

WATER SUCCESS - STORY

Revolution ? No but Collective Efforts

Tamaswada Pattern (TP) Nala Treatment (RIDGE TO VALLEY)

Concept

: THEME :

Inspiration



Water is Life

Water Is life

Rain Water Harvesting, Storage, Conservation
And
Artificial Ground Water Recharge Project
Year 2010 to Year 2018



Hon. Shri. Nitinji Gadkari
Visionary Personality



Farmer at Critical Position of Watershed (Ridge)

Project : At Village Tamaswada Hill - Forest (RIDGE) TO (VALLEY), Dham River,
Tamaswada - Tah. Seloo, Dist. Wardha - State : Maharashtra - INDIA

Effective Solution to CLIMATE CHANGE - Answer To Drought and Flood.

-: Consolidated By :-

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MODEL PROJECT OF :- CONVERGENCE, LOW COST WORK WITH PEOPLE PARTICIPATION
AND EFFECTIVE IMPACT ON SOCIO-ECONOMIC DEVELOPMENT OF VILLAGE.

SUPPORTED & HELPED BY

CO-ORDINATOR



P. V. JAMDAR

GUIDE

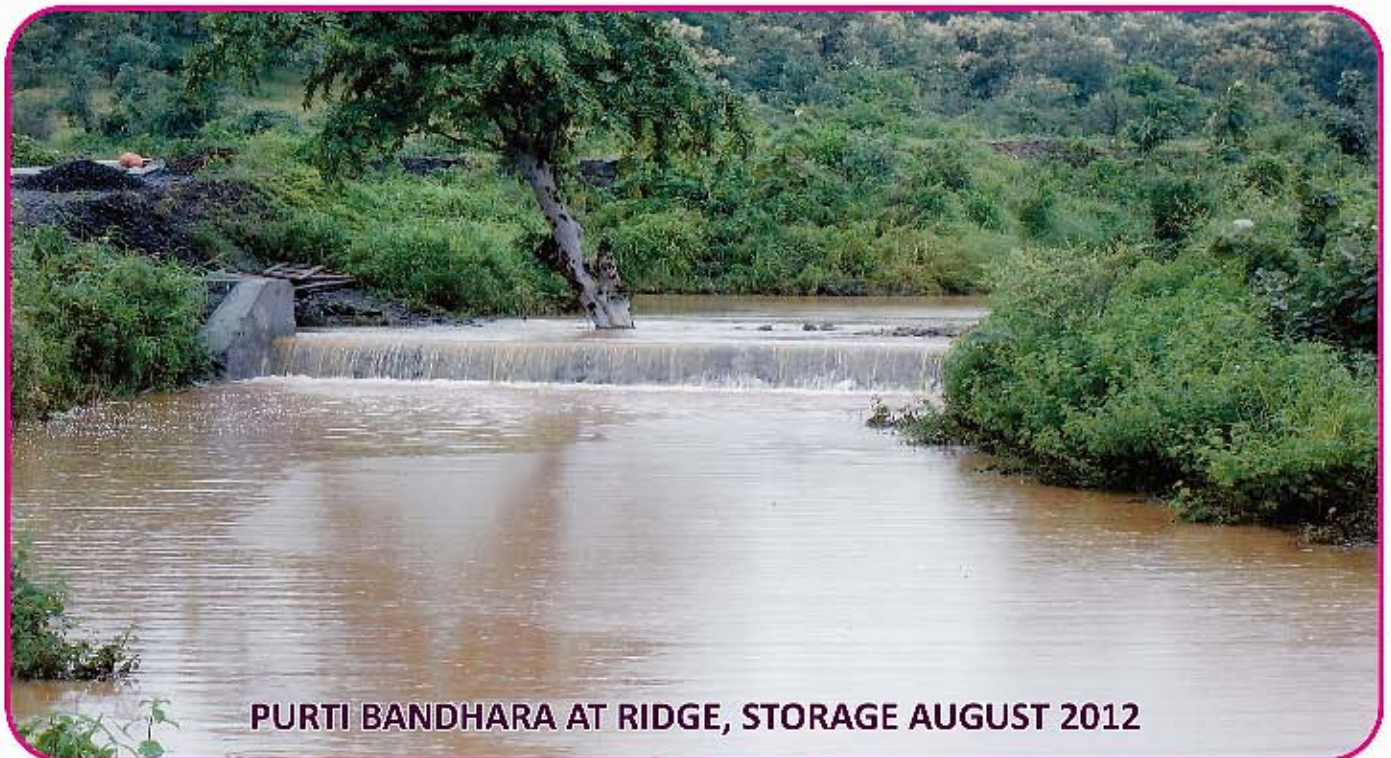


RAVINDRA KALI
SENIOR GEOLOGIST

GUIDE



RAJENDRA DESHKAR
SENIOR GEOLOGIST



PURTI BANDHARA AT RIDGE, STORAGE AUGUST 2012

GUIDE



DR. P. K. JAIN
HYDRO GEOLOGIST

NGO



MILIND BHAGAT

ASSISTANCE



SATYAJEET JAMBHULKAR

Rain Water is the only Source

CONSERVE IT SAVE IT IT WILL SAVE US



Extending Nature & Greenery - Year 2010 to 2018



Make Maximum area Green and Conserve it

India

Per Capita Water Availability

YEAR	PER CAPITA AVAILABILITY EACH SOUL IN CUBIC METER
1947	6000
2001	GONE DOWN TO 1820 CUBIC METER
2047	IT MAY GO BELOW 1000 CUBIC METER (Water Stress Conditions)

SURFACE FLOODING

Percolation Tanks
Cement Plugs
Earthen Nala Bund
Gabion Structure etc.

DIRECT INJECTION

Through Existing Dug well
Through Existing Bore well
Recharge Shaft

KT Weir

Under Ground Bandhara

Beside many other locally popular techniques are also in practice depending on area specific hydrogeological and physio-climatic conditions

-: INSIST FOR :-

- Work of Water Conservation subject to Geology - Topography - Civil Engineering
- Work for Complete Development of every Micro-Watershed.
- Priority Work for Ridge Area Development & Thick Plantation & Conservation.
- Best Work for Run off Rain water Management
- Preservation, Conservation & Rejuvenation of Traditional - Natural Water sources as well as most valuable Nature, Environment and Forest.

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Visited by Hon. Ramdasji Tadas, M.P. Loksabha



U.C.R. Purti Bandhara - Oct 2012

WATER SUPPLY SECURITY THROUGH TAMASWADA Pattern (TP) Nalla Treatment

**: Rain Water Harvesting, Conservation
&
Ground Water Recharge Project :**
Artificial Ground Water Recharge for Augmented
Ground Water Storage

SUCCESS STORY

: Work Done At :

**Village : Tamaswada (Tribal) Tahshil – Selu, Dist. Wardha
State – Maharashtra - INDIA**



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**Information / Documents Regarding all steps taken for
Implementation of Ground Water Recharge Project
Year Oct – 2010 to July -2018**

PROGRESS REPORT AND VISIBLE RESULTS

From

Tamasawada Nala - Rain Water Harvesting & Conservation Project

10th Oct 2010 to 15th June 2013

(First Stage to 3.5 km Critical Portion)

Located at Ridge of Watershed

WRWBD - 5 Mini - 2/2, Micro 1

Work off Survey & site selection - 10 Oct 2010 to 4 April 2011

Execution of work - 4 April 2011 to Oct 2012

Result as on 15th June 2013

Rise in Ground water tablee. Crops, Facilities due to project.

Before Treatment



After Treatment



Before Treatment



After Treatment



Now At Year 2018

: Ample Water Storages & Developed Green Area :
(Solution over problems due to CLIMATE CHANGE)



Ideal Convergence Work
For
Participatory Ground Water Recharge & Management work :
October 2010 to May 2018
TAMASWADA PATTERN (TP) NALLA TREATMENT
THROUGH
ARTIFICIAL GROUND WATER RECHARGE BY DRAINAGE LINE TREATMENT
WORK : MICRO WATERSHED DEVELOPMENT IN THE
DIRECTION : RIDGE TO VALLEY :

Village Grounds- Tamaswada – Akoli – Jamni – Kshirsamudra – Babhulgaon, babpur
Tah. - Selu Distt. - Wardha (M.S.)

Worked for - Rain Water Harvesting - Conservation, Storage & Ground Water
(Augumented Rain) Recharge To creat Surface Water Storage as well as Ground Water Storages.
Water Storages

: Participatory/Contributory Convergence Model Work :
Year 2010 to 2018

Sr. No	Head or Dept./NGO/Corporate etc.	Contribution/Participation
1	Contribution of Corporate Sector (Financial & Diesel for Machines)	By 'Mahatma' Sugar Factory (MANAS Group) Jamni Tal. Selu Distt. Wardha Diesel Expenditure done for work (Rs. 15 Lakh)
2	Contribution by Members of NGO (Financial & Monitoring work)	Contribution by members of PURTI SINCHAN Kalyankari Sanstha (NGO) WARDHA About 4 Lakh
3	Participation of Villagers of Tamaswada Akoli – Labour work & Co-Operation	Villagers from Tamaswada (Tribal), Akoli -Jamni Tah. Selu Distt. Wardha-Maharashtra
4	Local Dev. Fund used through MP/MLC (Maharashtra State)	Local dev Fund from shri. Apte (MP Rajyasabha) MLC - Shri. Nitinji Gadkari, Shri. Phundkar, Smt. Fadanwis, Shri Mankar, Shri. Ganar -1 MP – 5 MLC
5	State Government – DPC Central Govt. Schemes – VIIDP – (RKVY)	DPC Wardha – For Modification of Banhara about 85 Lakh. Central Govt – RKVY – VIIDP Scheme throuth Deptt. Jalasandharan (Local Sector) State
6	Various State Govt Deptt. involved in execution & Implementation of Project	<ul style="list-style-type: none"> • Minor Irrigation Zilla Parishad Wardha • Water & Soil Conservation (State) Dept (Local Sector) • Agriculture Deptt. (SAO) Area Treatment • Revenue Deptt. Wardha Distt. (Collector) • Forest & Distt. Publicity Office. GSDA Wardha
7	Co-Operation/Participation	<ul style="list-style-type: none"> • Group of Senior Geologist • MP/MLA/ZP Member/PS Member, Civil Engineers, • Experts, Villagers, Farmers.
8	Publicity/Awarness Participation visit/Print Media/Electronic Media Visited by – NITI AYOGE, Expert Team from (GWB, Team of Sr. Geologist, Minister of Water Resources (GOI) & Documentry on U tube : (Click Purti Sinchan)	MP, Ministers, Niti Ayog. Officers. Collector GSDA Team CGWB Experts, Engineers, Activists Print Media – TOI, TarunBharat, Lokmat, Loksatta, Hitwada, Sakal, NavBharat, Dainik Bhaskar, Deshonmati, Agro-One, PunyaNagari. Ele. Media – Z-24 Tas, Rajyasabha TV, Green TV, IBN Lokmat, ABP Maza, ANI, Daily Jagran (MP), Frontier TV 24x7

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TAMASWADA PATTERN (TP) NALLA TREATMENT

-: PROJECT :-

RAIN WATER HARVESTING, CONSERVATION & GROUND WATER RECHARGE

-: FOR :-

PRESERVATION & CONSERVATION OF NATURAL & TRADITIONAL WATER BODIES.
ALSO MOST VALUABLE ENVIRONMENT & NATURE

ULTIMATELY

REJUVENATION AND RESTORATION OF WATER BODIES WITH CONTRIBUTION TO GROUND WATER
RECHARGE & STORAGE CAPACITY



THEN



NOW



Date 12/04/2008



Date 06/02/2014

STEPS TOWARDS IMPROVED CONDITION OF ENVIRONMENT, NATURE, RURAL ECONOMY,
LIFE STYLE OF VILLAGE & VILLAGERS, ORGANIC & MINIMUM POLLUTION AGRICULTURE
ACTIVITY MILK PRODUCTION GREENERY & MEAT PRODUCTION. DUE TO EFFECTIVE
GROUND WATER RECHARGE IN TRIBAL VILLAGE TAMASWADA TAH. SELU, DISTT. WARDHA,
STATE MAHARASHTRA, INDIA

THEME : WATER IS LIFE

Rain Water is the only Source. Save & Conserve it-It will save us.



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WATER OF VILLAGE FOR VILLAGE & VILLAGERS. FOR ALL & ALL PURPOSE

• APPEAL •

" We know colonies & villages are established on the bank of River, Major River, Nalla, Drains, village Tanks due to availability of Water for all purpose. Today shortage of water is a serious problem. But there is a way as every colony or villages has some type of Natural water source and each water source has it is own catchment area to collect Rain Water. This catchment area is nothing but the micro and mini watersheds. Therefore it is necessary to develop these all micro watersheds and establish Rain Water Harvesting, Conservation and Ground Water Recharge project at various locations as many as possible. Let us start work today for ample availability of water in FUTURE."

SUGGESTIONS AND MODIFICATIONS ARE WELL COME.

TAMASWADA PATTERN (TP) NALLA TREATMENT



Base Map : Village Map of Tamaswada With Marking of Exist Structure & Drainage Line

-: ADOPT : 5 'R' METHOD :-

- 1st 'R' - REVIEW (SURVEY)
- 2nd 'R' - REPAIR (STRUCTURE & METHOD)
- 3rd 'R' - REJUVENATION
- 4th 'R' - RECHARGE (GROUND WATER)
- 5th 'R' - RESULT (ANALYSIS)
 (IMPACT ANALYSIS, SOCIO ECONOMIC SURVEY)

: Work For :

EFFECTIVE RUN OFF RAIN WATER MANAGEMENT (ACCORDING TO '3' ZONE)

: DIRECTION :

ESSENTIALLY "RIDGE TO VALLEY"

: PRIORITY :

RIDGE AREA DEVELOPMENT & MAXIMUM POSSIBLE PLANTATION

FOLLOW SEQUENCE FOR DEVELOPMENT / REJUVENATION.

MICRO - MINI - MEGA WATERSHED - MINOR RIVER - MAJOR RIVER

: SALIENT FEATURES :



- NO LAND ACQUISITION
- NO COMPENSATION
- NO REHABILITATION
- NO DISPLACEMENT
- NO MIGRATION
- NO FLOOD &
- AMPLE GROUND WATER.



Make Running Water to Walk, Walking Water To Stop & Allow Stopped to Recharge Groundwater

Tamaswada Nala Rain Water Harvesting storage, Conservation and Ground Water Recharge Project (Pilot Project)

Tamaswada Nala, At Tamaswada Tal. Seloo, Dist. Wardha. (Maharashtra)

10 Oct 2010 to August 2018

(Details of First Stage of 0 to 3.5 Km length)

CRITICAL PORTION AT RIDGE LEVEL

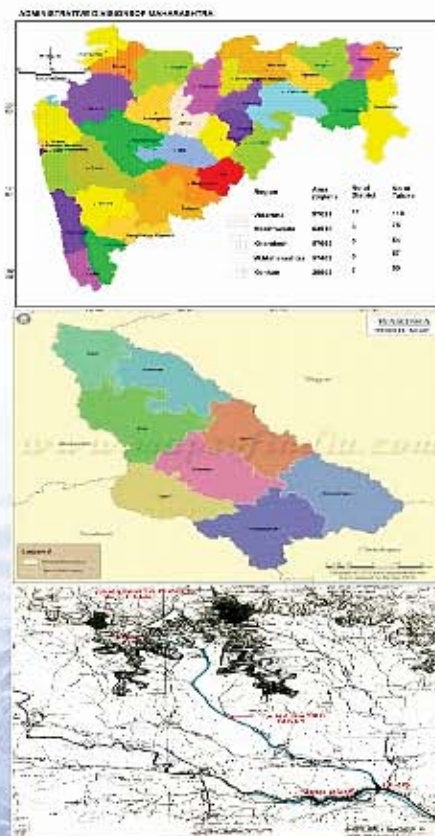
Tamaswada Village Ground

SUCCESS STORY

- Concept** : Water is Life.
- Works for Reason** : Rain Water Harvesting, Conservation and Ground Water Recharge.
: Rain Water is the only source of water.
- Method** : Work form Ridge (Origin) to Valley (Junction) is essential.
- Selection of Site** : Dry, Non command area is selected. Tamaswada Nala of Tribal Village Tamaswada, Tal. Seloo, Dist. Wardha, State. Maharashtra, INDIA.
- Length approx Villages across** (Master plan) : Ridge (Tamaswada forest Hill) to Valley (Dham River) about 12 km.
: 7, Tamaswada, Masala Akoli, jamni, Kshirsamudra, Babhulgaon, Balapur.
- Survey** (10/10/2010 to 30/03/2017) : Survey, measurement of Nala bed considering Topography, Geology, Geography, Civil Aspects.
- Preparation** : L-Section, Cross Section Survey, Location of proposed various types of Bandhara (plug).i.e. cement, Gabian, U.C.R. Eathen etc.
- Awareness** (within notified land of Nala) : Conducted meetings of Villagers and proposed beneficiaries, Farmers about work to do.
- Work Starts** : April 2011 Removal of Encroachment over Nala bed. Desilting of Nala bed.

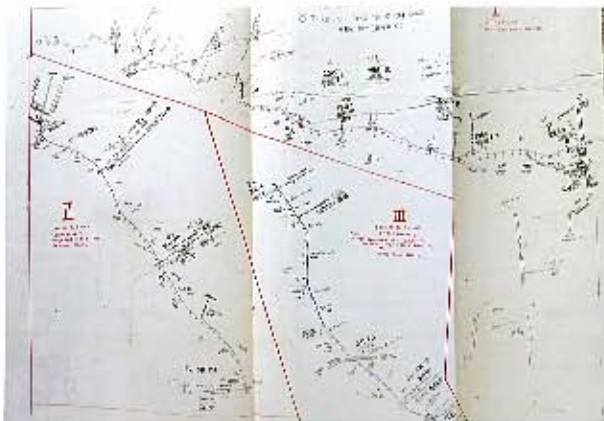


POSITION BEFORE WORK



Tamaswada

- **District: Wardha (Maharashtra)**
- **Taluka: Seloo**
- **Village: Tamaswada**
- **Area: 856 Ha**
- **Location; On Water divide(Ridge)**
- **Population: 424 (232 ST)**
- **Ann. Av. Rainfall: 1050 mm**
- **Occupation: Agriculture, Labour**
- **Cultivable Land: 429 Ha.**
- **Major Crops: Cotton, Soya been, Wheat etc.**
- **Irrigation: Very Limited (ground water)**
- **Job opportunities: almost Nil except Limited agriculture**
- **The people turned to local liquor preparation and selling.**
- **It had became major source of income.**
- **Increase in criminal activities, shifting to cities for job**
- **Govt servants consider there posting in village as punishment**



Traverse Survey



Meeting for Awareness



Demarcated Village plan



Damaged Structures

Desilting, Widening of Nala bed, Deepening of Nala bed over Narrow & Shallow Bed. In Short : To increase capacity to store rain water by Ten times than Previous.

Make the Pot bigger for Bigger Rain water Storage



Fully Silt up Nala Bed with Zero Storage Capacity March - 2011

TAMASWADA NALA RAIN WATER HARVESTING AND RECHARGING PROJECT (RIDGE TO VALLEY);
(AT TAMASWADA, TAH : SELU, DISTT : WARDHA - MAHARASHTRA);



WORK OF DESILTING, WIDENING, DEEPENING OF NALLA BED

TAMASWADA NALA RAIN WATER HARVESTING AND RECHARGING PROJECT (RIDGE TO VALLEY);
(AT TAMASWADA, TAH : SELU, DISTT : WARDHA - MAHARASHTRA)



WORK OF DESILTING, WIDENING, DEEPENING OF NALLA BED

Application of: Application & construction of cement plug, Gabion plug, U.C.R. Various Bandhara cement plug, Eathem plug, where requirement, strengthening of old structures (Existing), Provision of Earthen Dam at up streame side (Ridge side) to every masonry or cement plug useful for crossing Nala bed and to reduce high velocity of Runoff Water, For cattells to drink water from Nala Bed.



GABION BANDHA



**Gabion Bandhara
Using Local Material**

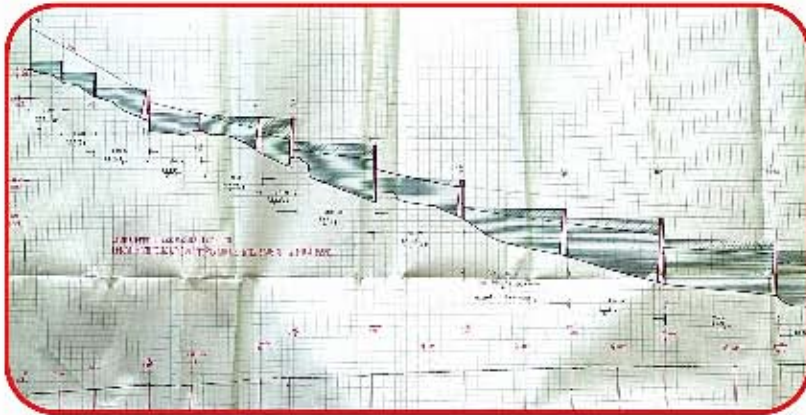


CEMENT NALA BANDH (C.N.B.)



**EARTHEN BANDHARA STONE PITCHING
(TO REDUCE HIGH VELOCITY) 500 MT POINT**

- Why to do :**
- To reduce high velocity of Runoff Rain Water.
 - To reduce process of silting by Runoff Water.
 - To Increase Storage Capacity of Nala bed to store Rain Water.
 - To stop Flood process.
 - To Recharge Ground Water Table. (Level of wells, Bore etc.)



Structures across Gradient of Nala Bed to reduce High Velocity of Runoff Rain Water flowing in the direction RIDGE to VALLEY

Widenning & Deepening of silted Nala Bed



Method of effective work: Excavation against Gradient within one span

RAIN WATER HARVESTING, CONSERVATION & RECHARGING :
 Provide Bigger size Rain water storage tank at up stream side of check Dam or cement dam.
 -Bigger the size of Pot - Bigger is Rain Water Storage - For Ground Water Recharge

① **Up stream side (RIDGE) Nala Bed**
 Check Dam
 RAIN WATER STORAGE SEEN ONLY IN JUN, JULY, AUG, SEP.
 To Valley

The storage in Rainy season subject to no Leagages and that is only for 4 months of rainy season.
 VERY LESS RAIN WATER STORAGE.

② **Up stream side (RIDGE) Nala Bed**
 Check Dam
 VERY LESS (NEARLY ZERO) Rain water storage seen from SEPT END Situation seen (Within 15 days from end of Rainy season)
 To Valley

Reason of Zero Rain Water Storage - No storage tank or pot at upstream side to store rain water coming from Ridge, No storage facility to store rain water with designed capacity of check Dam.
What is use of check Dam?

③ **Up stream side (RIDGE) Nala Bed**
 Check Dam
 YES! Here is Rain Water Storage at up stream of check Dam. can see in Oct, Nov, Dec, Jan, Feb. As Rain water storage facility is available.
 WATER STORAGE (Excavation of nala bed 1 to 3 mt below 50c Level and a concrete tile gutter)
 Checkd storage tank (Pot) tank to store Rain water to store Rain water by widening & deepening of Nala Bed
 To Valley

④ **Up stream side (RIDGE) Nala Bed**
 Check Dam
 YES! Still some Rain water is remaining in Nala bed in Apr, May, June Due to : Rain Water Stored in Excavated and widened Nala Bed, useful to recharge ground water table.
 Rain Water Storage
 To Valley

DRG. NOT TO SCALE
 4 DEC 2014

TO STORE MORE & MORE RAIN WATER as Rain Water is only Source. AVOID POSITION SHOWN IN 1 and 2 ADOPT THE TREATMENT SHOWN IN 3 AND 4

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PKT

Section after work with increased Rain Water Storage Capacity (BIGGER SIZE OF POT)

Position of Nala bed : Used to be dry in month of October
(Before treatment) within 15 days from end of rainy season.



↑ Fully Slit up Nala Bed, near to Zero Rain Water Storage Capacity ↓



Position of Nala bed : 2011-12 water available in Bed up to March end water Level of wells rise about 10 to 14 feet.(3 to 5 Meters)
(After treatment)
2012-13 water available in Bed up to may 15 May. water Level of wells Rise about 15 to 26 feet.
(5 to 8 Meters)



Year - 2012



29-4-2015



Year - 2012



Year - 2018



Water Level :
(About 27 open wells in command)

Dry Nala bed in October, Level of wells in surrounding in month of April-May was about 20 to 40 Feet below G.L. Before Treatment. Now water is available in Nala bed at some portion in month of April-May.
Level of wells in command of Nala bed about 8 to 14 feet from G.L.
Rise in level of wells about 15 to 26 feet.



Well of Ridge



Photo 13-03-2013



Well of Ridge-Full of Water

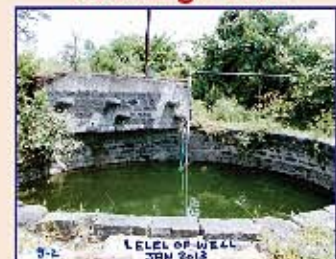


STORAGE 6 APRIL 2017



Recharged Dug Well & Farm Pond at the bank of Nala

Recharge Well



Level of Wells



Recharge Well

Facility :
 (About 27 open wells in command)
Crops:

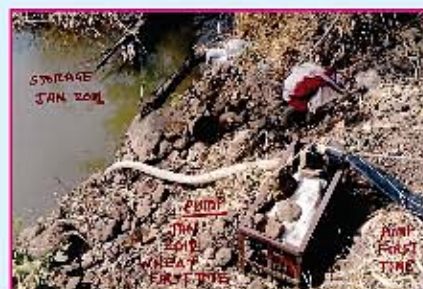
About 20 Diesel pump were applied in crop season 2012-13 to lift water From Nala bed for irrigation. (By farmers those who are not having open well) for Khariff, Rabi, & Summer crops Vegetables. Increase in area under cultivation (Various crops) kharriff, Rabbi, summer, vegetable, 2011-12, 2012-13, season (Agriculture)



Facility to lift from Nala Bed for Rabi Crops



Water For Cattles



Diesel Pump for Rabi Crop



VEGETABLE



GROUND NUT



SUGAR CANE



OWNED TRACTOR For Cultivation



Sugar Cane (Sprinkler)

	Year 2011-12	Year 2015-16
Area under Cultivation	Increase %	Increase %
1. Khariff (Cotton, Soyabeen, Toor)	20 %	150 %
2. Rabbi (Second Crop) Wheat, Gram	40 %	300 %
3. Summer (Sugarcane, Ground Nut)	20 %	400 %
4. Vegetables	10 %	50 %
5. First Time under cultivation Area about 40 acres. (Due to Flood Free)		

Impact of T P Nala Treatment (Ground Water Recharge)



IMPROVED CROPPING PATTERN DUE TO WORK



Salient features of multi conventional project

- Zero - Land Aquisition.
- Zero - Displacement.
- Zero - Rehabilitation.
- Zero - Compensation.
- Zero - Flood.
- Towards zero migration (Village to City).
- Zero - Drought.

Extra Facilities :

- Free - Water available (for Recharge) to water supply well of village.
- Free - Water available in Nala bed for cattles and Rabi Crops.
- Free - WBM Road on both bank of Nala bed prepared by using excavated material.
- Free - Conservation of Nature, Plants, due to water available.
- Free - Facility to lift water directly by Diesel pump from Nala bed for Irrigation.

<p>7</p> <p>7) Major Facility to lift water for Irrigation in Dry area by lifting water from Nala bed for Irrigation. Especially for Farmers not having well water available for Rabi up to End of March</p>			
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Lift Irrigation Using Water (surface) from Nala Bed.

<p>8</p> <p>8) Construction of WBM roads (free of Cost) on Banks of Nala Bed using excavated material. Very useful for farmers also Construction of C.D. Works for Farmers</p>			
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W.B. Roads Water for Cattles Road on Bank

- **Make Size of pot bigger & bigger**
- **Store more and more Rain Water**

<p>9</p> <p>1) Well of water supply to village Tamaswada is full of water due to recharging. Very much useful for of Tamaswada (Tribal Village)</p> <ul style="list-style-type: none"> ▶ Water for cattels, Animals ▶ Water for Domestic Purposes. ▶ Ample water for villagers. 			
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Achievement : Increased Ground water storage, Increased Ground water table and wells, increased area under cultivation, increased cattle farming increased rural employment, Reduced migration. In all remarkable increase in Income of Farmers, Agri labour. Ultimately high level of confidence in farmers due to growth of rural economy by increase in income of Farmers is achieved which will certainly stop unfortunate suicides of Farmers

Shravan Waghmare : (Farmer at Critical Position)



नाल्यातुन लिफ्ट



विहिरीची पातळी



नळयोजनेच्या विहिरीला फायदा



लागलेला ऊस



रब्बीपीकात वाढ



खरीफ क्षेत्रात वाढ



समृद्ध शेतकरी



नाला व विहिरी

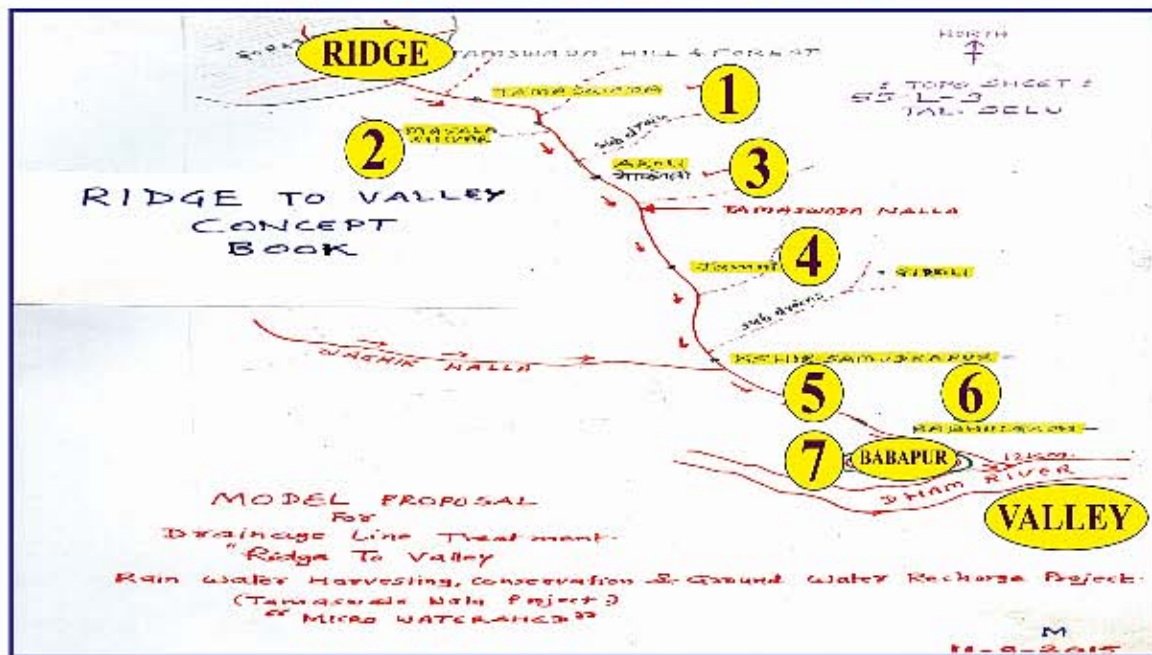
Scope of work: Every village is situated on the banks of River or Nala or small river.

• **APPEAL** •

" We know colonies & villages are established on the bank of River, Major River, Nalla, Drains, village Tanks due to availability of Water for all purpose. Today shortage of water is a serious problem. But there is a way as every colony or villages has some type of Natural water source and each water source has it is own catchment area to collect Rain Water. This catchment area is nothing but the micro and mini watersheds. Therefore it is necessary to develop these all micro watersheds and establish Rain Water Harvesting, Conservation and Ground Water Recharge project at various locations as many as possible. Let us start work today for ample availability of water in FUTURE."

SUGGESTIONS AND MODIFICATIONS ARE WELL COME.

GO- RIDGE TO VALLEY



TOPO GRAPHY (RIDGE TO VALLEY)



TOPO SHEET NO. 55 L-9

Cost Benifit Ratio : 2011-12 80 % Cost Benifit is achieved compared to expenditure within first year (Agri Season), 2011-12 In form of increase in crops, Income WBM Road cost, C. D. work cost, One plug U.C.R. by local material, Gabion, Earthen, Bandhara with local material.
 Cost Benifit Ratio, of project 2012-13.
 To be prepared at the end of may 2013.
 The Cost Benifit Ratio for First 2 years will be +1.2 as compared to Expenditure done.
 (for First stage of 3.5 Km length completed)

Execution : First portion of Nala 0 to 300mt. + 0 to 130 mt is Executed by Purti Sinchan Sammrudhi Kalyankari Sanstha (N.G.O.). Work of supervision over 3.5 Km. length. Provision of UCR plug, Gobain plugs, Earthen plug WBM Roads for farmers, Desilting, work is done by NGO Purti Sinchan. Also strengthing of old structure (Existing). One cement plug is Executed by minor irrigation (ZP) Wardha & rest six cement plugs and works are executed by office of Minor Irrigation Local sector, Nagpur Circle, by using local development funds from Mp. (Rajya Sabha) & MLC of Maharashtra.
 (Cost of work depends upon Location, Topography, Geology and Civil aspects)

-: WORK FOR :-

EFFECTIVE RUN OFF RAIN WATER MANAGEMENT (ACCORDING TO '3' ZONE)

-: DIRECTION :-

ESSENTIALLY "RIDGE TO VALLEY"

-: PRIORITY :-

RIDGE AREA DEVELOPMENT & MAXIMUM POSSIBLE PLANTATION

FOLLOW SEQUENCE FOR DEVELOPMENT / REJUVENATION

MICRO - MINI - MEGA WATERSHED - MINOR RIVER - MAJOR RIVER

Our Hopes : Such type of projects can be executed by sponsorship of Hon. Person, Institutes, Industries, N.G.O. which can help to stop suicides of Farmers and to make strong rural Economy of Agro dominated India.

Appeal : Please adopt one village or one Nala to execute above said project for Farmers & Rural Locality and Community.

-: Success Story :-

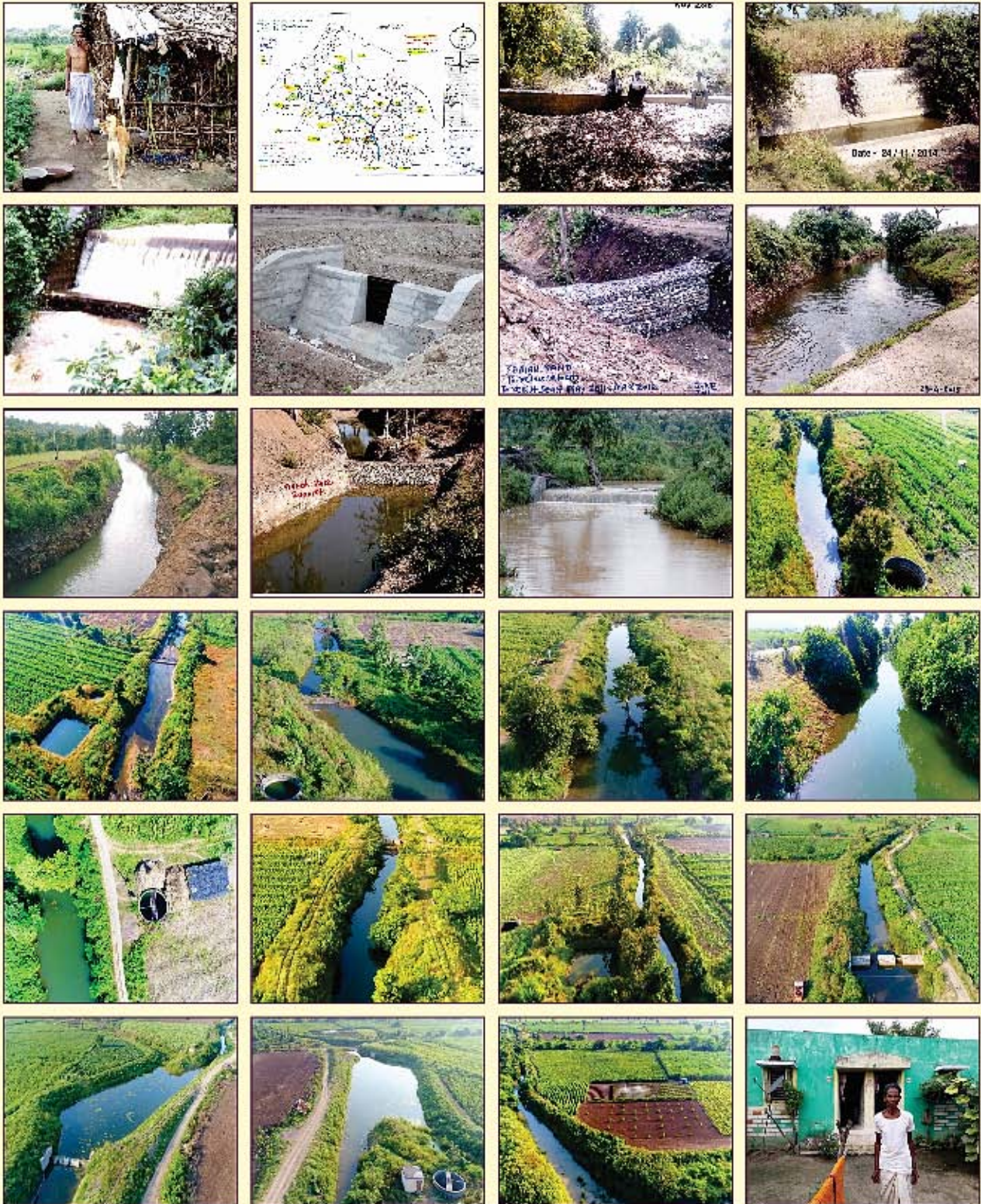
**Tamaswada Patteern (T.P.) Nala Treatment : Year 2010 to Year 2017
Oct 2010 to 31 Oct 2017**

Rain Water Storage after Treatment 2010 -2011-2012 '0' to 12 km "Ridge to Velley"

Ridge : Tamaswada Forest Hill

Valley : Dham River

(Objective : Ground Water Recharge)



VILLAGE : TAMASWADA, MASALA, AKOLI, JAMNI, KSHIRSAMUDRA, BABHULGGAON-BABAPUR - DHAM RIVER

TAH. SELOO, DIST. WARDHA, VIDARBHA REGION, STATE MAHARASHTRA, INDIA

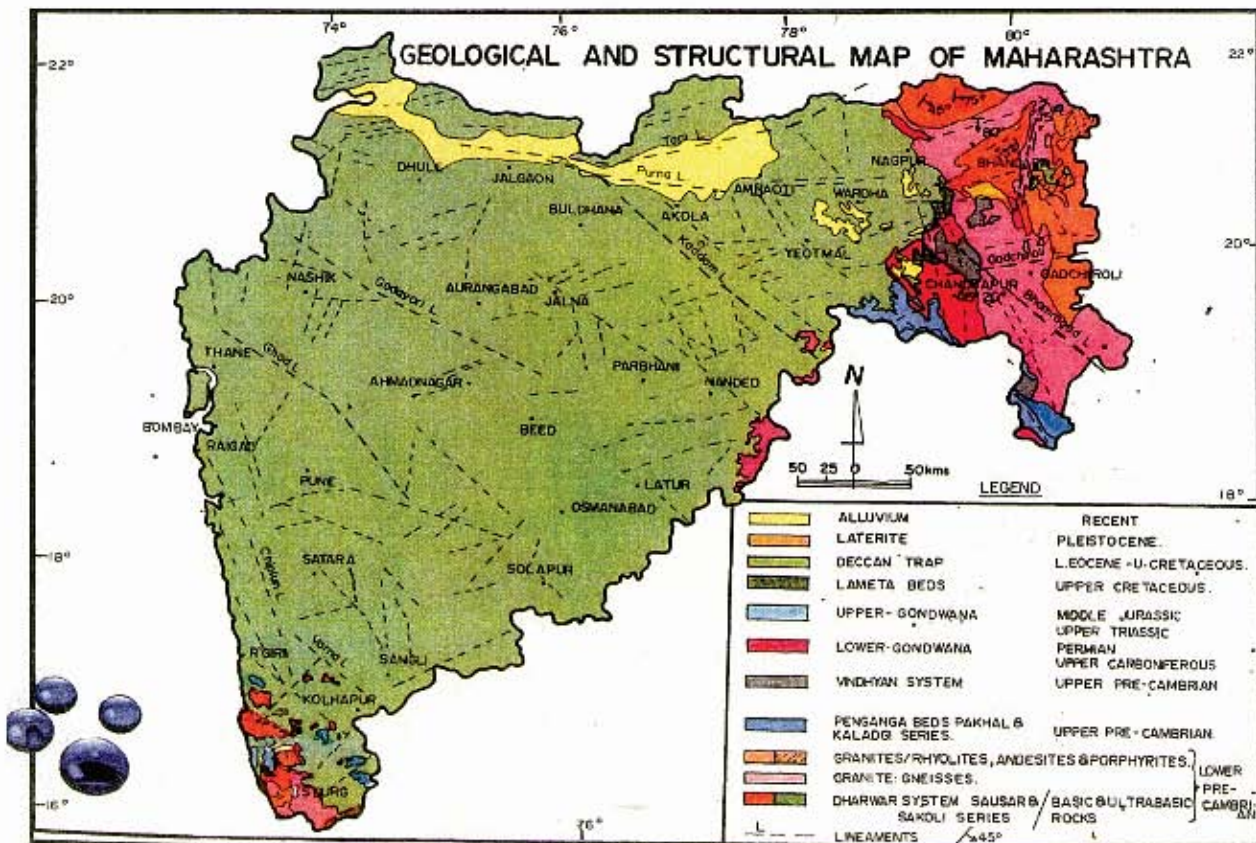
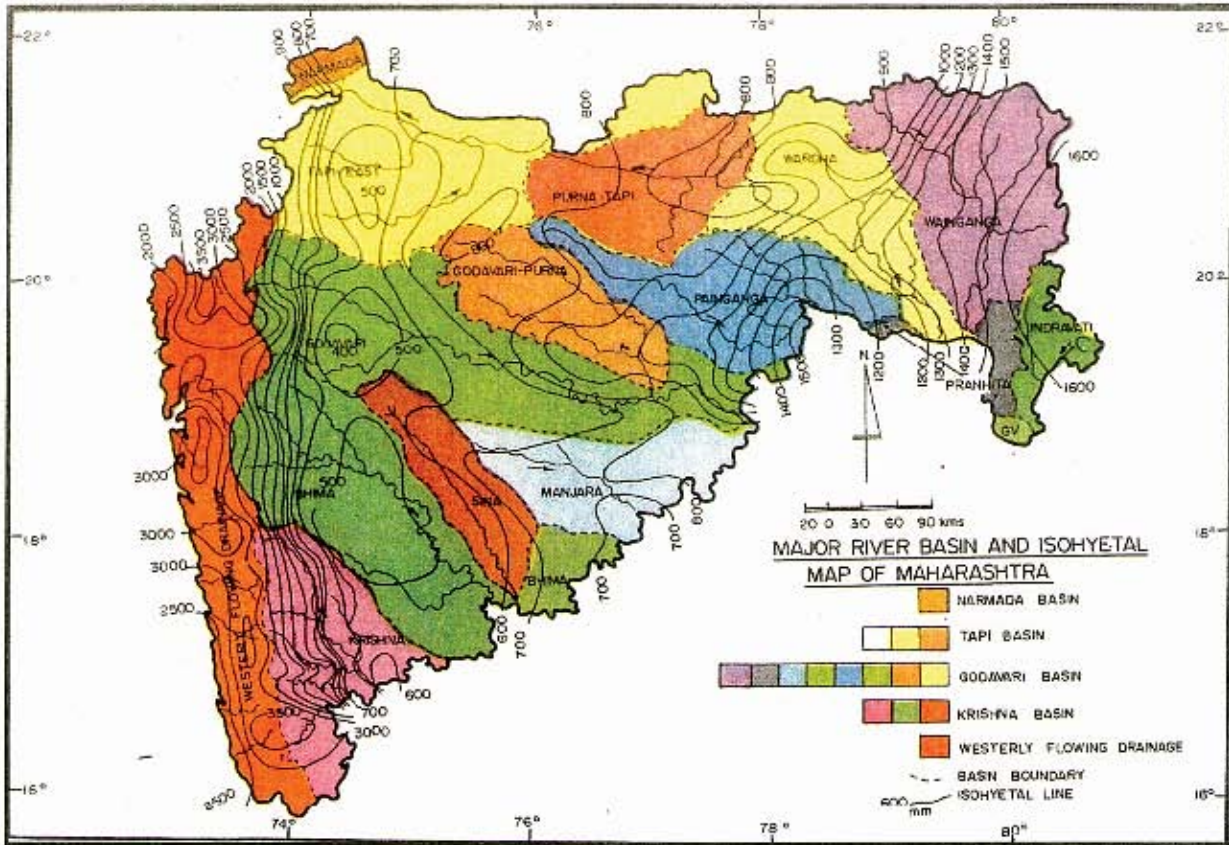
CONTACT : M.G. KOTASTHANE, CIVIL ENGINEER. : 09765426117, 09422142781, E-mail : mkotasthanem@gmail.com

PRAFULLDATTA JAMDAR, : 9922926771, E-mail : pvjanddar@gmail.com

SATYAJEET JAMBHULKAR, : 8554011155, E-mail : sjambhulkar88@gmail.com

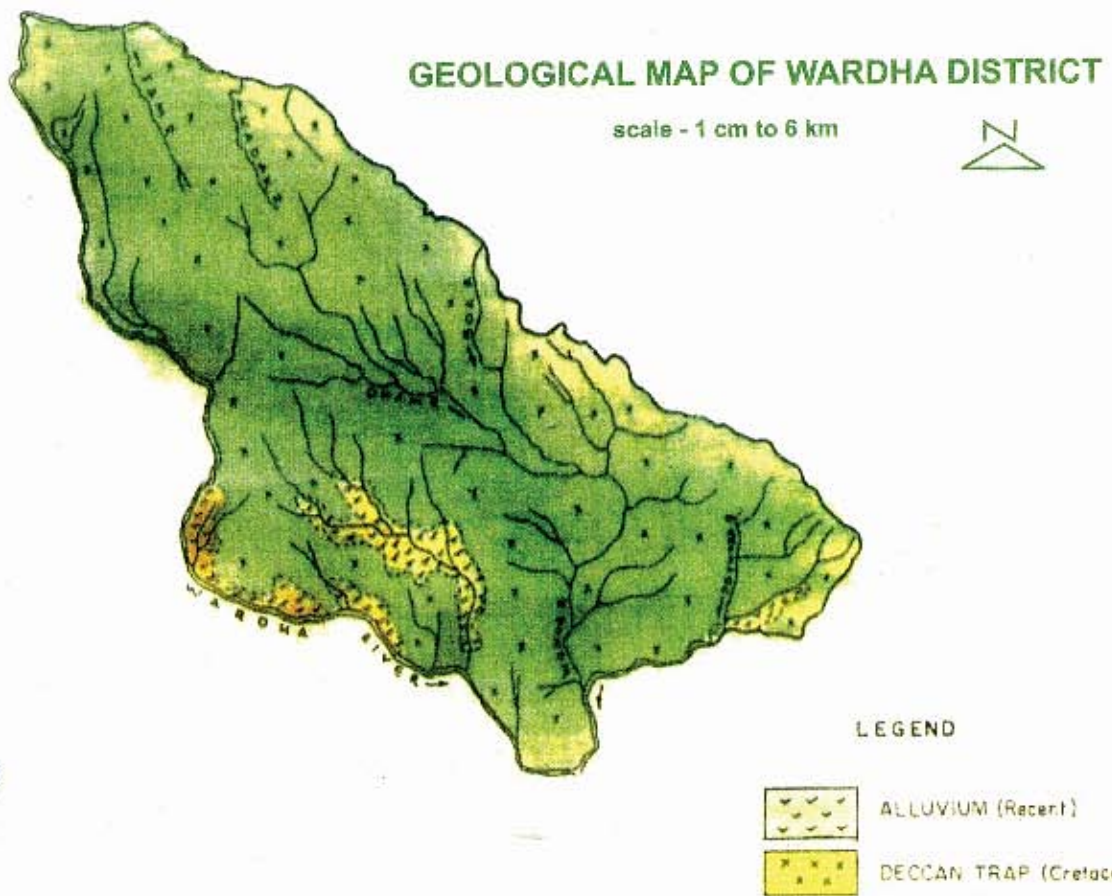
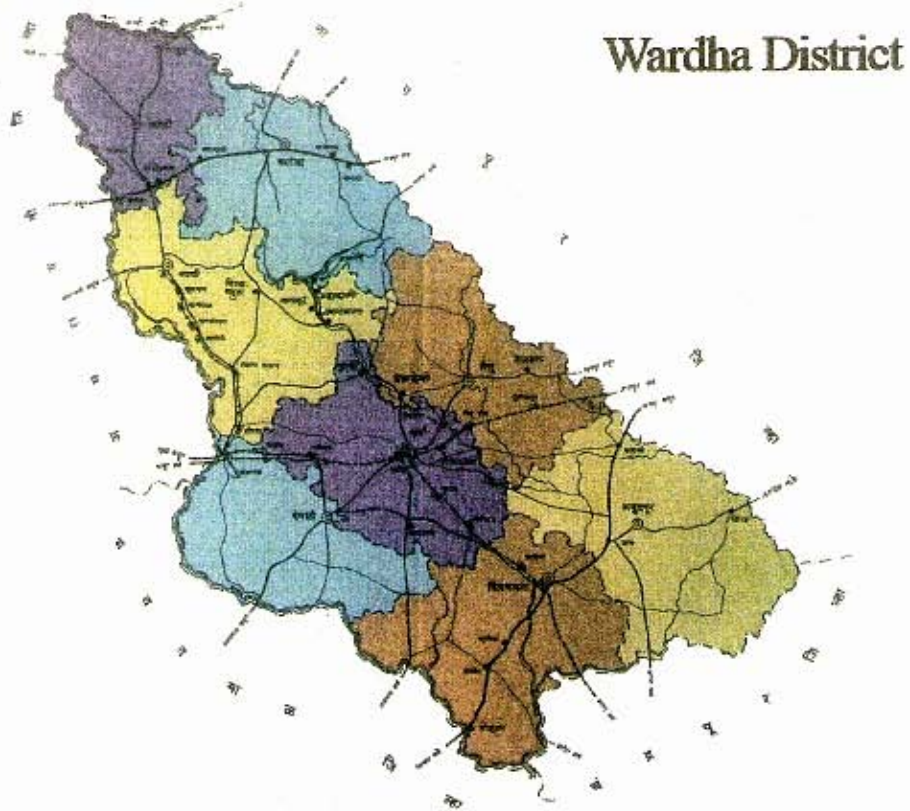
website : www.waterislife.org.in

MAPS



Let Conserve the precious water, or it will be available as TEARS in eyes only....

MAPS



Let Conserve the precious water, or it will be available as TEARS in eyes only....

-: MAPS :-

JOINT MAP OF VILLAGES MAP OF MICRO WATERSHED

(Villages Ridge to Valley)



(Mini Watershed Map)

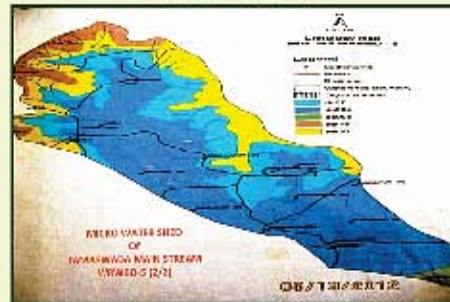


MAP CLASSIFICATION OF MICRO - WATERSHED



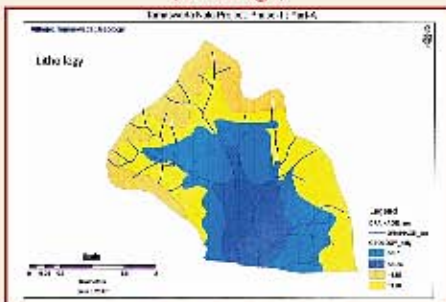
Wardha district

LITHOLOGY MAP (Mini vs WRWBD - 5)



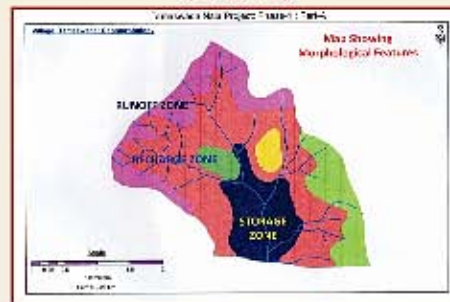
Micro Water Shed 2/2

MAP - LITHO LOGY (Drainage)



Village - Tamaswada

MAP - MORPHOLOGY ('3' Zone)

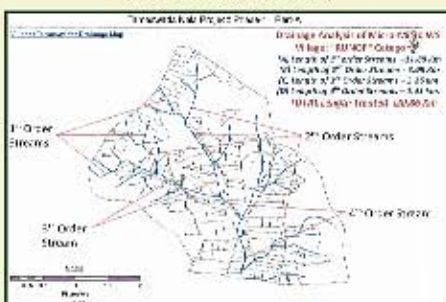


Village - Tamaswada

VILLAGE MAP (DEMARCATED)



DRAINAGE ANALYSIS MAP (For Micro Watershed)



DRAINAGE LINE MAP (WITH VILLAGE - TAHSIL - FOREST BOUNDRIES)



MICRO WATERSHED MAP (Main Stream - Sub Stream)



-: RIDGGE TO VALLEY :-



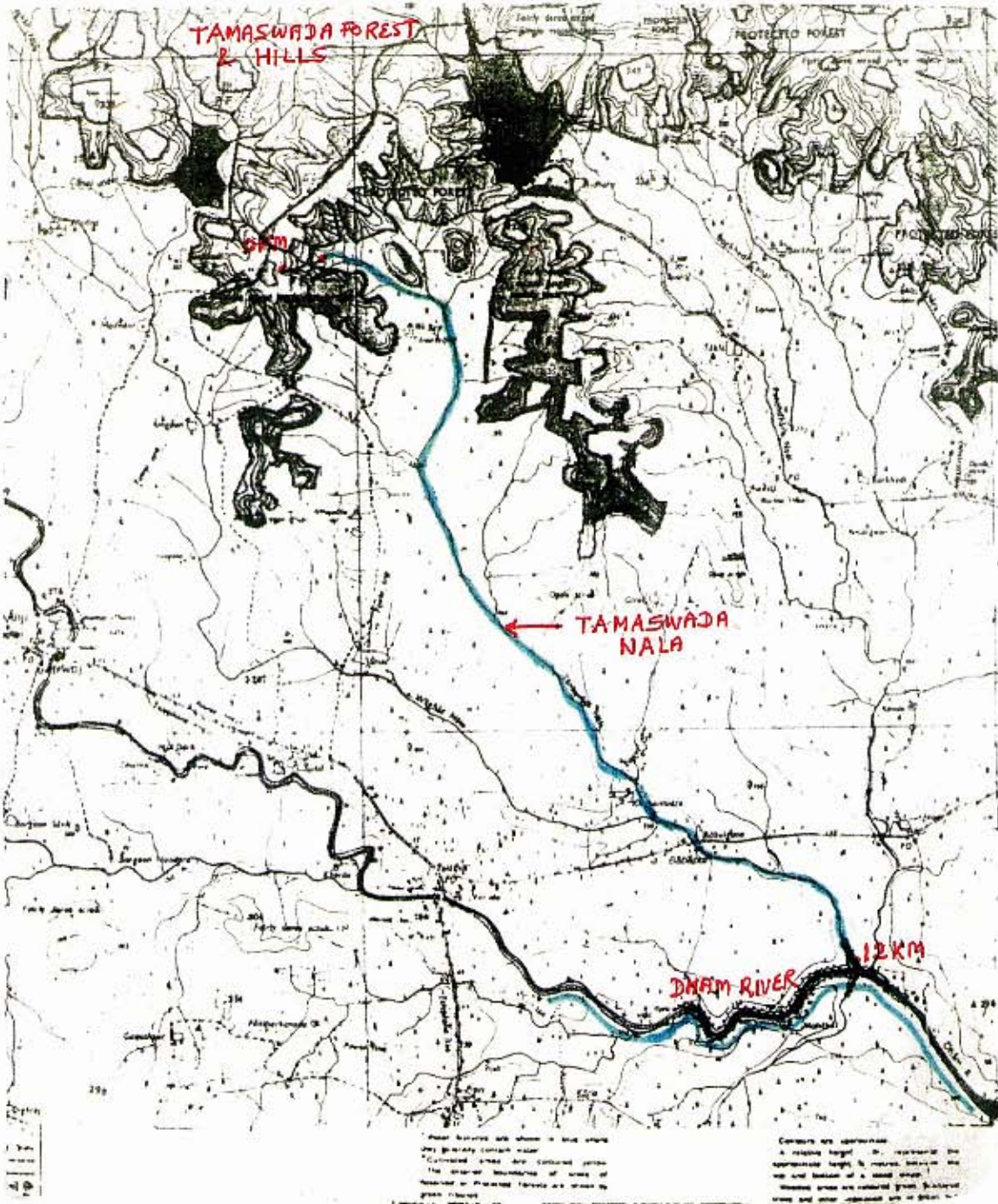
No. VNH 3182001
F-0811

PURTI SINCHAN SAMRUDDHI KALYANKARI SANSTHA (NGO)

Corp Off. : 164, SHIVAJI NAGAR, NAGPUR - 440010 (M.S) India, Ph. +91-712-2248172, 2248641, Fax : +91-712-2541272

Regd. Office (Postal Address) : Plot No. 4, Pratap Nagar, Wardha-442 001 (M.S.), India Ph. +91-7152-240477, 250687, Fax (P.P.) +91-7152-232373

TOPO Sheet No- 55 / L9



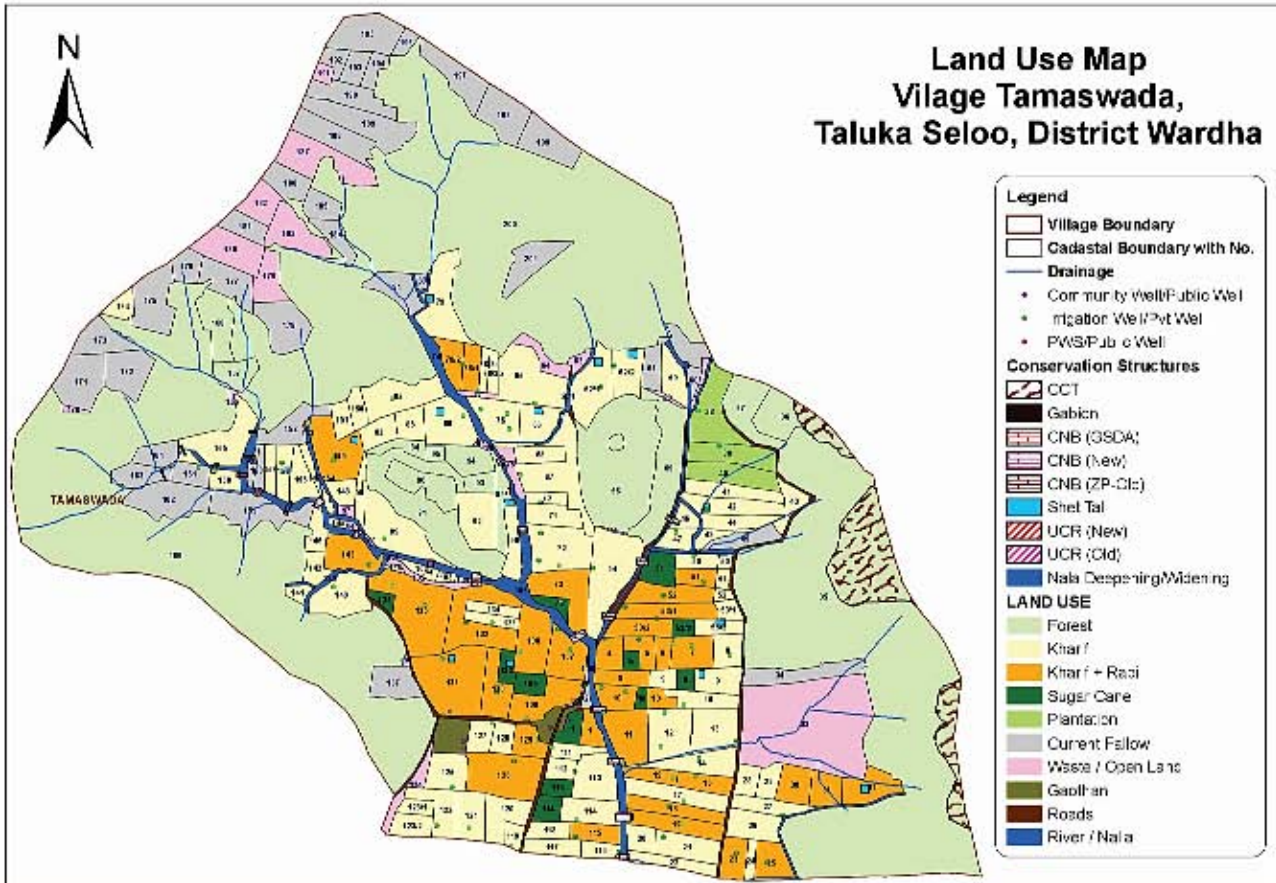
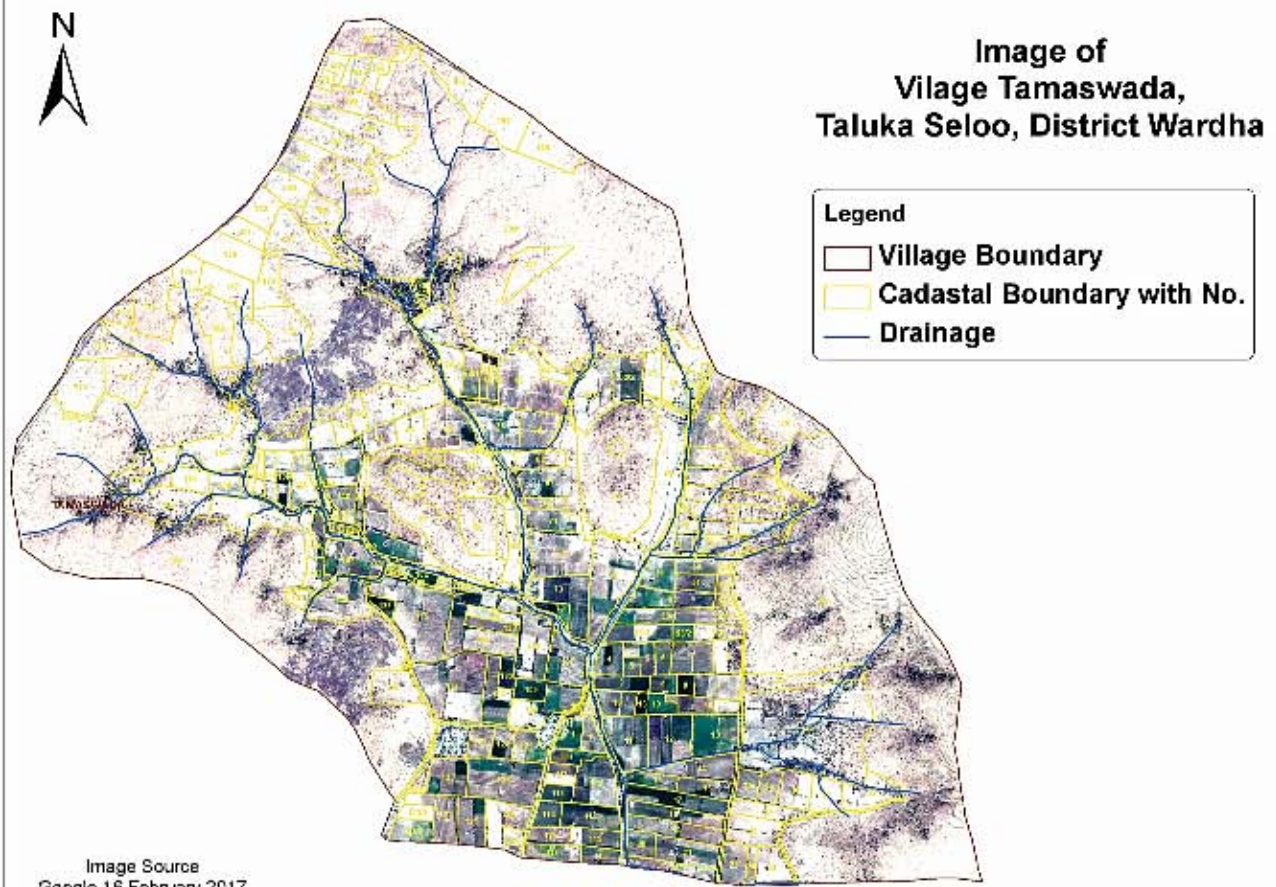
Let Conserve the precious water, or it will be available as TEARS in eyes only....

MAPS



Map of Land use and structures in Village Ground

MAPS



-: TAMASWADA PATTERN (TP) NALA TREATMENT :-

WATER - SHED DEV. SEQUENCE - STATE, DIST., MEGA, MINI, MICRO

STATE DIVISION : MAHARASHTRA & ANDHRA PRADESH "GODAVARI RIVER"

SUB RIVER OF "GODAVARI" RIVER : : "PRANHIITA" RIVER

SUB RIVER OF "PRANHIITA" RIVER : : "WARDHA" RIVER

WATERSHED : WARDHA DISTRICT : 39 No. MEGA WATERSHEDS

MEGA WATERSHED NO. WRWBD - 5 OUT OF 39 Mega Water Sheds

RIVERS : WR - WARDHA ; W - WENA ; B - BOR, ; D - DHAM

WRWBD - 5 AREA 10900 HACTORS & 2 MINI WATERSHEDS

MEGA - WATERSHED - WRWBD - 5

MINI WATERSHED 2/2 TAMASWADA NALA AREA : 5200 HACTORS				
MICRO WATER SHEDS (15 NOS)				
Sr.No.	VILLAGE GROUND	SQ.KM	HECTORS	
	Uninhabited / Code			
14	1	BABAPUR	2.184	218.4
11	2	KASIMPUR	1.006	100.6
2	3	AKOLI (UN)	10.35	1035.0
12	4	BABHULGAON	1.10	110.0
8	5	DAULTPUR	1.791	179.1
10	6	GANESHPUR (UN)	1.271	127.1
4	7	GIROLI	3.376	337.6
5	8	JAMNI	5.000	500.00
9	9	KSHIRSAMUDRA	3.348	334.80
7	10	KRUSHNAPUR	1.648	165.00
3	11	MHASALA	1.475	147.50
13	12	MOHODARA (UN)	1.199	199.90
6	13	SINGODA (UN)	1.435	143.50
1	14	TAMASWADA	8.568	856.80
15	15	TIRMALPUR (UN)	0.280	28.00
		TOTAL	52.00	5200

MEGA : : WRWBD : 5

10900 Hectors

MINI : : 2/2 (Tamaswada Nala)

5200 Hectors

MICRO : : 1 (Tamsawada Village)

856 Hectors

MINI WATERSHED ½ WAGHIR NALA AREA : 5700 HACTORS				
MICRO WATER SHEDS (10 NOS)				
Sr.No.	VILLAGE GROUND	SQ.KM	HECTORS	
	Uninhabited / Code			
1	BORKHEDI (UN)	4.815	481.5	
2	BRAHMANWADA(UN)	4.390	439.0	
3	MADNA	9.350	935.0	
4	MALEGAON (KALI) (UN)	0.780	78.0	
5	MALEGAON (THEKA)	7.960	796.0	
6	BORGAON GONDI (UN)	12.400	1240.0	
7	SUSUND	15.780	1578.0	
8	MADANI	2.404	240.4	
9	WADGAON	2.480	248.0	
10	AMGAON (MADNI)	5.366	536.6	
	TOTAL	57.00	5700	

NOTE : RIDGE TO VALLEY :-
Numbers shown **Red** indicates the seequence of village Ground (Micro Watershed) in the direction (Tamaswada Mini Water Shed)

"RIDGE TO VALLEY"

Madhao G. Kotasthane

Civil Engineer

9765426117, 9422142781

4, Pratap Nagar, WARDHA : 27 July 2018

- 442001 (M.S.) INDIA

: VISITS :



Visit - Tamaswada Water Conservation Project
At Tamaswada Tal. Tal. Dist. Wardha
Hon. Shri - J. V. K. Bhusari
Member of RTI APUS New Delhi
JUN - 01 - 10 - 2013



C. R. W Sanstha
Visit to Tamaswada Project
Date - 09/01/2014

Visitors

- 1) Hon. Shri Nitingi Gadkar.
- 2) Hon. Collector Wardha With S.D.O. Tahsildar.
- 3) D.G.M Nabard (Ammavati Division).
- 4) Hon. President, Zila Parishad Wardha .
- 5) Hon. C.E.O Zila Parishad .
- 6) Hon. Jt. Director Agriculture Nagpur.
- 7) Senior Geologist , Shri Khanapurkar, Shri. Kali.
- 8) Supp. Engineer, Executive Engineer of Irrigation Dept.
- 9) Member of Centre For Rural Welfare, Nagpur.
- 10) MLA, X - MLA.
- 11) Many Groups of Farmer's.
- 12) X - Chief. Secretary (Home) Maharashtra State.
- 13) District Planning Officer.
- 14) Officers of Agriculture Department.
- 15) Press- Correspondence, Dist. Heads.
- 16) Hon. President, All India Builder's Association.
- 17) X-Regional Manager's Bank of India.
- 18) Director of Indian Society For Agriculture Professional, New Delhi.
- 19) Zilla Parishad Member's.
- 20) Member's of Bajaj Foundation.
- 21) X-Vice President Pepsu-Cola.
- 22) Convener - All India Water Conservation Cell, BJP.
- 23) Shri- Chobe Geologist, Bastar, State- Chhatisagadha.
- 24) Correspondence of Times Now Channel New Delhi.
- 25) Aluminies of J.B Science College Wardha (M.S).
- 26) Channel Frontier TV 24*7 Hon. Smt Manoranjana Sing. New Delhi.
- 27) Dr. Ghuge, Director Nisarg Vidhyay Kendra. Nagpur.
- 28) Dr. Uday Nirgudkar, CEO- Zee 24 Taas
- 29) X-MLA Rani Amila Sing, Amethi (Uttar Pradesh) X- Education Minister
- 30) Head Correspondence Shri . Sunilji Kulkar, Tarun Bharat, Mumbai.
- 31) X-MP Delegation From Arunachal / Manipur .
- 32) Editor - Daily Jagran, Shahdol, (Madhya Pradesh)
- 33) M.D / C.Eo Shri Dive, Purli Group
- 34) Hon. Shri Sanjeev Prakash CEO, ANI



Rajyasabha TV
Smt. Nilu
Date - 7 / 12 / 2014

PARTICIPATION & PRESS COVERAGE

Participation :- (Water Conservation Area)

- 1) Conclave at Mumbai Conducted by Sakal Group. (April 2013)
- 2) Workshop at Sawaleshar Dist. Solapur Conducted by Lokamanya Group. (03 May 2013)
- 3) Workshop at Nagpur – By Agro Vision Nagpur. (05 may 2013)
- 4) Workshop at Paradsinga Dist. Nagpur By Agro Vision. (03 June 2013)
- 5) Seminar with Hon. MP. Shri Dhotre at Akola.
- 6) Workshop Conducted by Grahak Panchayat Nagpur. (Customer Forum) Dt. Feb 2013
- 7) Workshop at Nagpur : Global Gandhian Trust ship & Corporate Responsibility Foundation (May 2013)
- 8) Sinchan Parishad Ashti Dist. Wardha For Upper Wardha Project (Irrigation)



Appreciated and Publicity by :

- 1) Z-24 Tass 30min. Documentary Date – 25/may/2013
- 2) Times of India
- 3) Mi - Marathi
- 4) Regional & National News Paper :
Tarun Bharat, Deshonnati, Sakal, Bhaskar, Lokshahi Warta,
Punya Nagri, Sahasik, Navmat, Loksatta, Navbharat.
- 5) All Beneficiaries of Tamaswada Water Conservation Project, Many Farmers, Agri. Labour & Villagers.



TAMASWADA NALA RAIN WATER HARVESTING AND RECHARGING PROJECT (RIDGE TO VALLEY)
(AT TAMASWADA, TAH : SELU, DISTT : WARDHA - MAHARASHTRA)



Date- 14 / 04 / 2013

"STORED RAIN WATER STILL EXIST ON SURFACE "
MONTH - APRIL 2014

तामसवाडा नाला पुनर्भरणामुळे जलसंधारण प्रकल्प

तामसवाडा नाला पुनर्भरणामुळे जलसंधारण प्रकल्प

तामसवाडा नाला पुनर्भरणामुळे जलसंधारण प्रकल्प

भूजल मंथन

जल संधारणामुळे भूजल प्रदूषण

भूजल

जल संधारणामुळे भूजल प्रदूषण

वर्धा

तामसवाडा नाला पुनर्भरणामुळे जलक्रांती

शेतकऱ्यांची झालेली समस्या दूर : जलसंधारणाच्या पुनरुज्जीवनाच्या अभिनव प्रयोग

भूजल मंथनचे शिलेदार

तामसवाडामुळे १२०० हेक्टर जमीन तृप्त

तामसवाडा नाला पुनर्भरणामुळे जलसंधारण प्रकल्प

शेतकऱ्यांच्या समस्या दूर : जलसंधारणाच्या पुनरुज्जीवनाच्या अभिनव प्रयोग

SHIRPUR PATTERN BESTOWS NEW LIFE ON WARDHA STREAM

Govt Continues To Give The Development

तामसवाडा येथे जलसंधारण प्रकल्पाची निर्मिती

पूर्वी उद्योग समूहाचे अध्यक्ष नितीन गडकरी यांच्या पुढाकाराने प्रकल्प पूर्ण

केंद्रीय मंत्र्यांकडून तामसवाडा प्रकल्पाची पाहणी

जल संधारणामुळे भूजल प्रदूषण

सिंचाई क्षमता बढाने तामसवाडा सक्षम

केंद्रीय राज्यमंत्री अजुन मेघवाल ने किया प्रकल्प का निरीक्षण

Arjun Ram Meghwal

तामसवाडा-वर्धा में बारिश के पानी को एकत्र करने का प्राचीनों ने संकल्प लिया व करके भी दिखाया, उसी जल के माध्यम से होती, पशुपालन व मत्स्यपालन के जरिये किसानों की आय दुगुनी नहीं बल्कि तीन गुना हो गयी है, गाँव की सफलता से सभी को सीख लेनी चाहिए #nitin_gadkari जी को सोच को साधुवाद

Ramdas Tadas

Along with Hon Sh @arjunrammeghwal ji visited village Tamaswada District Wardha in my Loksabha Parliamentary Constituency and inspected one of the most innovative Tamaswada Water Conservation Project which is completed under the observation of Hon Sh @nitin_gadkari ji

Water Conservation Award - Year 2015



वसंतराव नाईक

जलसंधारण पुरस्कार - २०१५

श्री. माधव गो. कोटस्थाने

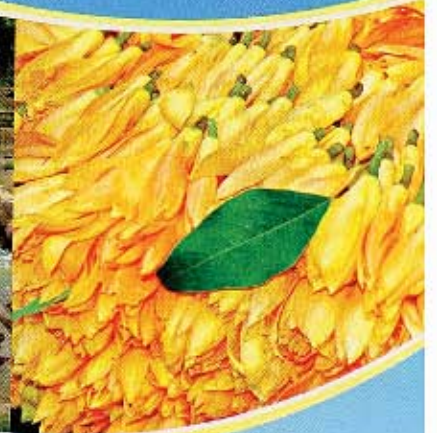
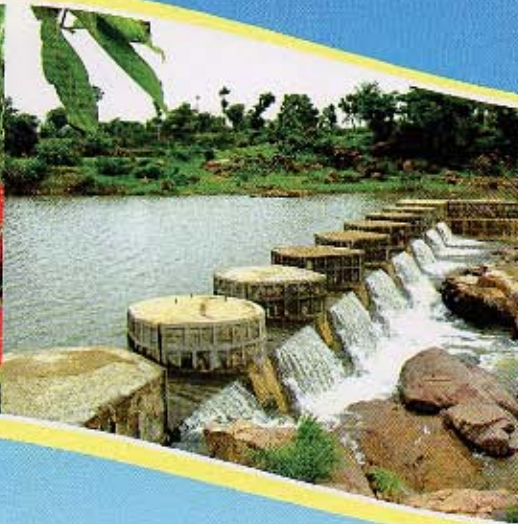
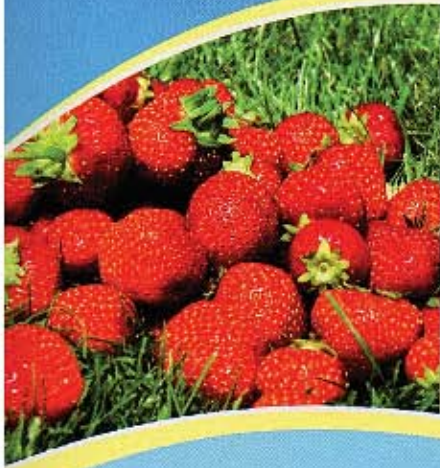
प्लॉट नं. ४, प्रतापनगर

वर्धा ४४२००९, जि. वर्धा

मोबाईल ०९७६५४२६९९७, ९४२२९४२७८९

वर्धा जिल्ह्यातील तामसवाडा या डोंगराळ भागातील आदिवासी गांव आहे. या ठिकाणी उगम ते संगम या संकल्पनेतून नाला पुनर्भरणाचा उपक्रम राबविण्यात आला. श्री. माधव कोटस्थाने ह्यांनी तामसवाडा प्रकल्प राबवण्यामध्ये महत्वाची भूमिका बजावली आहे. शेतकऱ्यांच्या सहभागाने २०११ पासून नाला खोलीकरण, गाळविरहितीकरण, रुंदीकरण या कामाला प्रत्यक्ष सुरुवात झाली. यामध्ये सिमेंट साठवण बांध, नऊ मातीबांध, दगडी बांध, नालारुंदीकरणाचे काम प्रत्यक्ष करण्यात आले. आज जवळपासच्या सहा गावांना २४ तास पाणीपुरवठा होत आहे. तसेच १०० एकर जमीन पुरापासून मुक्त करण्यात आली आहे. पहिल्या टप्प्यात १० हजार क्युबिक मीटर पाणीसाठा तयार झाला. सिंचनाची सोय झाल्यामुळे कापूस, सोयाबीन, तूर, चणा, गहू, भुईमूग, उस, भाजीपाला यांचे उत्पादन वाढले. या प्रकल्पावर झालेल्या खर्चाच्या तुलनेत दोन वर्षात शेतकऱ्यांचे वाढलेले उत्पन्न, वाढलेले पीकक्षेत्र व सिंचनाच्या पाण्यामुळे झालेला आर्थिक फायदा ही विशेष बाब आहे.





वसंतराव नाईक कृषि पुरस्कार

वितरण समारंभ

शुक्रवार दि. १० जुलै २०१५

स्मरणिका

कै. वसंतराव नाईक



१०२

१०२

१९१३ - २०१५

वसंतराव नाईक कृषि संशोधन व ग्रामीण विकास प्रतिष्ठान

WATER CONSERVATION AWARD BY

O - POSITIVE FOUNDATION

Year - 2017



**Congratulations by Hon. Union Minister
Shri Nitinji Gadkari for Appointment on
IWMP (Steering Committee) Gov. of India**



**Festive Reception Organized by Tarun Bharat
Hon. Minister Sudhirji Mungantiwar**





Government of India
Ministry of Water Resources
River Development & Ganga Rejuvenation

Bhujal Manthan

16th - 17th February 2018
Nagpur



ABSTRACT VOLUME

**PARTICIPATORY
GROUND WATER MANAGEMENT
&
LOW COST ARTIFICIAL RECHARGE MEASURES
FOR GROUNDWATER AUGMENTATION**



Organized by
Central Ground Water Board
2018



Bhujal Manthan

ABSTRACT VOLUME

**PARTICIPATORY GROUND WATER MANAGEMENT
&
LOW COST ARTIFICIAL RECHARGE MEASURES
FOR GROUNDWATER AUGMENTATION**

16th and 17th February 2018

Nagpur

Central Ground Water Board
Ministry of Water Resources,
River Development & Ganga Rejuvenation
Government of India

2018

Tamaswada Pattern (TP) Nalla Treatment

Madhao Govind Kotasthane

Secretary, Purti Sinchan Samruddhi & Kalyankari Sanstha

ABSTRACT

Groundwater, a most dependable source of country's water supply, responsible for food security through green revolution, meets more than 80% rural drinking water supply & also supports the industrial development in many cases is now under threat. The ever-increasing demand to meet the various needs of growing population has resulted in large scale depletion of the precious source in many parts of the country due to its unplanned, unmanaged & haphazard development. The large scale drying up of water supply wells, which was first noticed in late eighties & early nineties, has drawn the attention of hydro-geologists & water supply managers for finding ways to offset the problems of groundwater over exploitation. This over exploitation has also resulted in drinking water scarcity. Thus need was felt to evolve suitable technology to augment the groundwater sources through appropriate measures. Rainwater harvesting & artificial recharge techniques based on traditional knowledge coupled with modern technology can play an important role in this regard. Considering the severity of the problem, various interventions like Percolation Tanks, Nalla Bunds, Gabion structures, loose boulder structure, Cement Nala Bund, Continuous Contour Trench etc. have been constructed on large scale by various departments in the country.

The initial results after implementation of these techniques were very encouraging & have resulted in augmentation of groundwater resource. Subsequently, over a period of time, many of these small & tiny water conservation structures have become defunct due to lack of maintenance. During various field surveys, it has been observed that many of such structures are damaged & have lost/ reduced their storage and recharge capacity due to heavy silting, which at times leads to increased runoff and localized flooding during monsoon.

Considering the above facts, an initiative was taken up by **Purti Sinchan Samruddhi & Kalyankari Sanstha** (NGO), Wardha, Maharashtra to evolve an innovative Tamaswada Pattern (TP) nalla treatment technique which restores and enhances the capacity of existing structures thereby ensuring water security and fulfilling the key objectives of various recharge schemes of government. The TP nalla Treatment technique works with peoples' participation as the system after its restoration is to be maintained & managed by beneficiaries.

The steps involved in implementation of the TP Nalla Treatment system are as follows.

1. Consultations with community and local water user (farmers) groups to understand the local water supply issues.
2. Assessment of local demand and supply of water from various sources, efforts made by government to bridge the gap between demand & supply.



3. Identification of all the recharge structures constructed in watershed/Village, marking of their locations on Drainage Map using GIS platform, collection of historical data on local physiography, hydrogeology, water level scenario, rainfall, cropping pattern etc.
4. Assessment of damage to existing recharge structures & survey of nalla bed to be taken up for treatment.
5. Identification of locations of additional recharge structures to be taken up on same nalla bed upstream to reduce the silt load, hydraulic pressure and also improve the storage, recharge capacity considering the gradient & physiographical conditions.
6. Preparation of Watershed/ Village water security plans including various activities to be taken up.
7. Preparation of DPR, Estimates, and also planning for execution of work

The activities to be taken up under TP Nalla Treatment system ...

- a) Removal of silt from existing water conservation structures.
- b) Widening of nalla within the revenue limit by removing the loose material without disturbing the natural nalla course.
- c) Deepening of nalla maximum up to 3 meters depending upon the shape, size, length, depth of weathering, Local hydrogeology and physiographic conditions on reverse gradient.
- d) Construction of additional water conservation structures on upstream side to reduce floods & also to create additional storage to facilitate maximum recharge.
- e) Plantation on both banks of nalla to avoid the soil erosion and siltation.
- f) Awareness & capacity building up of end users/ Stake holders for maintenance of entire work taken up & Judicious use of available water resources by adopting appropriate water efficiency measures and change in cropping pattern.

Results of pilot study taken up at village Tamaswada, Taluka Selu, District Wardha, Maharashtra, are very encouraging. Repairs, widening & deepening of 15 existing structures were taken up along with construction of 10 new structures. As such, Nalla treatment work of Total 3.5 line kilometers have been taken up which has created total storage capacity of 105 Thousand cubic meter. The impact analysis of this scheme is tabulated below.



Item	Before	After	%
No. of wells with Pump set	10	27	170%
Khariif	190 ha.	305 ha.	150%
Rabi	0 ha.	15 ha.	
Perennial Crops			
Sugar cane	4 ha.	16 ha.	400%
Ground nuts & Vegetables	0 ha.	16 ha.	
Horticulture	Almost Nil	6 ha.	
Area not Available due to flood During Monsoon	24 ha.	0	Increase in additional Agriculture land
No. of Milking Animals	70	190	270%
Milk Production	180 lits	550 lits	300%
Goats	60	300	Producing > 2000 kg of Mutton / year
Tractor	1	4	
Per family Net Av. Income / month	Rs. 4,906.00	Rs. 17,217.00	350%
<ul style="list-style-type: none"> • Animal dung increase to 600 tons/year due to increase in animals, led to reduction in use of chemical fertilizer resulted in Saving in capital cost of agriculture. • Reduction in migration due to increase in job opportunities. • Increase in land valuation 			

The scheme can be taken up on large scale for improving the storage capacity and recharge efficiency of existing recharge structures in any hard rock terrain of the country. However, it can also be taken with suitable modifications in areas occupied by soft Rock/Alluviumie.by constructing recharge shaft/ well in storage area of the water conservation structure with provisions of filter.



॥ प्रकल्प अहवाल ॥

“मायक्रो वॉटरशेड विकास आधारित जलसंवर्धन प्रकल्प” साटोडा-महाकाळ, तह. वर्धा, जि. वर्धा, (महाराष्ट्र)

गत कई सालोंसे पानीकी बढ़ती किल्लत एवम् भीषण अकाल खासकर ग्रामीण परिसरमे दिखाई दे रहा है। वर्षाजल का उचित संवर्धन तथा भूजल का नियमित पुनर्भरण कार्य आवश्यक मात्रा मे नही होने के कारण यह परिस्थिती सामने आयी है। भूजल पुनर्भरण हर मायक्रो वॉटरशेड का विकास ड्रेनेज लाईन ट्रीटमेंट से होना संभव है जिस कारण जलयुक्त तथा बाढ़ मुक्त स्थिती वास्तव मे आना सहज संभव है। इसी तत्व के आधारपर निम्नलिखित कार्य सन 2017 मे किया गया।

- 1) सद्भावना ग्रामीण विकास संस्था (NGO) वर्धा द्वारा यह मॉडेल कार्य जवाहर नेहरु पोर्ट ट्रस्ट मुंबई द्वारा अनुदानित सी. एस. आर. निधी से किया गया।
- 2) इस कार्य के लिए गाव साटोडा-महाकाळ यह मायक्रोवॉटरशेड चुना गया। ग्रामसभा के चर्चा व ग्रामसभाका इस काम के लिए आवश्यकतापर ठराव लिया गया तथा रिज टू व्हॅली तत्वानुसार इन दो गावों के परिसर मे नष्ट हुए ड्रेनेज लाईन (नाला) ट्रीटमेंट का कार्य शुरु करने हेतु सर्वेक्षण किया गया।
- 3) सर्वेक्षण एवम् साईट कंडीशननुसार नाला बेड मे डिसिल्टिंग, डिपनिंग, वाईडनिंग कार्य किया गया। वर्षा जल का संचय होने हेतु तथा वर्षा के बहते पानी का उचित प्रबंधन हेतु यह कार्य किया गया।
- 4) इस कार्य दौरान रिज एरिया मे गॅबिऑन बांधोका एवम् किसानो के पारंपारिक रास्तो को पार करने हेतु सी.डी. वर्क्स (छोटे सिमेंट पाईप पूल) का प्रावधान किया गया है।
- 5) इस कार्य दौरान नालोके दोनो बाजूओंपर बांबू का वृक्षारोपन किया गया है। तथा घास की बीज डाली गयी जिससे मट्टीका घर्षण इरोजन कम हो तथा नालोके काठ हरित रहे।
- 6) इस कार्य दौरान पुराने अस्तित्वमे बांधकाम स्ट्रक्चर्स छोडकर किसी नए स्ट्रक्चर का (सिमेंट) निर्माण नही किया गया।
- 7) नजदीक पास 7 किलोमीटर लंबाई के लिए कार्य किया गया जिस कारण यह ड्रेनेज लाईन की अल्प जल संचय क्षमता जो अंदाजन 30 टी सी एम थी वह यह कार्य के बाद मे अंदाजन 150 टीसीएम हुई है।
- 8) इस कार्य से 7 किलोमीटर लंबाई मे अंदाजन 150 टीसीएम भूपृष्ठीय जल संचय क्षमता निर्माण हुई तथा भूजल के लिए 3 पुनर्भरण प्रक्रिया ध्यान मे रखते हुये 450 टीसीएम पानी का पुनर्भरण शालों अँक्वोफरमे हुआ है। जिसके माध्यम से बाष्पीभवन लॉस छोडकर अंदाजन 338 टीसीएम पानी (3 लाख 38 हजार घन मिटर) उपयोग के लिए भूजल संचय के माध्यम से उपलब्ध हुआ है।
- 9) इस कार्य के कारण जल संचय क्षमता बडे पैमानेपर बढ़नेसे एवम् इस कार्य के कारण वर्षा जल का गती से बहने वाला पानी कम गतीसे बहने के कारण बडी मात्रा मे वर्षा जल से बाढ आने के प्रमाण के बडी मात्रा मे कमी आयी है। और बाढ से वंचित क्षेत्र अब कल्टीवेशन के लिए उपलब्ध है।
- 10) इस 7 कि.मि. लंबाई के कार्यक्षेत्र मे भूजल पुनर्भरण से लाभान्वित क्षेत्र अंदाजन 700 हेक्टर है जिस क्षेत्रमे कार्य के कारण कुओं, बोअरवेल के माध्यम से पर्याप्त पानी उपलब्ध हो रहा है। इस कार्यो से परिसर मे स्थित कुओं का बडे पैमानेपर पुनर्भरण हो रहा है।
- 11) प्रकल्प को पूर्ण किए हुए एक ही साल बीता है परंतु इसके अच्छे परिणाम पहले वर्षा ऋतु मे (जून 2017 - सप्टेंबर 2017) स्पष्ट दिखाई दे रहा है। जिसका समाधान कार्यक्षेत्र मे स्थित किसानोंने व्यक्त किया है। सराहा है। आगामी वर्षो मे इस कार्य से जलयुक्त तथा बाढमुक्त स्थिती आना सहज संभव है।
- 12) इस प्रकारके कार्यसे किसानोंका नुकसान (बाढसे) बचने वाला है एवम् भूजल पुनर्भरण द्वारा पानी की उपलब्धता के कारण खेती, कृषि व्यवसाय, पशुपालन, सब्जी उत्पादन, रब्बी एवम् समर क्रॉप के लिए प्रगती होना निश्चित है। इसके कारण ग्रामीण अर्थव्यवस्था मजबूत होना एवम् ग्रामीण परिवार का उत्पन्न (आय) दुगनी या तिगनी होना सहज संभव है। इसी प्रकार यह कार्य पूर्ण रूपसे नैसर्गिक रहने के कारण बहुमोल पर्यावरण का संरक्षण-संवर्धन हो रहा है। जिससे क्लायमेट चेंज (जलवायु परिवर्तन) दुष्परिणाम को इस कार्य द्वारा निर्मित हरित क्षेत्र से उत्तर दिया जा सकता है।

वसंतराव नाईक जलसंधारण पुरस्कार - २०१८
सद्भावना ग्रामीण विकास संस्था, वर्धा.

श्री. मिलींद तुकारामजी भगत

स्वयंम, ३ स्वामी समर्थ नगरी, मुरारका ले आऊट, न्यू आर्ट्स अँड कॉमर्स
कॉलेजजवळ, बॅचलर रोड, वर्धा, जिल्हा - वर्धा ४४२००१
मोबाईल ९८५०३५३८७

सद्भावना ग्रामीण विकास संस्था कृषि व जलसंधारण क्षेत्रात
गेल्या २० वर्षांपासून कार्यरत आहे.

ह्या संस्थेने एकात्मिक पाणलोट व्यवस्थापन कार्यक्रम
(IWMP) अंतर्गत वर्धा जिल्ह्यात पथदर्शक काम चालविले आहे.
जे.एन. पी.टी. ह्या सरकारी कंपनीच्या सहयोगाने जलयुक्त शिवार,
सुक्ष्म पाणलोट विकास तसेच मौजा ते सारोडा व महाकाळ ते
धामनदी असे दोन प्रकल्प यशस्वीपणे राबवले आहेत.

जलयुक्त शिवार अभियान उपजीविका प्रकल्पाद्वारे महिला
बचत गटाना प्रशिक्षणाच्या माध्यमातून रोजगार निर्मिती करून
कापूस ते वस्त्रनिर्मितीचा प्रकल्प वर्धा तालुक्यातील सारोडे येथे या
संस्थेने राबवला आहे.

जलसंधारण प्रकल्प यशस्वीपणाने राबवून त्यांतून ग्रामीण
महिलांसाठी शाश्वत रोजगार निर्मिती कशी करता येते हे सद्भावना
ग्रामीण संस्थेने दाखवून दिले आहे. ह्याबद्दल ही संस्था निश्चितच
कौतुकास पात्र आहे.





कृषिदिन स्मरणािका
वसंतराव नाईक यांच्या
१०५ व्या जन्मदिना निमित्त



वसंतराव नाईक कृषि पुरस्कार
वितरण समारंभ

रविवार दि. १ जुलै २०१८

वसंतराव नाईक कृषि संशोधन व
ग्रामीण विकास प्रतिष्ठान



BIO-DATA

Subject : Rain Water Conservation & Ground Water Recharge



WATER IS LIFE

Rain Water is the only source
Save it – it will save us.



Name	:	Madhao Govind Kotasthane
Qualification	:	D.C.R.E. (Diploma in Civil Rural Engineering-1983)
Date of Birth	:	27 December 1962
Address	:	Plot No. 4 Pratap Nagar, Behind old R.T.O. Office, Wardha - 442001 State - Maharashtra – INDIA
Email	:	mkotasthanem@gmail.com
Website	:	www.waterislife.org.in (Purti Sinchan)
Mobile	:	09765426117, 09422142781
Landline	:	07152 – 240477, 250687
Documentary	:	You Tube click – Purti Sinchan – Tamaswada
Experience	:	20 Years
Concept	:	Water Is Life

: AWARD :

- **Award 2015** : Water Conservation Sector by Vasantao Naik Krishi Sanshodhan Pratishan, Mumbai
- **Award 2016** : Jalsanwardhak Puskar Agnihotri Group of Institutions
- **Award 2017** : Water Conservation O + Ve Foundation.

: Expert Position :

1. **IWMP- Gov. of India** : Expert Member : Steering Committee, Integrated Watershed Management Govt. of India Year 2016-2018
2. **Jalanayak YASHADA PUNE** : State Level Jalanayak – Maharashtra – 2016
YASHADA PUNE Water Literacy Centre - Pune
3. **Jalyukta Shiwar** : Expert Member, Jalyukta Shiwar
Abhiyan Committee Wardha Maharashtra.
Year 2015-2018
4. **Project Engineer & Co-Ordinator** : 1) Tamaswada Nala (TP) Project of
Water Conservation. (2011-13)
2) JNPT CSR Work 2 Projects Tal. Wardha Dist. Wardha
5. **Presentation** : 1) Bhujal Manthan – Nagpur. Year Feb. 2018 Conducted
by Central Ground Water Board (CGWB) Delhi.
2) Federation of Indian Chamber of Commerce
& Industries (FICCI) Delhi on the Occasion
of world Water Day Year April 2018
3) Agro Vision – National Level Workshop Nagpur Year 2012 - 2017
4) Jan Abhiyan – Madhya Pradesh- Year – March 2015
Ratlam Distt. Ratlam (M.P.)

: Concept Water is Life : Work & Experience

1. Secretary : Purni Sinchan Sammrudhi Kalyankari Sanstha (NGO) Since Year 2000
2. Article for awareness about Water Conservation Published in several News Papers, Daily, Weekly. Since Year 2005.
3. Active Participation in various work shop, seminar conducted, Regarding Water Conservation. (Short report is available)
4. To prepare or suggest proposal for Rain Water Harvesting & Conservation project, to choose proper locations, to mark it on Toposheets. To give information about proper treatment.
5. To establish or to help and guide to establish Rain Water Harvesting & Conservation projects at various locations wherever possible.
6. Project planner Engineer : Tamaswada Nala Rain Water Harvesting, Conservation & Recharging project. Village Tamaswada Tal. Selu Dist. – Wardha (Maharashtra) India.
7. Project planner & Help :- Drainage line treatment work for Rain Water Harvesting & Conservation project 1. Work done at Mukni, Digras, Rajani area Tal. Katol. Narkhed Dist. Nagpur. Headed by Centre For Rural Welfare (NGO) Nagpur. 2. JNPT CSR Micro watershed WRWBD ---- Satoda Mahakal Tal. Dist. Wardha State Maharashtra, India – with Sadbhavana Gramin Vikas Sanstha, Wardha 3. JNPT CSR Micro watershed – Dhanora, Bhankheda, Pujai --- Tal. Dist. Wardha State Maharashtra INDIA – with Sadbhavana Gramin Vikas Sanstha, Wardha
8. (Video Documentary Preparation) Power point presentation for awareness and preparation of sleep of memorandum and books. Of various type. (Work Book preparation).
9. To give suggestion to Govt. officers and Officials about solutions over problem regarding Water Conservation & Irrigation. (Many Letters, Submissions, Articles).
10. To study success stories established by other Hon. Activist in Water Conservation Sector. To spread information about their method & type of treatment. (Some story collection).
11. To conduct camp on site. Visit demonstration about Ridge to valley water conservation work of Tamaswada Nala Project. Live training to activists, NGO members, Students and Farmers.

: Work Books Preparation: For Work done :

Included – Theme, Survey, Preparation of Proposal, Execution, various Maps, Geology, Topography, Watershed, Civil Engineering, Actual work done, Rain Water Storages, surface & Ground Water Storage, Impact, Publicity, etc.

Book - 1. Tamaswada (TP) Nala Project Year 2010-2018

2. Ridge to Valley.

3. Zone wise Dev. of watershed Eng. Hindi – Marathi

4. River Rejuvenation Micro watershed Dev.

5. C.S.R. Fund JNPT Project Micro watershed.

6. Work done For :

- Success stories collection • Water Conservation • Awareness Articles in News Papers.
- Presentation for W.C • Framing proposals of Micro watershed Dev.

7. Suggestion/Notes For : 1) Rejuvenation of Dam 2) River Rejuvenation 3) IWMP Gov. of India

4) Jalyukta Shiwar Yojana 5) Bhujal Manthan (CGWB)

6) Irrigation Potential 7) Water Literacy Centre Pune (M.S.).

8) Framing Proposals for micro watersheds 9) Water Budgeting

10) Other Subjects Regarding Water Conservation/Plantation.

IMPACT ANALYSIS CHART (Year - 2017)

Impact of TP Treatment in Development of the Village			
Item	Before	After	%
No. of wells with Pump set	10	27	170 %
Kharif	190 ha.	305 ha.	150 %
Rabi	0 ha.	15 ha.	
Perennial Crops			
Sugar Cane	4 ha.	16 ha.	400 %
Ground nuts & Vegetables	0 ha.	16 ha.	
Horticulture	Almost Nil	6 ha.	
Area not Available due to flood During Monsoon	24 ha.	0	Increase in additional Agriculture land
No. of Milking Animals	70	190	270 %
Milk Production	180 Lits	550 Lits	300 %
Goats	60	300	Producing > 2000 Kg of Mutton / year
Tractor	1	4	
Per family Net Av. Income / Month (Rs.)	4,906/-	17,217/-	350%

Animal dugn increase to 600 tons/year due to increase in animals, led to reduction in use of chemical fertilizer resulted in Saving in capital cost of agriculture.

YEAR 2016- 2017

Impact of T.P. Treatment in Socio-Economic Development



Shravan Waghmare

Ample Water for all purposes, Improved Cropping Pattern, Cattle Farming, Vegetable, Growing Ultimately Improved Rural Economy and Increased Income 2 to 3 time more of Farmers.

Tamaswada Pattern (TP) Treatments

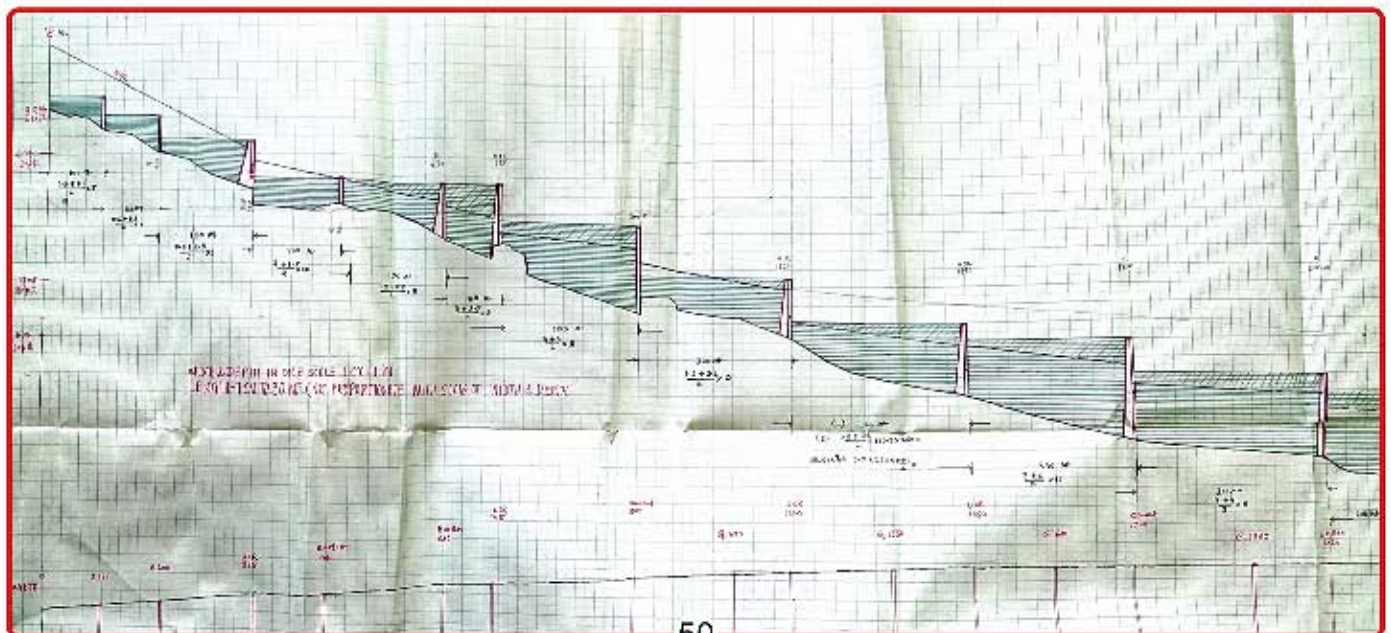
Repair, widening and deepening of CNB	6
Repair, widening and deepening of Storage bandhara	3
Repair, widening and deepening of UCR Plugs	6

Construction of New Structure

Gabion Structure	5
Storage Bandhara	5
U.C.R. Bandhara (Purti)	1

Tamaswada Pattern (TP) Treatment and Recharge

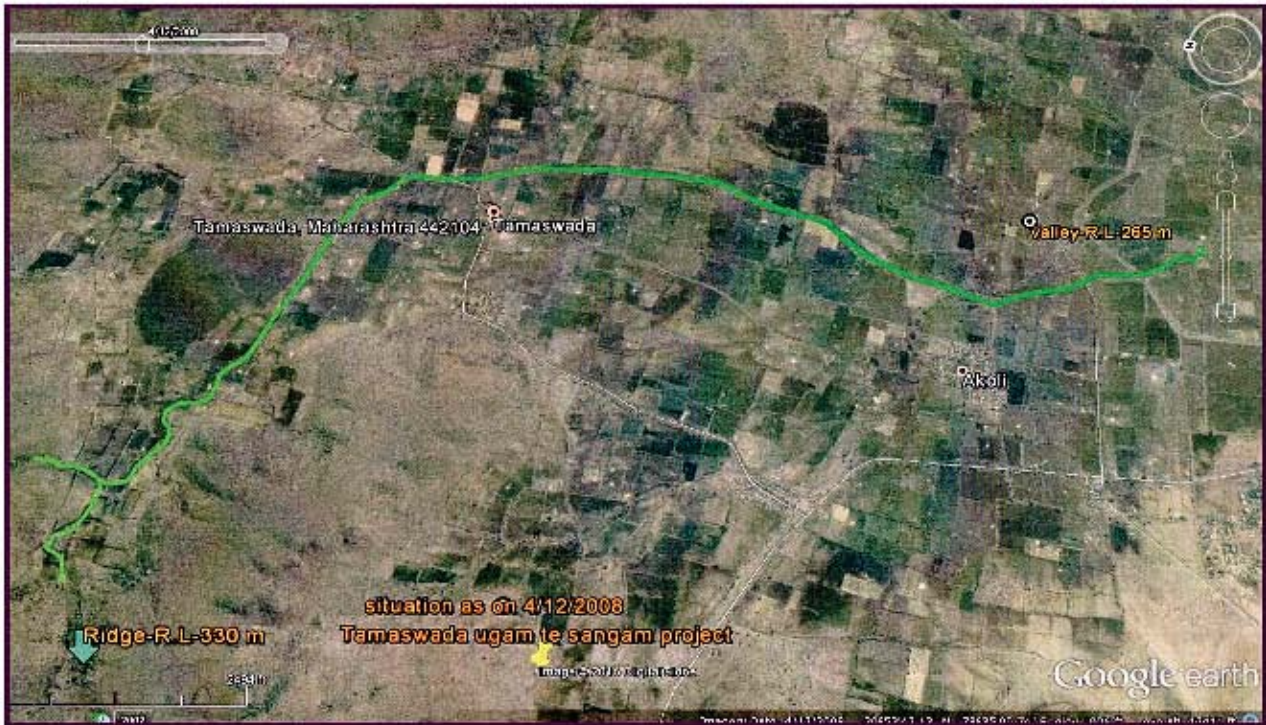
Total Treatment work	3.5 Line Km
Total Storage Created	1,05,000 M3
Av. Repetitive filling	3
Total Storage Created	3,15,000 M3
Av. Recharge Efficiency	75 %
Actual Recharge through TP Treatment	2,36,250M3



GOOGLE IMAGE

BEFORE

Date : 12/04/2008



Very less area under crops (Before Work)

AFTER

Date : 16/11/2015



Improved Cropping Area and Pattern After Work Done

GOOGLE IMAGE

BEFORE WORK

Date : 19/05/2002



Nala Bed not Visible and with Zero Storage Capacity

AFTER WORK

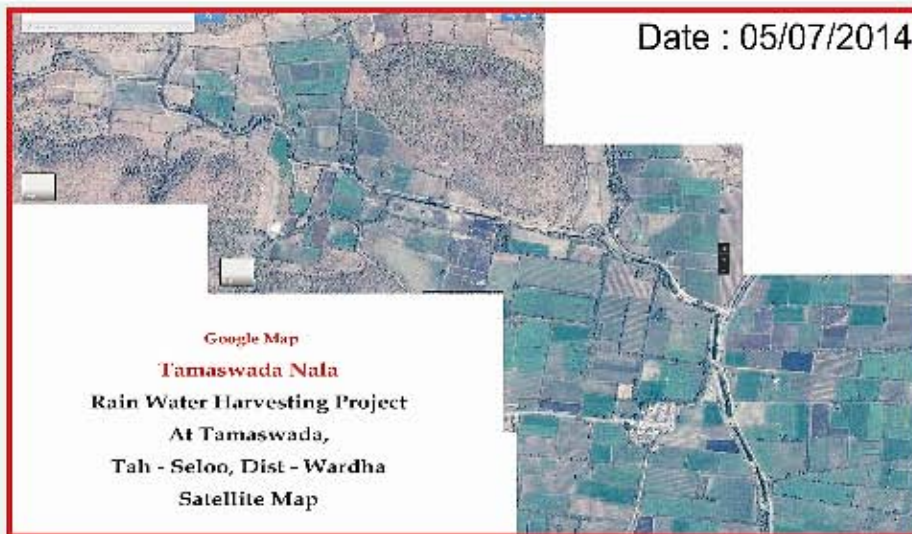
Date : 05/02/2014



Nala is now Visible and Full of Rain Water Storage due to Work done

GOOGLE IMAGE

TAMASWADA NALA RAIN WATER HARVING AND RECHARGING PROJECT (RIDGE TO VALLEY) (AT TAMASWADA, TAH. SELOO, DIST : WARDHA : MAHARASHTRA)



GOOGLE MAP SHOWING RAIN WATER HARVING PROJECT AT TAMASWADA NALA

BEFORE : Contracted, shallow & Silted Nala Bed No Rain Water Storage Crops



BEFORE - POOR RAIN WATER STORAGE CAPACITY

AFTER : wide deep nala bed with big water storage and improved cropping situation can be seen clearly



WORK BOOK : (TP) Nala Treatment



WATER SUPPLY SECURITY THROUGH

Rejuvenation of River Through Micro Watershed Development

Tamaswada Pattern (T.P.) Nalla Treatment

RIDGE TO VALLEY

(Tamaswada Forest Hill) Year - 2010 to 2017 (Dham River)

About 12 KM (6 Villages)

Village - Tamaswada Tah. Selu Dist. Wardha
State - Maharashtra- INDIA

पावसाच्या पाण्याचे संवर्धन साठवण व पुनर्भरण



मा. नं. श्री. नितिन गडकरी

CONCEPT :- WATER IS LIFE

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RAIN WATER IS THE ONLY SOURCE, SAVE IT, IT WILL SAVE US



II TEAM WATER IS LIFE II



INSPIRATION



Hon. Nitinji Gadkari

GUIDE



Hon. P. R. Mundle



Coordinator



Prafuldatta Jamdar
MO : 09922926771

Project Engineer



Madhao Kotasthane
Mo : 09765426117
Civil Engineer

GUIDE



Ravindra Kali
Mo : 09422816131
Geologist

GUIDE



Dnyaneshwar Channe
Mo : 9423105174
Geologist

GUIDE



Shirish Kulkarni
Mo : 09422106908
Geologist

GUIDE



Rajendra Deshkar
Mo : 08975756847
Geologist

GUIDE



Nitin Mahajan
Mo : 09850343806
Geologist

NGO



Milind Bhagat
Mo : 09850352387



Vijay Ghatole
Mo : 09373084040



Satyajeet Jambhulkar
Mo : 08554011155



Pranav Joshi
Mo : 09730760699



Vikas Totde
Mo : 09823063374





OFFICE

PURTI SINCHAN SAMRUDDHI KALYANKARI SANSTHA (NGO)

**Add :- Plot No, 4 Pratap Nagar, Wardha
Dist. Wardha Pin -442001, State - Maharashtra**

pvjamdar@gmail.com Website : www.waterislife.org.in

Email: mkotasthanem@gmail.com

**TAMASWADA NALA RAIN WATER HARVESTING AND RECHARGING PROJECT (RIDGE TO VALLEY)
(AT TAMASWADA, TAH. SELOO, DIST. WARDHA - MAHARASHTRA)**

पावसाच्या पाण्याचे संवर्धन साठवण व पुनर्भरण



मा. ना. श्री. नितीन गडकरी

**"RAIN WATER STORAGE AT RIDGE PORTION OF NALA"
Previously it was used to be dry in October
"PURTI UCR BANDHARA"**





CONCEPT : II WATER IS LIFE II

RAIN WATER HARVESTING, CONSERVATION,
STORAGE & GROUND WATER RECHARGE PROJECT

BASED ON : MICRO WATERSHED DEVELOPMENT

Inspiration



Hon'ble Shri. Nitinji Gadkari

SHIPPING MINISTRY GOVT. OF INDIA - NEW DELHI

C.S.R. FUND FROM JAWAHARLAL NEHRU PORT TRUST (J.N.P.T.) MUMBAI

UNDER JALYUKTA SHIVAR ABHIYAN - WARDHA DISTRICT (M.S.)

MICRO WATERSHED VILLAGE - SATODA - MAHAKAL - DHAMRIVER (VALLEY)

TAL., WARDHA DIST. WARDHA (M.S.)

GUIDE & HELPED BY

Hon Chairman - Jawaharlal Nehru Port Trust (J.N.P.T.) Mumbai

Hon. Commissioner - Nagpur Division (Maharashtra)

Hon. Collector, Wardha, Hon. Superintending Agriculture Officer, Wardha.

WORK STARTED ON 20 MAY 2017



Drone Photo Dt: 2 Sep. 2017

CONCEPT : MADHAO G. KOTASTHANE, CIVIL ENGINEER

Mob. : 09765426117, 09422142781

Work done by : Milind Bhagat, President

SADBHAVANA GRAMIN VIKAS SANSTHAN, WARDHA

Mob. : 09850352387



Project :- Micro Watershed Development :

Satoda-Mahakal To Dham River Tah Wardha- Distt. Wardha State Maharashtra-India

: Based on :

TAMASWADA PATTERN (TP) NALLA TREATMENT

C.S.R. of Jawaharlal Nehru Port Trust, Mumbai

: Year 2017:



Position Before Work - April 2017



Treatment Work - May 2017



Drone Photo, Storage - 2 September 2017



Rain Water Storage - 7 July 2017



Recharge Well - Mahakal



Plantation - 1 July To 7 July 2017

:Work done by:



SADBHAVANA GRAMIN VIKAS SANSTHA (NGO)



CONTACT : MILIND BHAGAT

Sane Guruji Nagar, Bachelor Road, Near

Address : Sai Mandir, Arvi Naka, Wardha-442001 (M.S.) India

E-mail : sadbhavanagvs@yahoo.co.in, milindbhagat17@gmail.com

Mob. : 9850352387



CONCEPT : MADHAO GOVIND KOTASTHANE, (CIVIL ENGINEER)

Address: Plot No. 4, Pratap Nagar Wardha-442001 (M.S.) India

e-mail : mkotasthanem@gmail.com

Mob. : 09765426117, 09422142781, 07152-240477

WATER IS LIFE. Rain Water is the only source. Save it, it will save us.

TAMASWADA PATTERN (TP) NALLA TREATMENT



Base Map : Village Map of Tamaswada With Marking of Exist Structure & Drainage Line

-: ADOPT : 5 'R' METHOD :-

- 1st 'R' - REVIEW (SURVEY)
- 2nd 'R' - REPAIR (STRUCTURE & METHOD)
- 3rd 'R' - REJUVENATION
- 4th 'R' - RECHARGE (GROUND WATER)
- 5th 'R' - RESULT (ANALYSIS)
(IMPACT ANALYSIS, SOCIO ECONOMIC SURVEY)

EFFECTIVE RUN OFF RAIN WATER MANAGEMENT (ACCORDING TO '3' ZONE)

: DIRECTION :

ESSENTIALLY "RIDGE TO VALLEY"

: PRIORITY :

RIDGE AREA DEVELOPMENT & MAXIMUM POSSIBLE PLANTATION

FOLLOW SEQUENCE FOR DEVELOPMENT / REJUVENATION.

MICRO - MINI - MEGA WATERSHED - MINOR RIVER - MAJOR RIVER

: SALIENT FEATURES :



**NO LAND ACQUISITION
NO COMPENSATION
NO REHABILITATION
NO DISPLACEMENT
NO MIGRATION
NO FLOOD &
AMPLE GROUND WATER.**



■ **WATER OF VILLAGE FOR VILLAGE & VILLAGERS. FOR All & ALL PURPOSE**

• APPEAL •

" We know colonies & villages are established on the bank of River, Major River, Nalla, Drains, village Tanks due to availability of Water for all purpose. Today shortage of water is a serious problem. But there is a way as every colony or villages has some type of Natural water source and each water source has it is own catchment area to collect Rain Water. This catchment area is nothing but the micro and mini watersheds. Therefore it is necessary to develop these all micro watersheds and establish Rain Water Harvesting, Conservation and Ground Water Recharge project at various locations as many as possible. Let us start work today for ample availability of water in FUTURE."

SUGGESTIONS AND MODIFICATIONS ARE WELL COME.

CONTACT :



P. V. JAMDAR,
PRESIDENT (NGO)
e-mail: pvjanddar@gmail.com
Mob. : 09922926771



MADHAO GOVIND KOTASTHANE,
CIVIL ENGINEER
Plot No. 4, Pratap Nagar Wardha-442001
(M.S.) India
e-mail : mkotasthanem@gmail.com
Mob.: 09765426117, 09422142781



RAVINDRA KALI, GEOLOGIST
e-mail : rdkali2004@gmail.com
Mob. : 09422816131



SATYAJEET JAMBHULKAR
e-mail : s.jambhulkar88@gmail.com
Mob : 8554011155, 9766462227



Best Wishes to Agro Vision 2017, Nagpur

Hon. Shri Ramdasji Tadas
Member of Parliament, Lok Sabha, Wardha

Printed on Oct. 10, Nov 2017
Publish by: Mital Graphics, Wardha

CONCEPT : II WATER IS LIFE II
RAIN WATER HARVESTING, CONSERVATION,
STORAGE & GROUND WATER RECHARGE PROJECT
BASED ON : MICRO WATERSHED DEVELOPMENT

TAMASWADA PATTERN

Inspiration



Hon'ble Shri. Nitinji Gadkari

SHIPPING MINISTRY GOVT. OF INDIA - NEW DELHI
C.S.R. FUND FROM JAWAHARLAL NEHRU PORT TRUST (J.N.P.T.) MUMBAI
UNDER JALYUKTA SHIVAR ABHIYAN - WARDHA DISTRICT (M.S.)
MICRO WATERSHED VILLAGE - SATODA - MAHAKAL - DHAMRIVER (VALLEY)
TAL., WARDHA DIST. WARDHA (M.S.)

GUIDE & HELPED BY

Hon Chairman - Jawaharlal Nehru Port Trust (J.N.P.T.) Mumbai
Hon. Commissioner - Nagpur Division (Maharashtra)
Hon. Collector, Wardha, Hon. Superintending Agriculture Officer, Wardha.

WORK STARTED ON 2 MAY 2018



CONCEPT : MADHAO G. KOTASTHANE, CIVIL ENGINEER

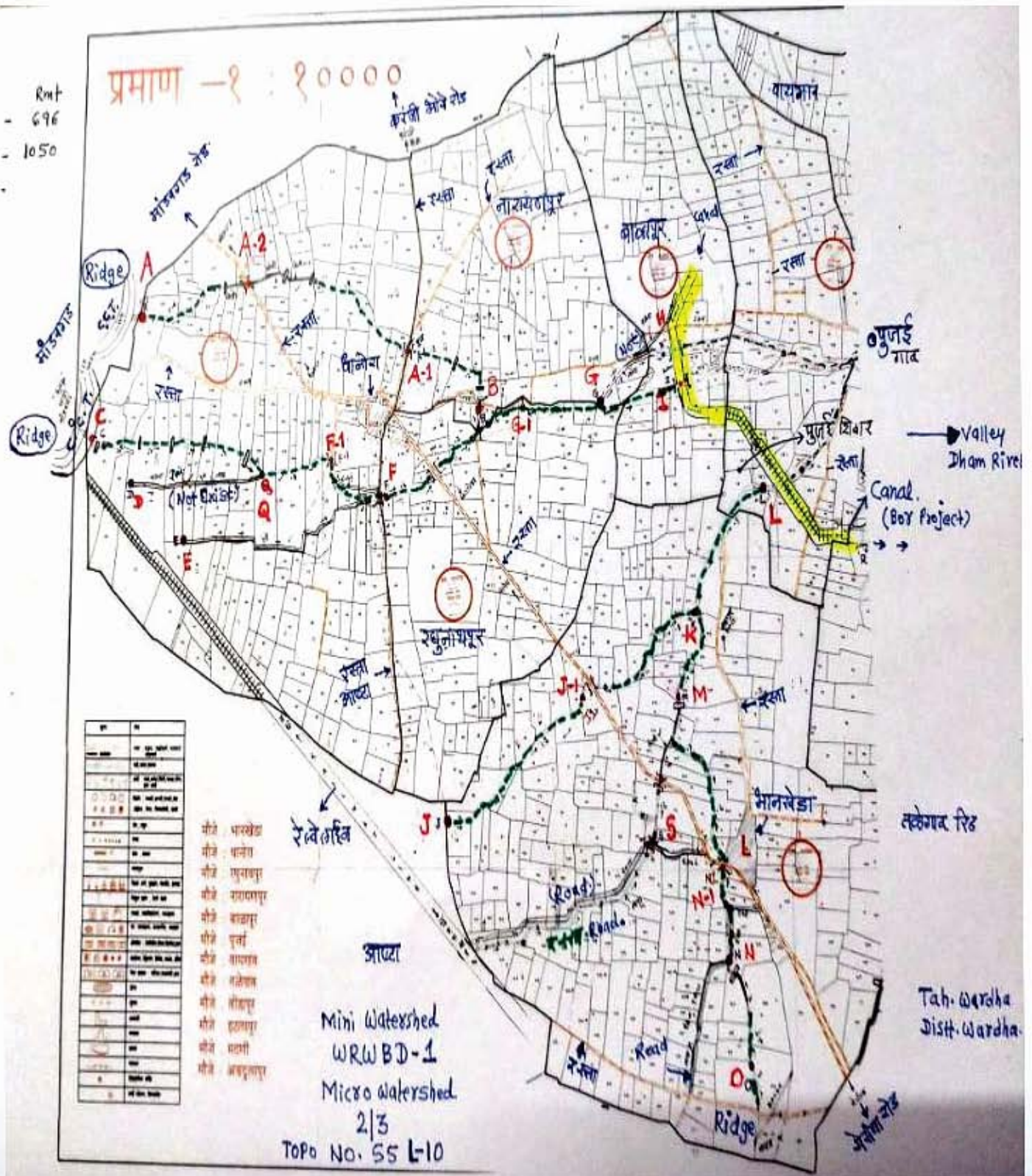
Mob. : 09765426117, 09422142781



Work done by : Milind Bhagat, President
SADBHAVANA GRAMIN VIKAS SANSTHAN, WARDHA

Mob. : 09850352387

Replication of Tamaswada Pattern (TP) Nala Treatment



Mega Watershed - WRWBD - 1

Mini Watershed - 2/3

Topo Sheet No. 55 L-10



Water is Life

Water Is life

**Field Work - Seminar - Workshop
For
Rain Water Harvesting,
Conservation
And
Ground Water Recharge**



**Madhao Govind Kotasthane
Civil Engineer**

Plot No. 4, Pratap Nagar,
Wardha- 442 001

Maharashtra - India

Web : Waterislife.org.in

Email : mkotasthanem@gmail.com

Mob : 09765426117, 09422142781

Phone : 07152 - 240477



भूजल मंथन-3

16 - 17 फरवरी 2018, नागपुर

विस्तृत कार्यक्रम रिपोर्ट

"भावी पीढ़ी को पुकार, नागपुर भूजल मंथन हो साकार"

श्री नितिन गडकरी

माननीय केन्द्रीय मंत्री, भारत सरकार
और अन्य सन्माननीय केन्द्रीय एवं
राज्य मंत्रियों की प्रमुख उपस्थिति में
उद्घाटन

राष्ट्रीय स्तर का कार्यक्रम :
विभिन्न राज्यों के 2400 से अधिक
हितधारकों की सहभागिता

ब्रिज कम बंधारा, तामसवाडा पैलेस नाला ट्रैक्टमेंट, जल युक्त शिवार

जल संरक्षण पर अग्रणी एवं नई संकल्पना/अवधारणा

जन सहभागिता - जल प्रबंधन की यशगाथाओं पर विशेषज्ञों द्वारा प्रस्तुति

सहभागियों/हितधारकों एवं विशेषज्ञों के मध्य प्रत्यक्ष विचार विमर्श

भूजल प्रबंधन संबंधी विशेषज्ञ विभागों द्वारा व्याख्यात्मक प्रदर्शनी



सत्यमेव जयते

भारत सरकार
जल संसाधन, नदी विकास और गंगा संरक्षण मंत्रालय
केन्द्रीय भूमि जल बोर्ड



8. भूजल मंथन- 3 के प्रतिभागी

जन सहभाग द्वारा जल संसाधन के क्षेत्र में बेहतर विकास एवं प्रबंधन के लिए कार्यनीतियाँ विकसित करने हेतु, विभिन्न प्रतिनिधियों के बीच व्यापक विचार विमर्श को केन्द्र बिन्दु मानकर भूजल मंथन -3 में राज्य सरकारों के वरिष्ठ अधिकारी, जल क्षेत्र के विशेषज्ञों, गैर सरकारी संगठनों के प्रतिनिधियों, कॉर्पोरेट जगत, पानी उपयोगकर्ता संघटनों एवं विभिन्न संस्थाओं के सदस्यों ने भाग लिया। भूजल मंथन के दौरान विभिन्न मुद्दों एवं समस्याओं पर चर्चा की गयी जिनके परिणामस्वरूप नए नए दृष्टिकोण सामने आए और जिससे जन सहभागिता के दृष्टिकोण को बल प्राप्त हुआ।



9. व्याख्यानमाला

व्याख्यानों द्वारा अपना ज्ञानवर्धन किए जाने हेतु देश के विभिन्न भागों विशेषतः पानी की कमी वाले 14 राज्यों में से लगभग 2400 प्रतिनिधियों ने हिस्सा लिया जिसमें सरपंच, पंचायत समिती के सदस्यों व अन्य स्वयंसेवी संस्थाओं का भी समावेश है। भूजल मंथन -3 में आयोजित तीन तकनीकी सत्रों के दौरान विशेषज्ञों द्वारा विभिन्न विषयों पर प्रस्तुतीकरण किये गये।

भूजल संवर्धन एवं पुनर्भरण हेतु तामसवाडा नाला पैटर्न

श्री माधवराव कोटस्थाने, पूर्ति सिंचन समृद्धी कल्याणकारी संस्था



बारिश का पानी जल का एकमात्र प्राकृतिक स्रोत है। इसीलिए पानी बचाने के साथ साथ भूजल का संवर्धन करना भी आज की आवश्यकता है। तामसवाडा पैटर्न की वजह से यह विचार प्रत्यक्ष साकार हुआ है। बारिश के पानी का संवर्धन, संचयन एवं संरक्षण के प्रभावी कार्यों की वजह से ही नागपुर एवं वर्धा जिलों के बड़े क्षेत्र का कायापलट हुआ है। इस प्रकल्प की देशभर में चर्चा है। तामसवाडा, यह एक सूखाग्रस्त पहाडी क्षेत्र है। यहाँ बारिश के पानी को रोकने एवं संचयन की सुविधायें रखरखाव के अभाव में मृतप्राय थीं। मगर सन् 2012 में इस क्षेत्र में पूर्ति सिंचन संस्था द्वारा प्रभावी योजनाएँ आरंभ की गयीं। मौजूदा पुनर्भरण संरचनाओं की मरम्मत की गयी, मिट्टी से भरे हुये नालों को गहरा एवं चौड़ा किया गया, पाँच अतिरिक्त चेक डैम, पाँच गेबियन बंधारों का निर्माण किया गया। इस कार्य को भारी जनसहयोग मिला। जिसके कारण वर्धा के तामसवाडा, आकोली, जामनी क्षीरसमुद्र, बाभुलगा और नागपुर जिले के राजनी, गोंडि (दिगरस), मुकनी-अंबोला, खामली से लांड्गी नदी तक का एक बड़ा क्षेत्र सिंचाई के लाभक्षेत्र में लाया जा सका। जिससे क्षेत्र की कृषि उत्पादकता में अभूतपूर्व वृद्धि दर्ज की गयी। यह परिवर्तनरूपी यश “तामसवाडा पैटर्न” के नाम से अधोरेखांकित किया गया है, जो प्रेरणादायी है।

इस प्रकल्प के कारण क्षेत्र में 23 करोड लीटर जल संचयन की क्षमता बढ़ी व किसान खरीफ एवं रबी फसलों के साथ गर्मी के मौसम में भी फसल लेने में सक्षम हो गए हैं। 190 हेक्टर वाला खरीफ क्षेत्र अब 305 हेक्टर तक बढ़ गया एवं रबी का क्षेत्र शून्य से 16 हेक्टर तक पहुँच गया है। गन्ने की पैदावार 4 से 16 हेक्टर तक, सब्जी शून्य से 16 हेक्टर तक एवं फलों की खेती शून्य से 16 हेक्टर तक पहुँच गयी है। यहाँ जानवरों की संख्या बढ़ जाने की वजह से दूध का उत्पादन 180 लीटर से 550 लीटर तक बढ़ गया है। अंततः इस प्रकल्प की उपलब्धि यह है कि यहाँ के परिवारों का मासिक आय रु. 4900 से बढ़कर 17217 तक पहुँच गयी है। उनका यह प्रयास गाँव के आर्थिक विकास में भी सहायक सिद्ध हुआ है।

: SITE VISIT :
CENTRE FOR RURAL WELFAIR NGO, NAGPUR
VISIT TO TAMASWADA WATER CONSERVATION PROJECT
DATE : 09/01/2014



: SITE VISIT :
CENTRE FOR RURAL WELFARE NGO, NAGPUR
VISIT TO TAMASWADA WATER CONSERVATION PROJECT
DATE : 028/05/2014



**AWARD YEAR 2015 -
By the hands of Hon. Chief Minister, Maharashtra**



Dam Rejuvenation site visit with Hon. Col. Sureshji Patil, GreenThumb, Pune



Kahdakwasla Dam Rejuvenation site visit with Hon. Shri. Nitinji Gadkari



Workshop Presentation

Date : 05/05/2013



Agro Vision - Nagpur - Visit to Stall by NGO. 13/12/2015



Hon. Shri. Anilji Kakodkar Known Atomic Scientist of India



Group - Water is Life At Agro Vision, Nagpur

SITE VISIT - TAMASWADA NALA (TP)

21/10/2015



Visit - Tamaswada Nala Water Conservation Project
At. Tamaswada Th. Selu Dist. Wardha
Hon. Shri - Dr. V. K. Saraswat
Member of NITI AYOOG New Delhi
Date - 21 - 10 - 2015

Hon. Shri. Dr. V. K. Saraswat, Member of NITI AYOOG, New Delhi



Visit - Tamaswada Nala Water Conservation Project
At. Tamaswada Th. Selu Dist. Wardha
Hon. Shri - Dr. V. K. Saraswat
Member of NITI AYOOG New Delhi
Date - 21 - 10 - 2015

Workshop - Presentation (TP)

Date: 30/01/2016



Hon. Shri. Sudhirji Mungantiwar, Minister- Forest & Finance, Maharashtra Visited Stall by Purti (NGO), 30/01/2016 - Sawangi Meghe Campus, Wardha





**Hon. Shri. Poptraoji Pawar
Visited NGO office 11/09/2016 Wardha**



**Visit of Hon. Shrimati Uma Bhartiji- khadakwasla Dam Rejuvenation Project by Green Thumb, Pune (Minister- Water Resources Gov. of India)
Date : 04/10/2016**

: Agro Vision Nagpur : Water Conservation Workshop - 2017 at Nagpur

Address by : Hon. Nitinji Gadkari, Minister Water Resources Gov. of India



Agro Vision 2017 Nagpur. Presentation (TP) Tamaswada Pattern



पूती सिंचन संस्था

Bj, Drda.bhalerao., Gsd, Gsd, Gsd, Gsd.kali.saheb, ...



11/10/2017

10:47 ✓

Today's meeting and discussion with presentation done on model project of micro watershed in Tamaswada Nala in Front of Hon. Joint Secretary ,ministry of Water Resources of River Development and Ganga Regunvetion, at sramshakti Bhavn New Delhi presented by Shri Madhavji kotsthane

11:02 ✓



11:02 ✓



Type a message



Visit to JNPT Project Based On (TP) Treatment by Group of Geologist At Mahakal, Dist. Wardha



Visited by Team of Geologist Date : 18 August 2017





**Water Conservation Award - Year 2016 By the Hands of
Hon. Sanchetiji (MP.) Rajyasabha & Pandit Shankarprasadji Agnihotri
President Mahakaji Group of Institution Wardha
Date : 14/10/2016**





Hon. Nitinji Gadkari Visited by Purti Sinchan Stall at Nagpur



Hon. Mahadeoji Jankar Visited by Purti Sinchan Stall at Nagpur



**With Hon. Shri. Ram Shinde, Minister Water Conservation, Maharashtra
&
Hon Popatrao Pawar - Adarsh Gram Presenting TP Workbook At Wardha**



Visit & Programme for Pawana River Rejuvenation

Date : 02/10/2016

नाम फाउंडेशन व कनेक्टिंग एन.जी.ओ.ज प्रस्तुत
पावन पवना अभियान
 " पवना माई माझी माता, मी तीचा रक्षणकर्ता "

पवना नदी उगम गोमुख लोकार्पण सोहळा
संकल्पना : डॉ. श्रीकांत इंगळहाळीकर
 अश्विन शुद्ध प्रतिपदा शके १९३८ रविवार दिनांक २ ऑक्टोबर २०१६

सन्माननीय उपस्थिती : श्री. मकरंद अनासपुरे, अधिनेता व विश्वस्त नाम फाउंडेशन
मान्यवर

श्री. राहुल सोलापुरकर (नाम फाउंडेशन)	श्री. आर. आर. देशपांडे (किलॉस्कर ग्रुप)	श्री. माधव कोटस्थाने (WIP राष्ट्रीय विकास मंत्रालय बाल सहायक)
श्री. हेमंत वाटवे (विलो मॅथर प्लॅंट)	श्री. मनोज फुटाणे (कला ग्रुप)	श्री. अनिल मोहिते पाणीदार माणुशा पुरस्कार विजेता
श्री. राजेंद्र कपोले (पाटबंधारे)	डॉ. विश्वास येवले (बलडिडी)	श्री. लक्ष्मीकांत देशमुख (आळंदी विश्वस्त)
श्री. अमित गोरखे	श्री. सुकनशेठ बाफना	श्री. रवी सावंत



AGRO VISION WATER CONSERVATION EXHIBITION Year - 2016



**Visited by Farmers Purti Sinchan NGO Stall Nagpur
Date : 11 to 14 Nov 2016**





पूती सिंचन संस्था

Bj, Drda.bhalerao., Gsd, Gsd, Gsd, Gsd.kali.saheb, ...



MARCH 16, 2018

Tamaswada Nalla Treatment || Purti Sinchan Samruddhi Kalyankari Santha (NGO)

Witness how collective efforts can change the liv...
www.youtube.com

<https://youtu.be/wGYhm-IBg00>

12:09 ✓✓



19:52 ✓✓

You

<https://youtu.be/wGYhm-IBg00>

Tamaswada Nalla Treatment || Purti Sinchan Samruddhi Kalyankari Santha (NGO)

Witness how collective efforts can change the liv...
www.youtube.com

<https://youtu.be/wGYhm-IBg00>

20:00 ✓✓

Gsd kali. saheb



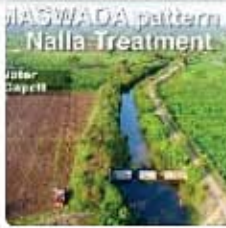
Type a message





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|| English || Tamaswada Pattern Nalla Treatment || Purti Sinchan Samruddhi Kalyankari Sanstha (NGO) www.youtube.com



<https://youtu.be/o6MN3qKCqp8>

19:25

Satyajit



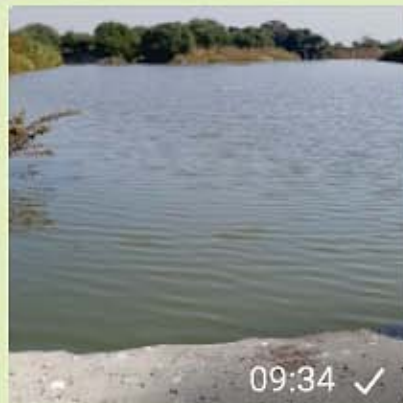
|| Marathi || Tamaswada Pattern Nalla Treatment || Purti Sinchan Samruddhi Kalyankari Sanstha (NGO) www.youtube.com



https://youtu.be/Tx6JPpx5_Es

19:25

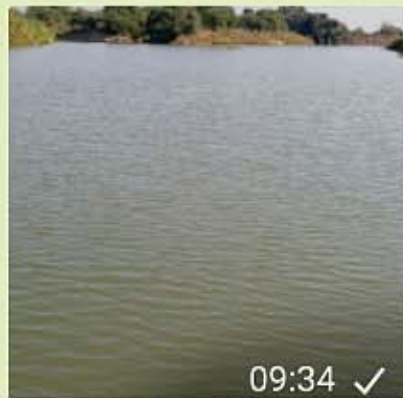
NOVEMBER 29, 2017



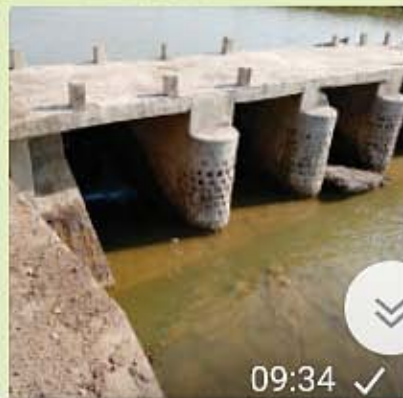
09:34 ✓



09:34 ✓



09:34 ✓



09:34 ✓



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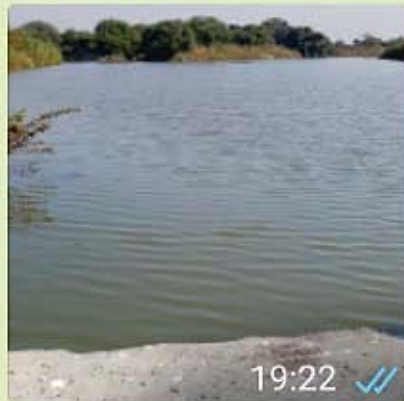
पूर्ती सिंचन संस्था 💧💧

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130TCM storage created by repairs, desilting, deepening of existing bandhara is just wonderful and awesome. The cost benefit ratio clearly indicates that by utilizing minimum expenditure huge quantity of water can be stored, which can atleast irrigate not less than 100 hectares of land in rabi season.. Bravo Madhavrao....Keep it up ... 👍👍🌸🌸👍



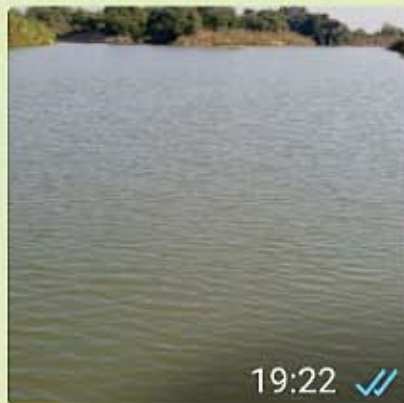
19:22 ✓✓



19:22 ✓✓



19:22 ✓✓



19:22 ✓✓



19:22 ✓✓

APRIL 11, 2018

Gsd kulkarni. saheb



Type a message



WORLD WATER DAY : 22/03/2018, NEW DELHI



Presentation of (TP) Treatment Project from World Water Day 22/03/2018
At India Habitate Center New Delhi - Organised by Hon Dhanuka Agro Group
& (FICCI)Federation of Indian Chambers of Commeres & Industries, New Delhi





पूती सिचन संस्था

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World water day workshop by FICCI at India Habitat Centre.NEW DELHI.22 march 2018.with Hon.R.G.Agarwal Hon.president of FICCI and Dhanuka Industries. Madhao Kotasthane and Milind Bhagat.for presentation over Water Conservation. 09:16 ✓✓





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DECEMBER 2, 2017

+91 94231 05174

~Dc



+91 94231 05174

~Dc



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Satyajit



जलसंधारण विभागाचे मुख्य सचिव- मा. श्री. एकनाथजी डवले साहेब यांनी आज दि. 07/07/2018 ला तामसवाडा जलसंधारण प्रकल्पाला भेट दिली सोबत मा. कोटस्थाने साहेब, सौ. मानकर मॅडम SAO वर्धा, जिल्हा परिषद EE श्री. गहलोत साहेब श्री. मोवाडे साहेब इ. उपस्थित होते....

15:32

Satyajit



15:32



15:32



Type a message



**Workshop (TP) Nala Treatment
At Yawatmal - Maharashtra
Date: 22/04/2018**





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www.facebook.com
https://m.facebook.com/story.php?story_fbid=2064737663539378&id=100000094943247

10:06

State level Vasantrya Naik Krishi pratisthan Mumbai Jalsandharan Award J2018 by the hands of Hon.Shri Sharad Pawar Saheb to Milind Bhagat president Sadbhavana NGO with Guid Shri Madhao Kotshtane Award ceremony at Yashwantrao. Chavan Sabhagruh Mumbai

19:15 ✓



19:15 ✓

Gsd deshkar. saheb



'जलयुक्त'मुळे घटल्या टँकरच्या खेपा

संदर्भ : ...



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www.agrowon.com



'जलयुक्त'मुळे घटल्या टँकरच्या खेपा
<http://www.agrowon.com/agrowon-news-marathi-tanker-trip-reduce-due-jalyukt-maharashtra-9874>

22:44

JULY 2, 2018

Ngo bhagat. milind

Thanks to all and credit to TEAM WATER IS LIFE Thanks again for support Madhao kotsthane and Milind Bhagat

11:32



11:33 ✓

Ngo bhagat. milind

Thanks to all and credit to TEAM WATER IS LIFE Thanks again for support Madhao kotsthane and Milind Bhagat Date 2nd July 2018

11:58



Type a message





💧💧 पूर्ती सिंचन संस्था 💧💧

Bj, Drda.bhalerao., Gsd, Gsd, Gsd, Gsd.kali.saheb, ...

Submission of progress report for water conservation work of Watershed WRWBD1,WREBD2 and WRWBD5 according to concept WATER IS LIFE Submission to Hon. Union Minister Shri Nitinji Gadkari . at Nagpur on 30th June 2018. Submitted by Madhao Kotsthane , Dattaji Jamdar Ravindraji Kali, Dr.P.K.Jain, Milind Bhagat , Rajendraji Deshkar,Nitinji Mahajan,Girish Kulkarni , Sujitji Gade 12:00 ✓



12:00 ✓



12:00 ✓



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Publication of Awareness Document for Agro Vision 2016 - Nagpur On the Occasion of Diwali Milan



Visit of Shri. Kaustubh Amte
Anandwan, Warora, Dist. Chandrapur (Maharashtra)

Date: 28-07-2016



Date: 26-07-2016





Office of Puri Sinchal Sammrudhi Karyakari Sanstha (NGO)



Office of Puri Sinchal Sammrudhi Karyakari Sanstha (NGO)



: Work For :

Water Supply Security Through Artificial Recharge.

II Rain Water is the only source II

II Save it - it will save us II

: For Strengthening :

Reserve Bank of most valuable Ground Water Storage

: Most Required For :

About 80 % Rain fed area out of total Available area

: Salient Features :

No Land Acquisition, No compensation, No Rehabilitation

No Displacement, No Migration.

: Ultimately :

Drought Free As well as Flood free situation

By preservation and conservation of Natural & Traditional Water Bodies

: Direction of Work :

RIDGE - TO - VALLEY

: Concept :

Complete Development of each & every Micro - Watershed

: Through :

Effective Run off Rain water Management

: According To :

Hydro - Geology - Topography - Geography & Civil Engineering

Ample Water At Ridge also and no flood towards - Valley



Ample Water due to Ground Water Recharge.
Recharged well at (Ridge) High Elevation
Location.



No Flood as excess Water goes to next
Compartment Gradually to fill Compartment
towards Valley portion.

“WATER”

Do not Maintain ego that I am the only worker. Be positive to observe and realize the work done by others. Mind well many others are performing in the are of conservation.

Think about what to do than what not to do.
Criticism is very easy but to present solution is very Difficult.

so

First priority to do field work up to Success / Result than to give Suggestions.

: Prefer :

Suggestions / Solutions than objections.

: Be:

Competent / Able than Successful

: Do not work for :

Money - Publicity but for self Satisfaction.

Regarding work to do or done.

: Avoid :

Resistance to successful work done by others

: Be :

Be positive-Get Positive - Give Positive

: All the Way :

We all are dedicated members of Team “Water is Life”

: To Perform :

Water for all- and for all purposes.

No need of appreciation, Qualification, financial capacity but need of dedication, strong will to do work in truly attitude, Honesty, Transparency and confidence while working for concept “ Water is Life”

: Mind Well :

After all it is our liability to preserve & conserve Traditional & Natural Water bodies for our Survival.

Let us adopt way to contribute to Water Conservation from today.



Modhao Govind Kotasthane

Civil Engineer

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Web. : www.waterislife.org.in

You Tube Search : Purti Sinchan

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E-mail: s.jambhulkar88@gmail.com

Date : 02/09/2018 Shrikrishna Janmashtami