ଭାବରେ ବଣ୍ଟନ ହୋଇନଥାଏ । ଜୁନ୍ ମଧ୍ୟଭାରୁ ସେପ୍ଟେମ୍ବର ମଧ୍ୟଭାଗ ମଧ୍ୟରେ ଓଡିଶା ପ୍ରାୟ ୭୬%

THANK YOU