

Rejuvenation of “MANDAKINI”  
Water Source for the Chitrakoot

**PRESENTATION**

**DISTRICT - CHITRAKOOT**

# Agenda

- River Mandakini- an overview
- Challenges & Assessment
- Goals to be achieved
- Works Undertaken/Executed
- Benefits of River Rejuvenation

# MANDAKINI

## Geographical Origin & Expansion.

- The river Mandakini originates from a place named Brahmkund, village Barha in Madhya Pradesh & terminates in river YAMUNA in district Chitrakoot Uttar Pradesh.
- The total flow span of the river is approximately 130 km of which 71 km span lies in district Chitrakoot UP.
- The total catchment area is approximately 1622 Sqm in Madhya Pradesh & 1185 Sqm. in UP.

➤ The total Population residing in watershed area of the river is as follows-

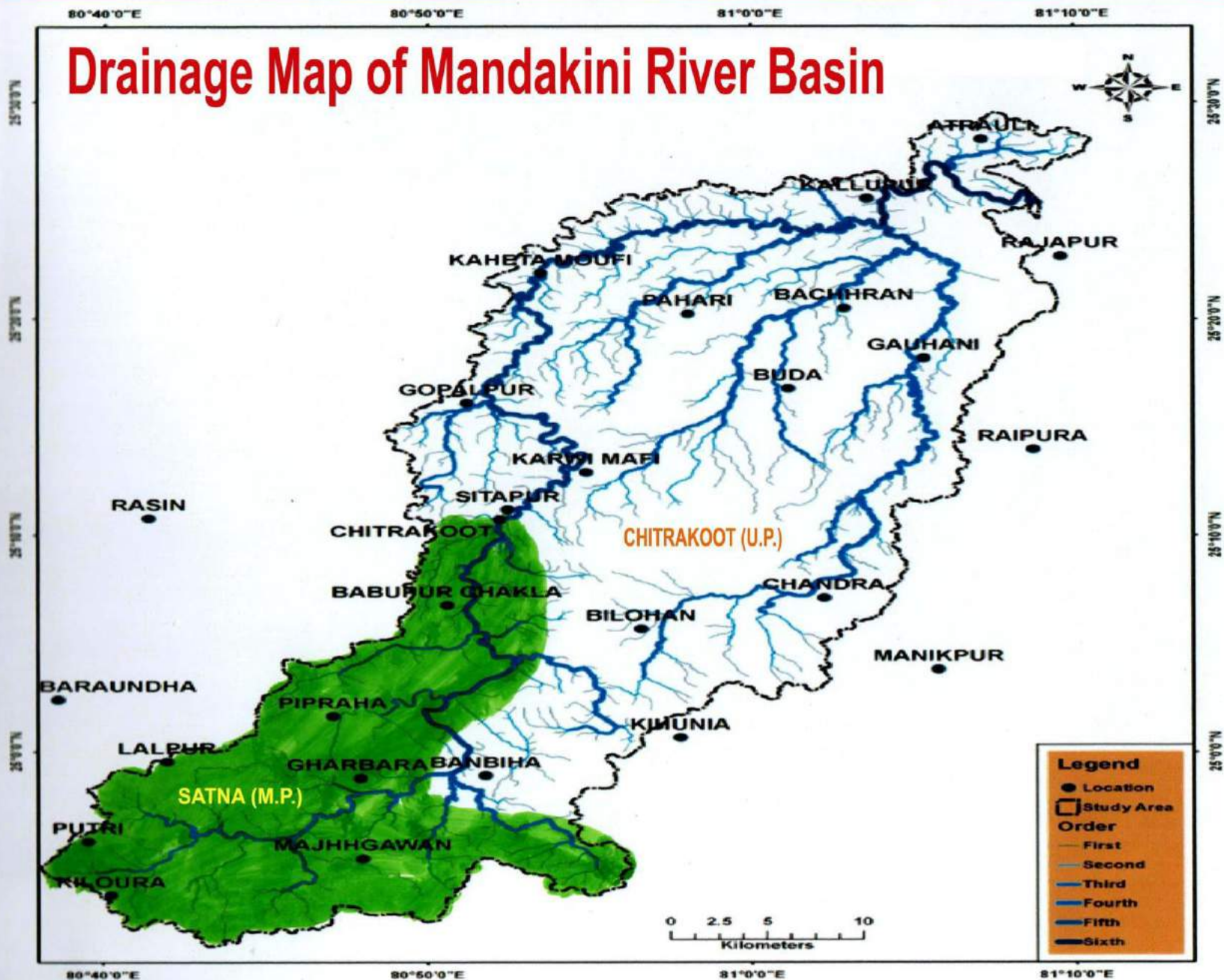
<b>Geographical region</b>	<b>Population</b>
Madhya Pradesh	576629
Uttar Pradesh	502398

- No. of households in the watershed area laying in UP region is approximately 86041
- No. of drains engulfing into the river in the upstream of holy place Ramghat are- 08

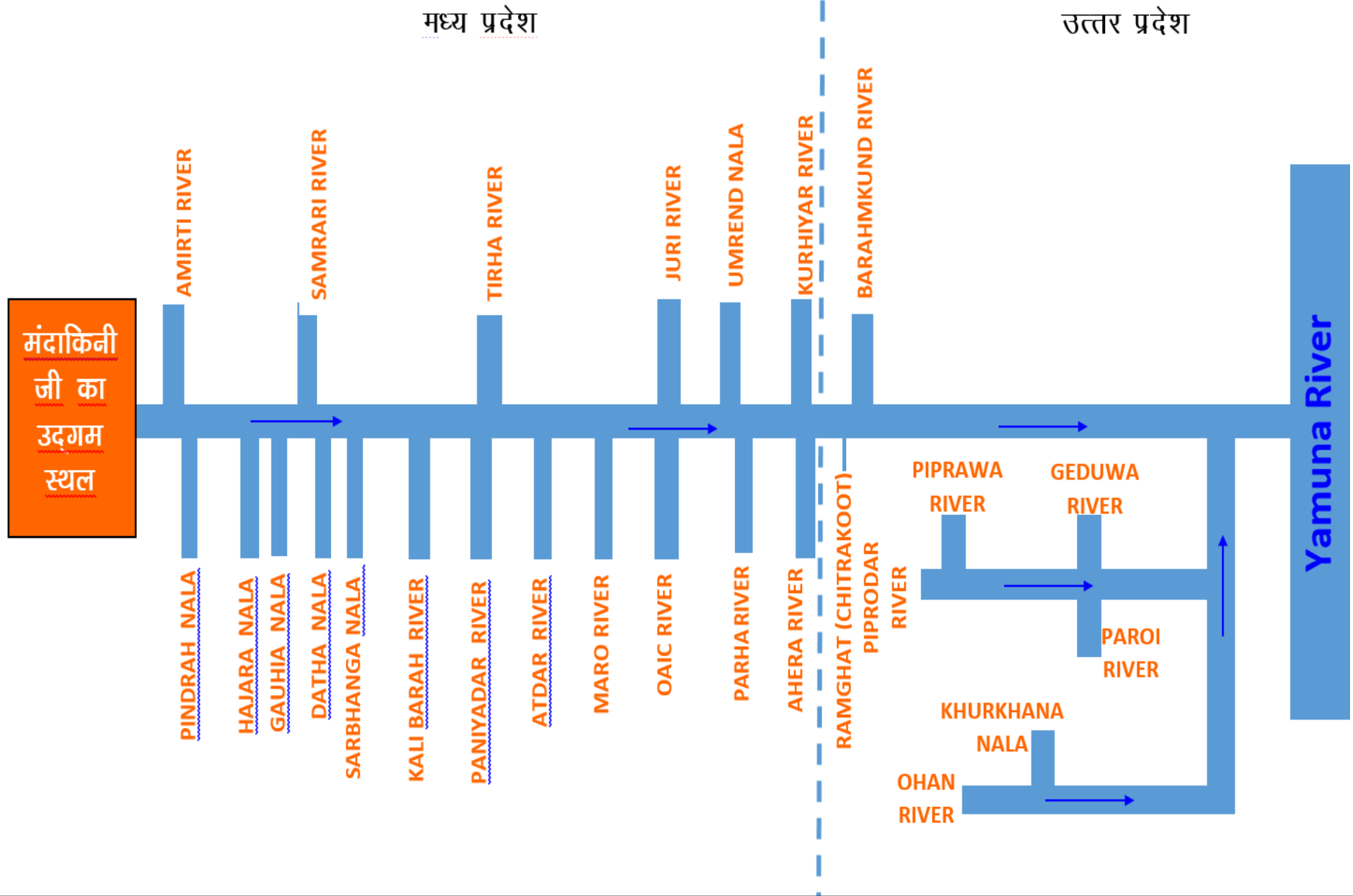


**Mandakini Origin Place**

# Drainage Map of Mandakini River Basin



# River Tributaries & Drains engulfing into the River



## • **Spiritual values Associated with Holy River**

- The river Mandakini has great spiritual & religious values associated with it.
- Lord Rama stayed in the vicinity of Mandakini for 11 & ½ Years during his period of exile.
- Great Hindu temples like Matyagajendra temple, Yagaya vedi of Lord Bramha ji, famous Hanuman temple are on the bank of the River.
- Historical evidences prove that great sage Goswami Tulsidas Ji used to worship at Ramghat.
- The entire geographical region is enriched with memories of Lord Rama, Lakshman & Maa Sita.

# Major Religious Establishments Along the Bank

➤ Sati Anusuiya Ashram



➤ Sphatic Sila



**Arogya Dham** ➔



← **Ramghat**

# **ULB's along the River**

Nagar Parishad Satna MP

Nagar Palika Parishad Chitrakootdham UP

## Present Condition & Challenges (Before work started)

### Water Supply Scenario of the City

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graph TD; A[Water Supply Scenario of the City] --> B[Source: Water intake from the river]; A --> C[Source: Use of ground water]; B --- D[Coverage: Approximately 90% of the Population]; C --- E[Coverage: Only 10% of the Population]; E --- F[Reason: Surface is rocky in nature – tubewell boring is difficult];
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#### **Source**

Water intake from the river

#### **Coverage**

Approximately 90% of the Population

#### **Source**

Use of ground water

#### **Coverage**

Only 10% of the Population

#### **Reason**

Surface is rocky in nature –  
tubewell boring is difficult

- Shortage of drinking water gets pronounced during summer as volume of water reduces & quality of water also deteriorates due to water stagnation.

- Dead flow of Water in the river channel.
- Deposition of the silt along the river bed.
- Burial of natural water sources.
- Narrowing of existing water channel.
- Absence of adequate volume of water during summer days.
- Depletion of flora & fauna.
- Effect on water supply of city.
- Shortage of water for the livestock dependent on river for water intake.

## **Steps taken for the REJUVENATION of the River**

### Assessment of the Present condition of the river

- The river channel was sort in water volume flowing & channel was also very constricted due to heavy silting.
- During summers due to lack of water in river, water stagnation used to take place. which in turn affects the drinking water supply of the ULB (Availability & Quality wise).

# Identification of goals to be achieved

## **Recharge zone**

- Making of new ponds
- Percolation tanks
- Contour trench
- Afforestation

## **Transition zone**

- Khet-Talab
- Check Dam/Stop Dam
- Ponds rejuvenation
- Afforestation

## **Discharge zone**

- Nala tapping
- Afforestation

## **Works Undertaken/Task Executed**

- A massive program for river dredging & silt clearing was undertaken.
- Every Panchayat & Local people along the river were motivated to execute the task.
- Massive plantation was also done by the ULB & Forest Department in catchment area of the river.

## Works undertaken by the different departments for the river rejuvenation are as follows

Sl.No.	Name of Department	Proposed/Completed works
1	Soil conservation department	761
2	Minor Irrigation department	06
3	Forest department	803301 units plantation
4	Panchayati Raj Vibhag	1012 catchment area development
5	Nagar Vikash Vibhag	16 drains tapping

# Rejuvenation Works undertaken by the Department



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# Rejuvenation Works undertaken by the Department



**Talab Construction**



**Khet-Talab Construction work**



**Contour Trenching**



**Nirmal Neer**

# Village Dilaura Check Dam



# Community Participation by District Officials & Local People



# FEW ILLUSTRATIVE PHOTOS OF WORKS UNDERTAKEN THROUGH MNREGA



**Gram Panchayat Sardhua site before dredging work started**



**Mnrega labourers doing job**



**Start of Water flow after completion of work**



**Gram Panchayat Bhatri site before digging work started**



**Mnrega labourers doing job**



**Start of water flow in river after dredging**



**Gram Panchayat Arki site before dredging work started**



**Mnrega labourers doing job**



**Inspection by District Magistrate after completion of work**

# Scenario of Mandakini River After work completion



# **Benefits of River REJUVENATION to Urban Local Body**

## **NPP Chitrakootdham & District Chitrakoot**

- No. of complaints regarding water supply & water quality reduced approximately by 70% as compared to before the rejuvenation work took place.
- Ease of river bathing to tourist & pilgrims coming to Chitrakoot.
- Substantial increase in water table of the river.
- Helps in quality water supply to natives of the city.
- Support in irrigation scenario as local farmers in Bundelkhand region are economically poor.
- Positive effect on local climate.
- Preservation of local flora & fauna.
- Strengthening of eco system.
- Preservation of old natural & historical entity of the region.
- Enhancement of pilgrimage attraction across the globe.

**Thanks**