

PROJECT FUNDED BY

RM Tulpule Charitable Trust

IMPLEMENTATION PARTNER



2023-24



Ranje Watershed Project



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Confidentiality

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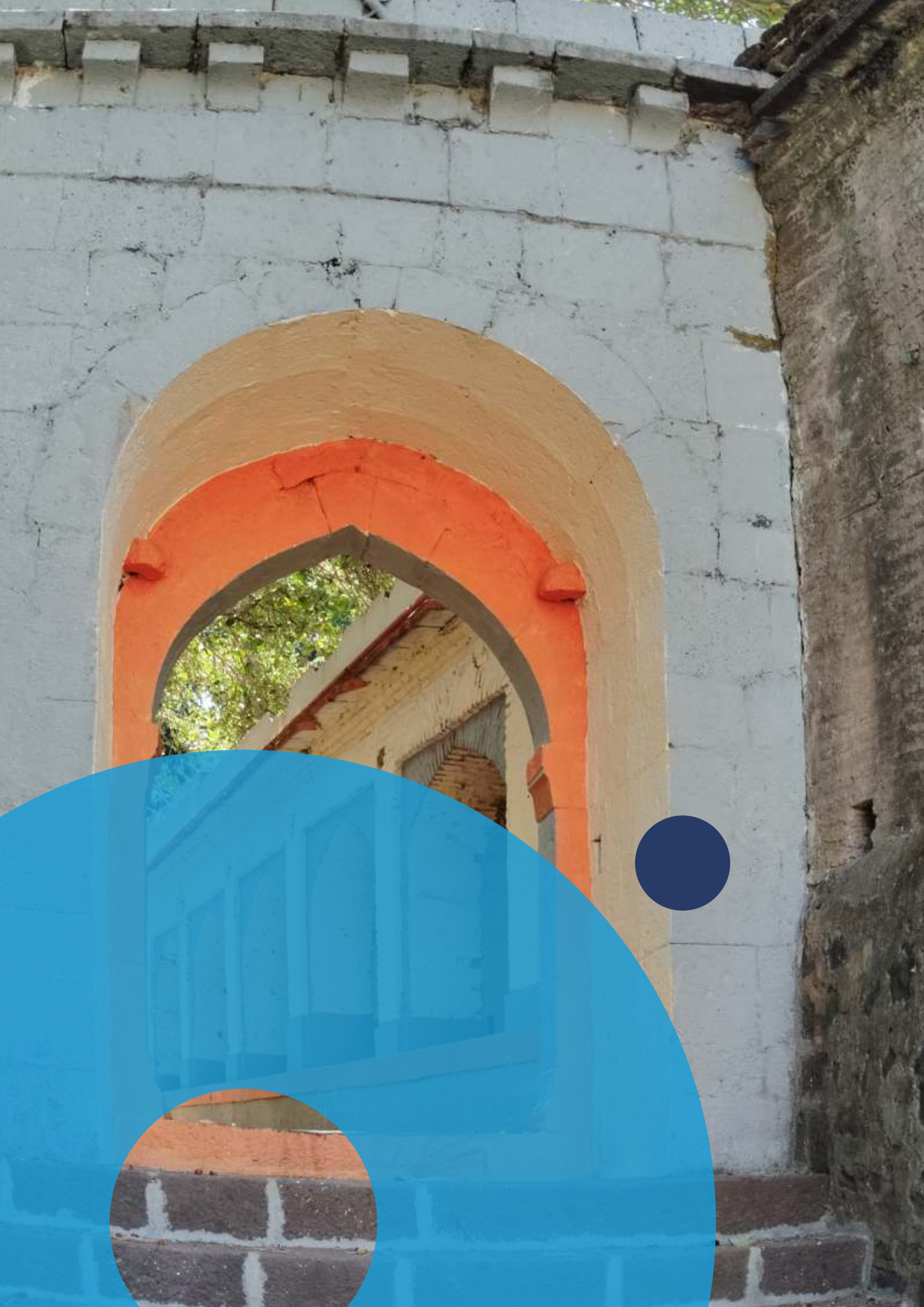
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Confidentiality Statement

Deepastambha Charitable Trust, Pune is submitting this document on the understanding that the contents would not be divulged to any third party without prior written consent from Deepastambha Charitable Trust, Pune.

Release History

Version	Release	Date	Initials
1.1	V 1.1	14, June 2024	AD, SP

Disclaimer

Deepastambha Charitable Trust, Pune is registered under Bombay Public Trusts Act, 1950. (Reg no: E-5602). The Trust is registered under section 80G of Income Tax Act and also registered under the Foreign Contribution Regulation Act,2010. We offer consultive and operative services for implementation of CSR activities in rural development for better livelihoods and help achieve Sustainability and Development Goals - both at strategic and at operational level.

1. Acknowledgement

Working with RM Tulpule Charitable Trust has been a truly enriching experience. We extend our heartfelt thanks to Bhalchandra Tulpule for his generous financial contribution. Our gratitude also goes to our well-wishers and guides for their inspiring guidance, invaluable constructive criticism, and friendly advice throughout the project.

We are grateful to the team of Ranje villagers, along with their leaders and coordinators, for their time, efforts, and outstanding work. Lastly, we deeply appreciate the unwavering support from all the members of Deepastambha Charitable Trust, Pune in various project activities. Your feedback is invaluable and helps us continually improve the quality of our functions as a charitable trust.



2. Introduction to Deepastambha

Established - In the year 2008

Mission - To integrate 'Social' Sense in human beings for making this world a better place for all.

Work Domain

- Upayn - donation in the form of gift: All donation camps are covered under this umbrella.
- Eco-Paavitrya - Environmental sustainability while celebration
- Conserve To Serve - Natural Resource conservation
- Encourage, Engage, Educate and Empower children through activities-
 - Skool Falak
 - Skool Sansad
 - Skool-Kit preparation & study material making for challenged children.
 - Awareness on Child Abuse
 - Skill development
- Gramarthan - Making village self-contained.

- Niramayaa - Health and hygiene awareness
- Visiting Organization like - Orphanages, Old age homes, Special children, HIV positive children, cancer patients etc.
- Weekly 2 hour activities - Traffic awareness, community space cleaning, knowledge sharing, exploring new social issues, visiting slum areas to help, animal rights etc.

Area of work

- Across Maharashtra
- Online activities across globe

Legal & Intellectual Property

- Deepastambha is a Charitable Trust registered under Bombay Public Trusts Act, 1950.
- We are registered under section 80G of Income Tax Act, and we have obtained registration certificate 2A.
- We are registered under the Foreign Contribution Regulation Act, 2010 (FCRA).

Statistics

Over 1500+ activities, 750 registered members & counting. Associated with 40 NGOs, 500+ schools and over 55 corporates for CSR across Maharashtra



3. About Gramarthan

Established - In the year 2013



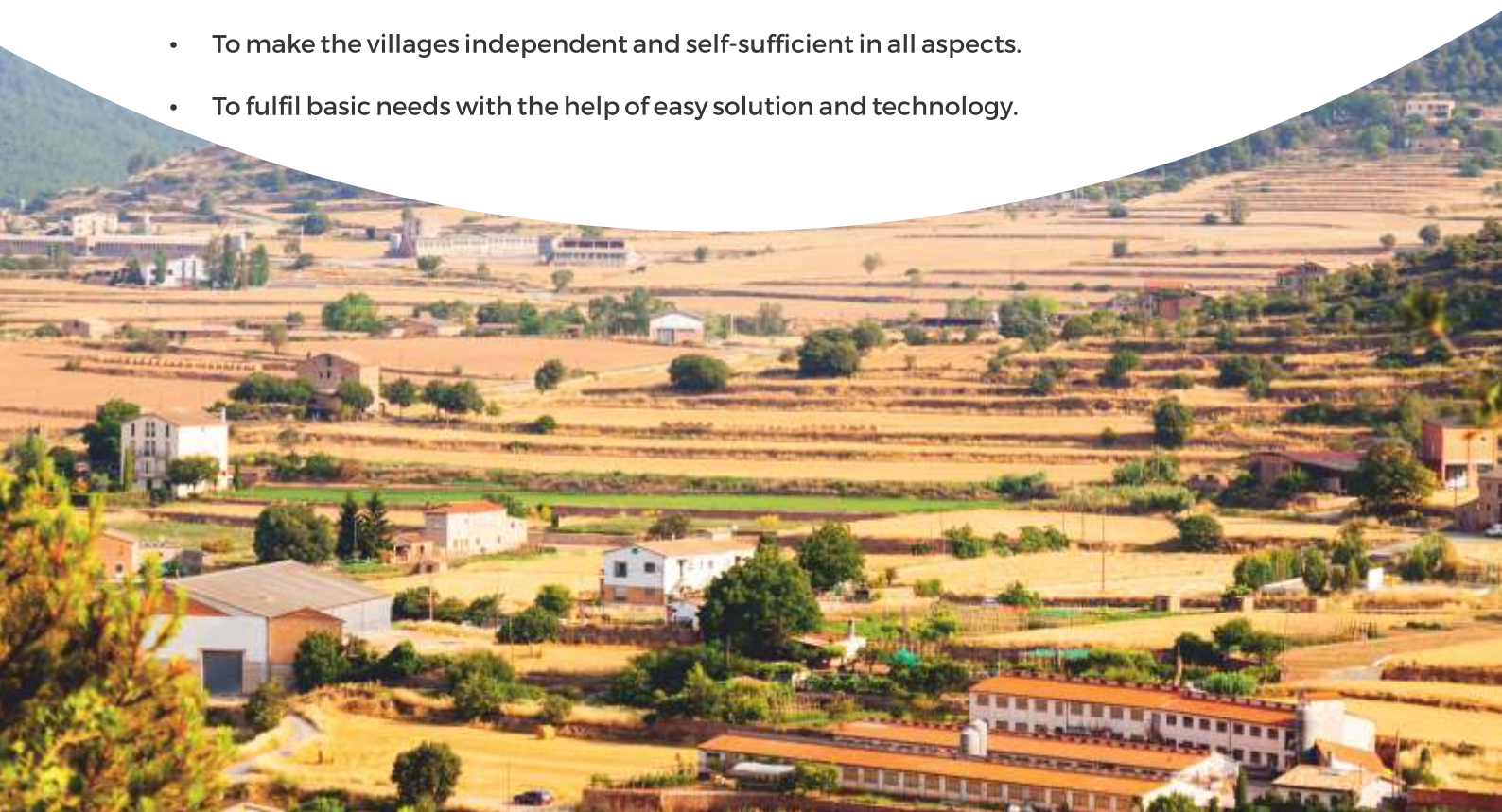
Our Belief

Bringing people together to work towards a common goal requires time and effort despite the obvious advantages of working with communities instead of individuals. It is also difficult to build sustainable institutions, so developing the leadership capacity of group members and community resource persons is a crucial step. To succeed, it is critical to work in partnership with the community—gain their trust, listen, and respond to their concerns, and identify locally relevant pathways to secure their livelihoods.

Moreover, investments in rural communities must go beyond short-term solutions in order to ensure long-term resilience. As a result, livelihoods are enhanced through the effective participation of corporate houses with CSR and rural communities in the management of their own social, economic and environmental objectives. This is done by empowering people in remote areas, particularly women and youth, including local cooperatives, as a bottom - up approach.

Objectives

- To assist villages in availing basic needs in eco-friendly manner using natural resources.
- To engage domain experts interactions for using different available resources in constructive manner.
- To help villagers in acquiring basic medical facilities, education, income generation techniques, women empowerment, technological opportunities.
- To make the villages independent and self-sufficient in all aspects.
- To fulfil basic needs with the help of easy solution and technology.



Projects and Activities

- Skool-Falak – Preparation of Display Boards by children with information that is extra curricular.
- Library set-up and development of reading habits and techniques
- Skill Development Programs - Yoga and dance classes, career development, computer classes, drawing, craft, etc.
- Career Guidance Sessions or additional classes for various extra curricular subjects
- Awareness - Child abuse awareness, cleanliness, menstrual hygiene awareness through digital media.
- Swacha Maze Gaon: Cleanliness drives, competition in schools, knowledge sharing, and more.
- **Watershed Management Projects**
 - Conducting watershed surveys
 - Built a water reservoir with capacity of 25 Lakh Ltr at Ranjane.
 - De-silting of water bodies in Pune and Dharashiv District – approx 10 Cr. litre water recharged.
- Repair works of 4 nos. check dams covering length of 2.5kms in Pune District as a part of Shramsetu - “Shramadan” activities.
- Niramayaa - Conducting awareness programmes on menstruation health and personal hygiene, monthly OPD, conducting Health Camps on Cervical Cancer and Breast Cancer, Eye Check- up, Hemogram tests etc.
- Team building – celebrating festivals with villagers, watching movies, encouraging volunteerism amongst villagers for various development oriented initiatives.
- Women Empowerment – Training on various skill sets, lectures on entrepreneurship development, prototype programs for confidence building, counseling sessions for family members
- Green Initiatives- Installation of solar water pump systems, solar streetlights, water ATMs, tree plantation drives etc.

Geographical Scope

Maharashtra

Vision for SDGs for Maharashtra 2030



- The fundamental principle of the vision- Sustainable, balanced and all inclusive socio-economic growth of the State
- A sustainable environment enables a sustained growth across all sectors.
- Investment in environment helps in self-sustaining growth over long term hence, utmost importance has been given to environment; forming a bedrock for the five pillar strategy



4. Project Details

4.1 Background

Ranje is situated in Bhor Taluka of Maharashtra state. It is around 35km from Bhor and 60km from the district city, Pune. The primary source of income in Ranje is agriculture thanks to the rich soil in this region. However, this region also faces more than 6 months of rainfall, which results in precious top soil erosion from the fields and consequently sedimentation in the Shivganga river near an old water bund increasing risk of flood and decreasing the quality of water.

For this purpose, Ranje village community asked Deepastambha Charitable Trust, Pune (DCT) for their assistance.

4.2 Objectives

The objective behind taking up Shivganga river de-silting were:

- To increase the water retention capacity of the dam.
- To stabilize and construct the river banks to prevent erosion.
- Conservation of water and improvement of water quality and conservation of soil.
- To construct stone pitching around the fields near the riverbed so as to filter the water flowing to the river.
- To construct the farm roads from the slit.
- Develop and enhance the flood plain areas to absorb the excess runoff water.
- Improving for a cleaner river and water security for longer duration.

4.3 Project Plan

4.3.1 Survey

DCT carried out a survey (shivar pheri) in order to understand the problems faced by villagers and the exact scope of the project. DCT carried out such 2-3 visits with watershed expert and the village representatives to understand the issues.

The survey showed that dam on Shivganga river near the village had accumulated a lot of silt, however this dam itself, which was built by Chhatrapati Shivaji Maharaj about 350 years ago, was still intact and did not require any repair. The silt mainly consisted of small and big stones.

As per the expert guidance, dam de-silting location and the project scope was identified:

1. To increase the water retention capacity of the dam by de-silting.
2. To stabilize and repair the river banks to prevent erosion.
3. Build stone pitching around the nearby farms so as to avoid the soil erosion from that area.
4. To re-utilize the silt from the dam water in construction of roads, industry use.

4.3.2 Villagers' Voluntary Contribution

We conducted a Gramsabha post the survey, which helped the villagers understand the importance of de-silting and other aspects of the project. We also encouraged the villagers for their participation and contribution, especially loading and unloading of silt. After discussion, the villagers agreed to take the de-silt for road building etc.

4.3.3 Machinery Used

1. Poclain
2. Dumper trucks
3. Tractors

4.3.4 Implementation Process

1. Construction of roads for machinery through farmland.
2. De-silting along with loading and unloading.
3. Side bank repair for the dam.
4. Closure of farmland for road construction.
5. Measurement of dam after construction.
6. Incorporating stone pitch building for the nearby farms in near future.

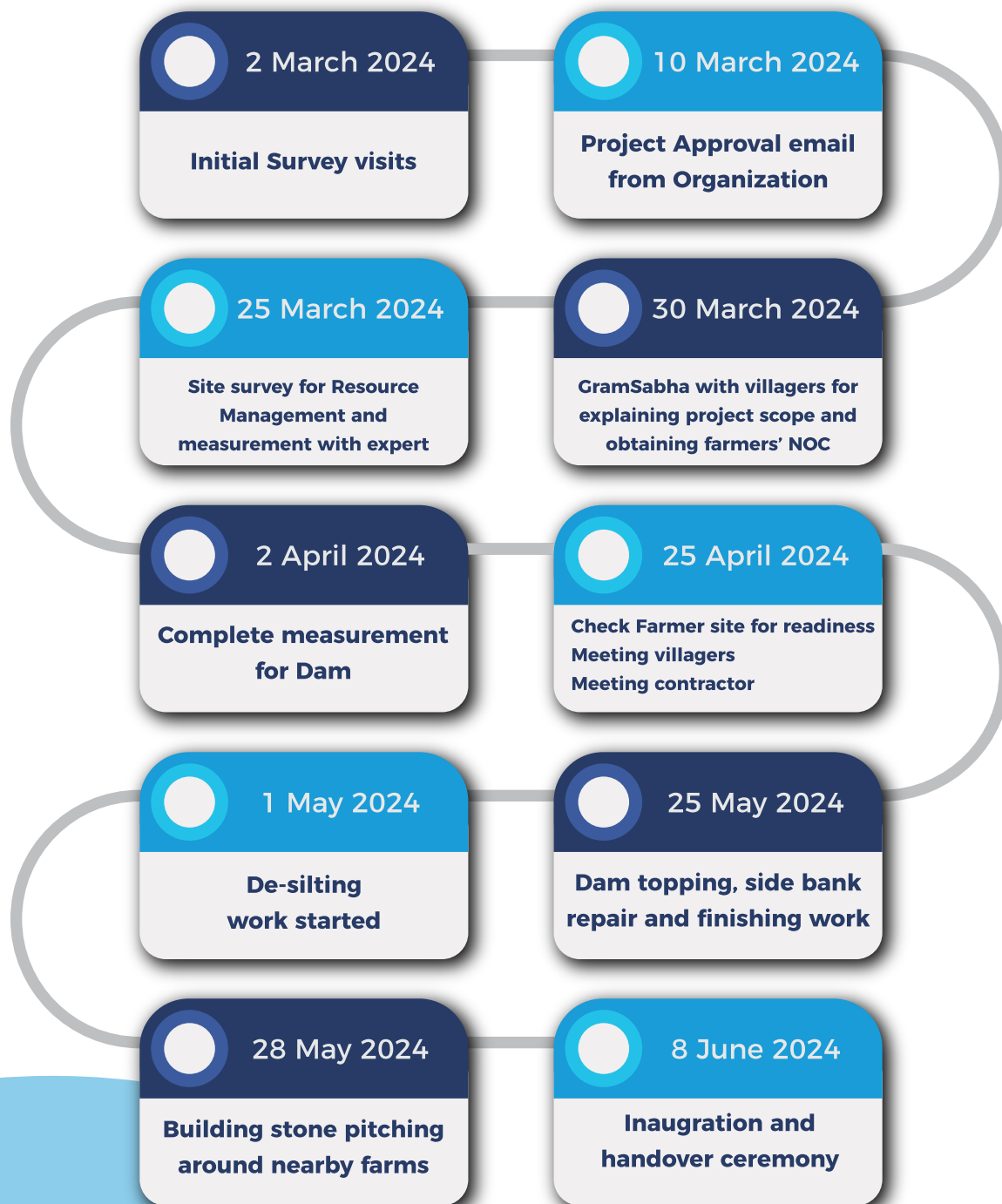


4.4 Documentation

- Request letter from Gram panchayat
- Farmer's form for collection of removed silt
- Project handover Certificate to Ranje village

[illegible]

4.5 Project Progression



Elevated by



Supported by

R.M. Tulpule Charitable Trust

Concept by

दीपतम्भ

पाणलोट क्षेत्र विकास कार्यक्रम - २०२४

गावाचे नाव - रांजे, तालुका - भोर, जिल्हा - पुणे

२०२४ पाणलोट क्षेत्र विकास कार्यक्रम अंतर्गत एम.एन. तुळपुळे चॅरिटेबल ट्रस्ट, पुणे यांच्या आर्थिक सहयोगाला आणि
दीपतम्भ चॅरिटेबल ट्रस्ट, पुणे व ग्रामपंचायत रांजे यांच्या एकत्रित तिचीनास, देखरेख व सहकार्यातून पूर्ण करण्यात आला आहे.
This Watershed management Project is financially supported by R.M. Tulpule Charitable Trust, Pune and
jointly executed by Deepastambha Charitable Trust, Pune with the Grampanchayat of Ranje
Taluka- Bhor, District-Pune

Work Completion Date - 08th Jun, 2024

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4.6 Glimpses



Primary Survey, Survey with Expert, and Measurement and Marking.





Dam Topping

Waste wear Civil Work

Inauguration and Handover Ceremony

Before and After Project work

5. Project Measurement and Impact Analysis

5.1 Measurements

Sr. No.	Village	Project Place	Work	Measurements (in meter)				Total (cubic meter)
				L	B	H	Qty	
1	Ranje Bhor	Shivkalin Dam on Shivganga River	De silting Dam A&B	190	50	3	1	28500
			Stone Pitching Side Bank of dam A&B	131	2	2	2	1048
			Stone Pitching nearby water inlets from Farm into river Dam A&B	125	2	1	5	1250
Total :								30798

5.2 Expected Impact Analysis

Particulars	Benefits
Water storage capacity increased up to	2.5 Cr Litres. Before the project was completed, the dam contained a lot of silting consequently draining all the rain water
Ground water recharge	3.0789 Cr Litres. (i.e., 1000times of total desilt)
Ground water level improvement in nearby water sources	102 Wells, 52 borewells in around 1km area of dam
Agriculture benefits	Over 500 farmers are benefited from this work
Benefits to village	• 1 road was constructed from the de-silted debris material. • 350+ Acre area under recharge. • 150+ farmers can take modern crops like fruits and vegetables. • 2 industries are used de-silt debris for construction base filling. • 10 farmers used this silt for their farm.

6. References

Formulae Used

De-silting Calculation: $\text{length(L)} \times \text{Breadth(B)} \times \text{Height(H)} \times \text{Qty(Q)} = \text{Total Cubic Meter}$

Water Recharge calculation: $\text{Total Cubic Meter} \times \text{Constant (Value-1000)} = \text{Total water recharge in litre}$

External expertise

Water expert: Mr. Prakash Chole (EX. Govt. officer in irrigation department.)

Mobile app / website used

Prioritization for artificial recharge map- Groundwater Surveys & Development Agency (G.S.D.A.)- <https://gsda.maharashtra.gov.in/english/>

Other references

Reference raters - All references for civil work and desilting work rates taken from water conservation department govt. of Maharashtra.

7. Testimonials

"On behalf of our village, I am deeply grateful to RMT and DCT for their remarkable contributions. The de-silting of the dam has brought significant improvements to our community. This project has not only enhanced our infrastructure but also contributed to the overall prosperity and security of Ranje. We sincerely appreciate your support and commitment to our progress."



Shri. Jaykar



Shri. Mahendra Ranjekar

"As a long-time resident of our village, I am immensely thankful to RMT and DCT for their incredible support. The introduction of the de-silting project has transformed our lives. This project has significantly boosted our community's belief in development work. We are truly grateful for your dedication and the positive impact you've made on our village."



8. Future Plans

- Expansion in nearby villages
- Developing a cluster with below objective
 - Watershed management and soil recourse management – Area treatment, Farm bund work, Water way, Grass seedlings, Stone outlet, drainage, Line Treatment, Construction of gabion).
 - Sanitation
 - Tree plantation
- Awareness of water budgeting and drip/sprinkler irrigation implementation.
- Encouraging farmer to cultivate Orchard using drip irrigation to improve livelihood.
- Promoting micro entrepreneurship through dairy, Goatary management, etc.

Project Before & After









Upayn....
...donation in the form of gift



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