Nandurbar Mandurbar Takhpati

Meeting Aspirations of Small and Marginal Tribal Families in Dhadgaon and Akkalkuwa Blocks, Nandurbar district, Maharashtra

Outcome Assessment Report 2021-2024





Nandurbar L^à Akhpati

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Outcome Assessment Report 2021-24





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Lakhpati 2.0 in Nandurbar

The Lakhpati Kisan program, a flagship program of Clnl works with the key objective of providing a three-fold increase in income for small and marginal farmers in the tribal hinterlands of Central India. Lakhpati 2.0 seeks to enhance the overall economic, social, and environmental security of the families living in the intervened program geographies. The collaboration with Tata Asset Management began in 2021 in Dhadgaon block of Nandurbar, to support small and marginal farmers and contribute to a larger, region wide program. In the following years, the program was scaled up to cover farmers in Akkalkuwa block of Nandurbar district and soon the initiative had expanded significantly. During the three year period, interventions such as drip-mulch irrigation, soil and water conservation techniques, and breed improvement efforts were carried out.

387

Farmers directly supported through the program under TAM



Average annual income increase for farmers from baseline income of INR 35k



Households provided with drip irrigation with mulching under TAM



Households provided with Osmanabadi buck for larger herd size and quality kidding





Total acres of farmland being cultivated using drip and mulch technique



Number of new dug wells provided, one per user group of 4 members each

Akkalkuwa and Dhadgaon districts which are two of the focus geographies for the program, **comprise of nearly 90% tribal population.** Akkalkuwa specifically, is considered as one of the **most remote**, **underdeveloped and backward blocks** in Maharashtra.

The primary target group are rural tribal families belonging to Bhil and Pawara tribes, who are predominantly dependent on agriculture (staple crops of jowar, maize, etc.) and livestock (small ruminants).

81 villages from Dhadgaon & Akkalkuwa blocks



76 Local Village Institutions (VI)





1 Farmer Producer Company with 2500+ shareholders

Data Analysis

Households provided with

drip & mulch under TAM

To gain a better perspective of Lakhpati 2.0's outcomes in Nandurbar, data on farmers using drip and mulch technique, recorded in CInI's MIS systems were analysed.

Year-on-year new HH	2021-2022	2022-2023	2023-2024
interventions	31	U6	80
HH's with data recorded over the years	29	37	44

Sample HH's with data recorded

in CInI's MIS from the set of 144

Year-on-year incomes, though at different rates, have grown steadily through the three year program period



In Y1, the average income of 29 farmers was 82.17K, which is nearly a 57 % increase from their average baseline incomes of INR 35,000. In Y2, the income of 37 farmers was averaged at 93.64K, whereas in Y3, the average income of 44 farmers was 95.11K.

In Y1, farmers performed diversely, with maximum number of households seeing up to 100% or 200-300% Increase in income.

22% of 29 farmers intervened in Y1 experienced losses.



% income increase in Year 1 of the intervention

Variances can be seen in the performances of the 28 farmers that CInI has worked with since Y1 (2021), with data recorded for all three years.

In the graph, a comparison has been drawn between the income growth over the three years agaisnt the baseline income of INR 35,000, for the selected 28 HH's.

Year 1 (2021-22)

Year 2 (2022-23)

Year 3 (2023-24)



Considering the diversity over three years, as shown in the last graph, it is important to understand why some households performed consistently over three years, and why some have had more varying journeys.

The 28 selected farmers have been divided into 3 categories based on their individual journeys.

Data available on cropping patterns, usage of drip technology, livestock ownership and seasonal trends was utilised to understand the characteristics of the four categories namely Aces, Bolters and Crawlers.

1 of the 28 HH's saw an inverse growth rate over the 3 years, since they were unable to adopt high value vegetable cultivation or drip technology successfully.





ACES

Households that have an income growth of 50% or more in all 3 years

Total 12 Households

Stable but Conservative Approach

Farmers who followed a stable low risk approach, continuing their methods without utilizing the drip and mulch technique but ensuring steady income. They relied on livestock, however, faced income stagnation in Y3.

Total 4 HH's

Highly Adaptive and Diversified Approach

Farmers who experimented with watermelon, chilli, brinjal, tomato and used drip irrigation in some cases. They also engaged in frequent crop rotation, cultivated in all three seasons and also diversified livelihoods through livestock rearing.

Total 8 HH's



Households that see flashes of high growth initially but faulter over time Y1-Y2 above 50%.

then down in Y3

Total 07 Households

Initial Success with Sudden Loss or Drop-off

Farmers who saw good returns in the first one or two years by using drip irrigation, growing high value vegetables and/or rearing livestock. These farmers either discontinued the technique or faced major livestock losses potentially contributing to a decline.

Total 5 HH's

Consistent but Limited Cultivation with Mixed Returns

Farmers who engaged in only 1-2 seasons of cultivation with or without drip irrigation, resulting in inconsistent or restricted returns later on.

Total 2 HH's



CRAWLERS

Households that start slow and grow gradually over time Up/down in Y1, down in Y2 and then up in Y3

Total 08 Households

Late but Steady Growth

Farmers who delayed or limited adoption of new practices in Y1 but later scaled up quickly, even cultivating in all 3 seasons.

Total 5 HH's

High Experimentation with Higher Risk

Farmers who frequently tested new crops and methods like cabbage and muskmelon with drip irrigation etc. experiencing ups and downs along the way.

Consistent Cultivation with Sudden Livestock Loss

Farmers who were practicing drip technique and cultivating regularly, but underwent a major livestock related loss in Y2 or Y3.

Total 3 HH's

Nandurbar's Key Challenges



When the partnership began, the communities were facing immense difficulty & hardship.

As per census 2011, Nandurbar district has a **total population of 16,48,295.**

The **tribal community** there makes up for **69.27%** of the total population of the district.



0.604 Human Development Index (Ranked 35th,last in the state)



64.32 Average literacy rate



15% Rise in malnutrition in June-July due to seasonal migration

Agriculture

a predominant livelihood in the region, was practiced only for subsistence, with very low productivity and returns

Farmers in the two chosen blocks, practiced rain fed agriculture which is heavily dependent on monsoon, resulting in repeated failures and agriculture distress.

Vegetable production was for household consumption, with very low agricultural commercialization.



Migration to other states

has been a key concern in Nandurbar since CInI's foundational programs in the district

Key reasons for out-migration:

Better work opportunities in industrial/ urban areas



Better facilities for higher education

Seasonal Migration for Agricultural and Other Labour

As per a study by IJAR, where 300 migrating families(tribal) of Nandurbar were interviewed, at least 3.6 labourers per family had migrated, **earning an average of INR 12,175 per labourer via this migration.**

Layered Solutions

ClnI's approach to solution building for Nandurbar addresses the district's contextual needs and helps create local level linkages, and knowledge sharing avenues to solve them.



Opportunities to diversify livelihood income sources



Access to new technologies and infrastructure





Technical inputs via Community Resource Persons (CRPs)



Access to inputs, backward and forward linkages

Through the program, ClnI has been working on the ground to not only address visible issues and needs, but also address underlying patterns, structures and behaviours that shape them.

The iceberg model has been used to uncover deeper causes behind rural agrarian challenges, and how CInI's solutions address them.



CASE STUDY #1

Increasing Access to Water for Smallholder Farmers

The story of Palya Foparya Pawara, a small holder farmer from Dhadgaon, showcases how basic agricultural infrastructure and access to government schemes can reverse seasonal migration patterns

PROBLEM

Nandurbar experiences a hot & dry climate with minimal annual rainfall. A large portion of the district's agriculture is rainfed. However, the hilly terrain with sparse tree cover makes it difficult to retain rainwater.

Nearly half the farmers in India, with landholding less than 2 hectares, are dependent on rainfall for agriculture, with little to no access to irrigation.

For irrigation, majority of the farmers are dependent on groundwater, often accessed through dug wells, bore wells and pumps. However, this access is not uniform.

When lacking, farmers often migrate in search of alternate livelihoods. This migration is often temporary and seasonal, with farmers returning to their villages for farming during certain seasons.

70-80%

Farmers depend on groundwater for irrigation rainfall in Nandurbar

767mm

Average annual

USER PROFILE Palya Foparya Pawara



Location Kharwad, Dhadgaon, Nandurbar

3 acres (shared usage by UG)



Type of Intervention Construction of dug well for irrigation by 3 member user group



Year of Intervention 2023-24



Commodities grown (pre-intervention) Sorghum and Maize



Commodities grown (post-intervention) Sorghum, Maize, Groundnut, Black Gram and Okra

SOLUTION **Dug wells**

CInI facilitates the repair of old and construction of new dug wells to be owned by user groups. **Recommendation of user groups** are made by 'Village Institutions' based on sanctioning of projects.

Each dug well is 30 feet deep and 20 feet wide. Clnl invests up to 85% while the UG invests up to 15% of the total cost of INR 3.3L/dug well.





The challenge of low agriculture incomes and productivity and its relationship with access to irrigation can be better understood via the iceberg model.



For Palya, the layered solutions have materialised to change his livelihood options

Palya's Migration Challenge

A father of 5 children, Palya, until recently, was solely dependent on rain fed agriculture without access to any source of irrigation. His farming activities were limited to subsistence level during the monsoons. This in turn, would force him and his sons to migrate to Gujarat for agricultural labour work during winter (Rabi) & summer seasons.

However, he ensured quality education for his daughters who are now specializing in nursing and pharmacy.





Water User Group Model

Palya, with the help of the VI, formed a **user group with his brothers for shared access and usage of water** through the dug well provided by CInI.

Local Governance and Decision Making

In order to stop Palya from migrating, the **Village Institution (VI)** in agreement with the brothers, decided to let **Jobi first utilize all the water collected in the well** to irrigate their shared land during the next winter - summer seasons.



the solar water pump connected to the dug well

With the irrigation support I

will earn more. I have resolved

to never return to migration.

PALYA PAWARA, MEMBER OF DUG WELL UG

Local Technical Advisory and Support Services

Palya was guided throughout by **CRP Santosh,** who also encouraged him to apply for the government's **KUSUM scheme** for accessing solar powered irrigation funds.

Santosh, a member of the gram panchayat, is **trusted by all the farmers** in his village. Through Clnl's support, he is able to extend unhindered service to the farmers.

In the first Kharif after the intervention, Palya was able to successfully produce Black Gram and Groundnut. He now wishes to cultivate vegetables using drip and mulch technique, from the profits generated from Groundnut. 25 Quintals Total Groundnut production 1.5L INR Income from the sale of Groundnut CASE STUDY #2

Promoting Crop Diversification and Providing Input Support

The story of Shobha and Ratilal Pawara, a young farmer couple from Dhadgaon, showcases how knowledge and access to innovative farming technologies and inputs can help maximize a farmers existing resources.

PROBLEM

Nandurbar's agriculture is dominated by traditional crops like Jowar and Maize used for self consumption, with limited diversification. This affects income stability and prevents farmers from growing and creating safety nets.

Lack of inputs and access to modern techniques

Marginal and smallholder farmers face challenges due to small landholdings (less than 2 hectares), and inadequate access to quality inputs and modern farming techniques.

Lack of opportunities for rural youth

In India, majority of the rural youth are engaged in agriculture and allied activities. However, almost all of them seek non farm jobs in urban areas due to limited access to technology and perceived low productivity and profits in traditional agriculture.

80%

Rural youth engaged in agriculture in India

85%

Of them seek non-farm jobs in urban areas

USER PROFILE Shobha & Ratilal Pawara



Location Jarli, Dhadgaon, Nandurbar

7 2

Agriculture Landholding **2 acres**



Type of Intervention Drin and Mulch techniqu

Drip and Mulch technique for growing high value fruits & vegetables



Year of Intervention **2021-22**



Commodities grown (pre-intervention)
Sorghum, Maize and Groundnut



Commodities grown (post-intervention) Watermelon, Chilli, Tomato, Sorghum, Maize and Groundnut

SOLUTION Drip Irrigation with Mulching

ClnI has introduced a 'drip irrigation with mulching' technique to help farmers optimize water usage, minimize weed growth and soil erosion, and reduce the need for labour and associated costs.

Using this technique, farmers can maximize existing resources, diversify their crops by growing high value fruits and vegetables and save water by up to 30% compared to traditional methods.



The layered problem of rural youth migration and solutions in agri-entrepreneurship, skilling and rural ecosystem building can be better understood by the below iceberg model.



With access to existing water resources, all Ratilal and Shobha lacked was the access to knowledge, technology and inputs to transform their farming activities. This was made possible via a local ecosystem of service providers.



Farm Inputs from Farmer Producer Company

The FPC provided various farm inputs like mulching paper, fertilizers, pesticides etc. to Shobha and Ratila.



Saplings from the Local Nursery

Shobha and Ratilal purchased chilli saplings, suited to their farm needs, from the local nursery.

> With the new technique, they could to do two cycles of chilli and one of watermelon. They were also able to buy a bike and invest in jewelery with the income earned.

INR 1.8L

Annual income from watermelon in Y1

5x

Income increase from baseline agri income of INR 35,000/ year



Technology Inputs by the TAM-CINI Partnership

Farmers like Shobha and Ratilal have benefited from the installation of drip irrigation and with mulching technique.



Tractor Rentals from a Custom Hiring Center

The FPC also operates a custom hiring center which provided a tractor at subsidised rates to them.



Technical Support and Guidance via CRPs

Roopsingh a CRP provided constant guidance and technical assistance to Shobha and Ratilal.

Ratilal and Shoba Pawara

My wife and I have a BA degree. I didn't enjoy the low paying job in Pune. While we had access to water on our land, we had **no idea or technical skill for farming of high value vegetables.** Now with drip & mulch, I am able to **earn more than the job.**

RATILAL PAWARA, DRIP & MULCH USER

CASE STUDY #3

Strengthening goat rearing and agriculture as interlinked, sustainable livelihoods

The story of Sumani and Bhimsingh Paradke highlights how access to innovative and improved inputs can help farmers diversify their livelihoods and income sources.

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PROBLEM

For Nandurbar's farmers, exploring beyond agriculture wasn't always a lucrative affair. Diversifying livelihoods, like rearing livestock was limited to traditional, low value breeds and practices, not providing substantial incomes.

Lack of modernisation in traditional livelihoods

While most households in Nandurbar would rear goats, herd sizes remained low. No breeding programs had been introduced in the region thus far and resistance to change was also high.

Lack of Support Services

Goat rearing requires additional support as goats are sensitive animals. Nandurbar, however, lacked access to veterinary services and supply chains for long term sustenance of new breeds.

3.23L

4-8

NNNNNNN

Number of goats in Nandurbar district, 2019 Average herd size per HH (desi breed)

USER PROFILE Sumani & Bhimsingh Paradke



Location Akkalkuwa, Nandurbar

Agriculture Landholding 6 to 7 acres, shared by 3 brothers



Type of Intervention Introduction of Osamanabadi pure breed buck (male goat)



08

20

Year of Intervention **2022-23**

Livestock strength (pre-intervention) 8 goats all local desi breed

Livestock strength (post-intervention) 20 goats, all Osmanabadi-desi mix breed since its the first few breedings

SOLUTION Introduction of Osmanabadi Buck

Osmanabadi buck induction is a breed improvement initiative by CInI. The Osmanabadi variety improves the kidding index and this breed is especially well known for substantial daily weight gain.

Exposure visits are conducted to introduce goat rearers and buck entrepreneurs to the techniques for cultivation of new varieties of green fodder, shed-nutrition management



While diversifying livelihoods is a common strategy, layered challenges hinder its adoption. These can be better understood by the below showcased iceberg model.



For Sumanibai and Bhimsingh Paradke, diversifying their livelihood meant gaining access to a host of new inputs, including an improved Osmanabadi breed buck.



Breed Improvements via the CINI-TAM partnership

The family originally had only 8 desi goats from the region, which weighed and reproduced lesser. The introduction of the Osmanabadi buck has now increased their herd size to over 20 goats in one year.



Para-Veterinary Services

In Akkalkuwa block, a network of para-vets manage 40-50k goats in the region, providing vaccination, deworming and other technical advisory.



Package of Practices

Alongside goat rearing, CINI also provided trainings on improved farming practices. The family now utilizes the grain for their own consumption, and as for fodder for the goats.



Bhimsingh Paradke feeding his goats



Income Improvements

Thus far, the family has sold 4 of their goats after the herd size increased substantially. They earn over INR 10,000 per goat sold.



Local Breeder Farms

To ensure a continuous supply chain of improved bucks in the region, CINI has incubated an entrepreneur to set up a breeding center for Osmanabadi goats. It has 50 goats and 3 mature bucks.

2.5x

Growth in herd size from 8 desi goats to 20 Osmanabadi-desi mix goats in 2.5 years

INR 40k + Income from selling 4 mature goats Our family has started **saving more money** and we have also purchased additional silver jewelery as investments.

> BHIMSINGH PARADKE, BUCK ENTREPRENEUR

Interlinked Outcomes MARAMAR

Today, after working with hundreds of farmers in CINI is recognising that its solutions are building on themselves to create sustainable outcomes & impacts.



Re-investments of agri incomes by farmers to grow the local economy through alternate businesses



Investments by farmers and other stakeholders for region wide adoption, development and growth





Investments by farmers for farm expansion and adoption of new solutions



Investments by farmers to create safety nets for long term development needs

Causal loops have been used as a tool to illustrate how the solutions provided by CInI have created interconnected and reinforcing cycles of change in rural agricultural systems.

The cause-and-effect relationships between factors like improved agriculture technologies, migration, farm incomes, livelihood diversification, local job creation, local support systems etc. have been mapped for three cases.

The diagrams help visualize how a single intervention can trigger broader social and economic transformations, at a local, regional and state level.

Highlight the dynamic nature of rural development, where changes in one area influence multiple aspects of farmers' lives. Distinguish between reinforcing feedback loops that drive sustainable change (e.g. increased income leading to reinvestment) and balancing loops that prevent setbacks (e.g. job creation reducing migration pressures). Moving forward, these diagrams can help CInI and other stakeholders understand key areas where targeted interventions can create the most impact.

CASE STUDY #4

Re-investing agricultural incomes into growing the local economy through alternate businesses

Nandurbar's economy is heavily dependent on agriculture, with most individuals being limited to on farm activities. This has created a need for alternate businesses and incomes.



Dilip's journey from a driver to an auto rickshaw fleet owner to a local economy enabler was propelled by crop diversification and improved techniques at his farm.



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Investments by farmers to create safety nets for long term development needs

> For long term stability, farmers in Nandurbar have been reinvesting their agricultural incomes into assets and techniques like drip-mulch irrigation, crop diversification etc. that can safeguard them against climate and economic uncertainties.

USER PROFILE Malakya Deba Pawara



Radhikalam, Dhadgaon, Nandurbar

Location



Agriculture Landholding **1 acre**



Type of Intervention Drip and Mulch technique for high value fruits & vegetables



Year of Intervention **2021-22**

CASE STUDY #

Malkya and her family first invested in the drip and mulch technique for high value vegetable farming in 2021. Since then, they have seen a steady increase in their annual income, which they have invested back judiciously into farming activities.

Earlier, we were using the drip and mulch technique on a small portion of land. Since then, we have **expanded the area under drip and mulch to 2.5 acres,** growing watermelon and chillies. With this income, we no longer have to mortgage our silver for loans. We are also able to **support our three children with higher education and are building our house.**

MALAKYA DEBA PAWARA, DRIP & MULCH USER

INR 3.5L

Annual earnings from the sale of Watermelon and Chilli in 2 years

Socio-economic

stability

and growth

Creation and

expansion of

safety nets

2-2.5x

Increase in the area under drip irrigation with mulching

Seasonal

crop rotation

and improved

production

Steady and

agri income

surplus seasonal

Access to

mproved

Reinforcing

Loop

technology and inputs

This causal loop diagram shows how farmer led investments in safety nets can drive long term stability.

The reinforcing loop highlights how expanding drip and mulch cultivation, led to seasonal crop rotation and improved production, leading to steady and surplus agricultural income.

This income supports household needs, education, and infrastructure, thus fostering socio-economic growth. As stability increases, further investments in improved technology and inputs strengthen the cycle for farming families.

Investments for region wide adoption, development and growth

SIJIDY #6



For region wide growth, investments have been made by the wider ecosystem towards regional saturation, farmer institutions, market access and shared infrastructure.



USER PROFILE Bhanibai and Samari Vasave



Location Sakliumar, Akkalkuwa, Nandurbar



Agriculture Landholding **1 acre**



Type of Intervention Drip and Mulch technique for high value fruits & vegetables



Year of Intervention **2023-24**

While CInI has supported many farmers in the Akkalkuwa region to adopt strawberry farming using drip and mulching technique, a major breakthrough was unlocking investments by the local government for the program.

0.56 Acres

Total area under drip and mulch for strawberry cultivation in 2024

INR 2.5L Annual earnings

from the sale of strawberries in 2024 Initially, we started with only 5 strawberry farmers in the region, to prove out the business case. Overtime as the success rate increased, farmers approached the District Magistrate to support them. Shortly after, 100 more farmers were supported financially by the district. The region is now known for its high quality strawberries.

SAMARIBAI VASAVE, DRIP & MULCH USER, AND STRAWBERRY FARMER

This causal loop diagram shows how targeted interventions can drive regional agricultural growth





The reinforcing loop shows how a small group of successful strawberry farmers attracted institutional support, leading to regional commercialization.

Access to improved technology and practices, strengthened market linkages and supply chains.

This spurred further investments in farming in the region, and transformed the region into a hub for high-quality strawberry production.

Emerging Needs WARAAAAA

While ClnI's solutions have created strong foundations; evolving farmer needs, market conditions and climate stresses highlight the need for evolving support and innovation.



Promoting post harvest processing and value addition activities through the integration of technology



Building the ecosystem through backward and forward linkages



Building long term **climate resilience** among marginal and smallholder farmers CInI has already deployed and tested various entrepreneur and FPC driven backward linkage solutions which provide inputs and services to farmers. It is now seeking to replicate and scale these models.

Saplings and other Farm Inputs through Local Nurseries and Breeder Farms

CInI has incubated various entrepreneurs that operate local nurseries to provide saplings as per local needs of farmers. CInI has also incubated an FPC of over 2,500 farmers who provide essential inputs like seeds and irrigation equipment to farmers at affordable costs.

Furthermore, CInI has helped local entrepreneurs set up breeder farms for providing Osmanabadi bucks, and other inputs to farmers rearing goats.

Custom Hiring Centers (CHC's)

The FPC also operates Custom Hiring Centers which provide mechanisation services, for example tractors at lower costs compared to the market.

22 Nurseries set up in the 2 blocks

Breeder farms established

05

Assistance in Building Market Linkages through the Farmer Producer Company

The FPC is assisting farmers in building improved market linkages. In a first experiment, the FPC facilitated a collective marketing model for a group of 66 farmers.

For strawberry farmers, the FPC is now assisting them to capture local markets with improved packaging and branding solutions.







CASE STUDY #7

Building long term climate resilience among small & marginal farmers

Field bunds filled with rich top soil post monsoons

Regions like Akkalkuwa in Nandurbar, are facing topographical changes over the years due to deforestation and climate change. Today, alongside improving farmer incomes there is a growing need to identify and deploy solutions that improve the region's soil, water access and overall biodiversity in the long run.



Field or Farm Bunding

Strong rains and winds blow away precious but loose soil on the hills of Akkalkuwa. As a result, soil is washed away downstream, making farm land devoid of natural nutrients.

Adopting a forward looking solution, CINI convinced a UG in the region to come together and improve 5 acres of their land collectively using natural techniques of field bunding.

In this solution, large trenches (10x1.5x06m) are dug around all sides of the land parcel. During monsoons, as water rushes through the fields, it is collected along with the rich top soil into the trenches, which can then be utilised by farmers during the agricultural seasons.



23.5 Acres

Land where field bunding has been carried out under the TAM program



Soil Testing facilities for farmers

The CINI-TAM partnership made available soil testing facilities by Neoperk, at the doorstep of farmers, advising them on the precise quantities of farm inputs they should use to enrich their soil, and, prevent overuse and soil degradation.





Bio-Inputs for Vegetable Farmers

While the CINI-TAM partnership has already made bio-inputs available to make farming more sustainable, improved coverage and robust of supply chains are critical.

(Left) Field bunding work in progress in Akkalkuwa, (Right) Farmer testimonial for soil testing from Neoperk



Nandurbar MMMML^àakhpati

Meeting Aspirations of Small and Marginal Tribal Families in Dhadgaon and Akkalkuwa blocks, Nandurbar district, Maharashtra

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