

# Project report for construction of dam at Ambadi, Bhiwandi

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## **Executive Summary:**

Triumph Foundation, is a registered charitable trust and is 22 years in service to the weaker sections of the Society in an around Thane District. The Trust is a charitable organization of Rotary Club of Thane Hills, a member of Rotary International, a one of the largest global service organisations.

Triumph Foundation has proved itself to be an organisation known for undertaking large projects and delivering on the same to the satisfaction of the beneficiaries. The projects are conceived and executed by the members of it's parent organisation viz Rotary Club of Thane Hills.

As a part of providing continuous service, RC Thane Hills has identified the need of water conservation in the areas of Thane District within Murbad & Shahapur Taluka. This can be achieved through construction of check dams and holding the rainwater flowing through the drains. The construction of check dams creates a permanent water reservoir and also increases the level of ground water table as accumulated water is absorbed in the soil and this ground water then could be used through bore wells/open wells.

The adivasi farming community can achieve a self-sustaining status as they will be in a position to take a 2<sup>nd</sup> crop of Rabbi and double their current earnings. Increased financial resources then can be utilised for availing better educational facilities and bringing the sustained economic stability in their families. As mentioned above, the creation of water body enables the water to be absorbed in the soil, increasing the underground water table, which can be extracted and used through bore wells. The accumulated water also provides a nearby means of water supply for the daily needs of the farmers. One more indirect benefit of construction of check dams is wage earning to the local workers who will be deployed for construction of check dams.

The proposed project consists of construction of a minor dams at an approximate total cost of Rs. 1.19 Crores. The project will directly benefit 15,000 adivasi villagers on a permanent basis in an around Ambadi and surrounding villages.

## • **About Rotary International (RI)**

Rotary International is one of the largest NGO globally having presence in more than 200 countries, headquartered in Evanston, Illinois, USA. Established in 1905, the organisation serves the community through more than 35,000 Rotary Clubs and more that 1.2 million members throughout the World. Community services are supported through The Rotary Foundation, the charitable trust of Rotary International in the following areas of community service:

- Peace and conflict prevention/resolution
- Disease prevention and treatment

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- Water and sanitation
- Maternal and child health
- Basic education and literacy
- Economic and community development
- Supporting environment



Rotary has been instrumental in eradicating polio worldwide through its immunization program and the efforts are recognized by Bill & Melinda Gates Foundation, who has donated over US \$ 550 million to Rotary for Polio Eradication program. With these sustained efforts, India has been declared a polio free country in 2014. Rotary was one of the NGO that contributed to United Nations charter in 1945.

Since it was founded more than 100 years ago, the Foundation has spent more than \$4 billion on life-changing, sustainable projects. The Rotary Foundation is one of the service organisations working with the lowest administrative costs and was awarded 4 Star Rating for financial stewardship from Charity Navigator, which is the Highest Rating.

- **Rotary Club of Thane Hills (RCTH)**

Established in 1991, RCTH is one of the largest Clubs in RI District 3142 engaged in providing various community service activities since last 31 years. The Club has currently 97 members, who have excelled in various vocations.

Triumph Foundation, a charitable organisation of RCTH, has delivered many notable projects since its establishment in and around Thane District. To note a few:

1. Construction of earthen dam at Shirol, near Shahapur
2. Vocational training centre aimed at providing occupational support to mentally challenged children at Holy Cross High School, Thane.
3. Modernization of crematorium at Wagle Estate, Thane
4. Development of computer and science lab and overhead water tank at Adarsha Vidyamandir, Adivasi school at Utavali village, Taluka Wada
5. Setting up and running of state of the art blood bank and thalassemia day care centre at Thane jointly with Thane Municipal Corporation
6. Construction of over 1000 toilet blocks under the project brand name of Right To Go in Sogav, Nandwal, Dahigaon and Aghai villages near Shahapur

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7. Upgradation of school at Dadade Village, Vikramgad, Dist. Palghar
8. Construction of 19 check dams in Murbad & Shahapur, Dist. Thane
9. Conceiving the idea of providing a set up for using computers by visually impaired children and implementing the installations in 42 schools for visually impaired children. This is Pan India project and every year, we are implementing the project under brand name VIRTUAL EYE in various states.
10. Providing support in COVID prevention and treatment in form of supplying kits, sanitizers, oxygen concentrators and food grains.

The Foundation is also engaged in continuously reaching out to the needy community through various medical check-up camps for elderly and disabled, eye check camps and cataract surgeries, organizing sports events for mentally and physically challenged children, supporting the paediatric heart surgeries, tree plantations activities and blood donation drives throughout the year. We have also added the projects of supplying & installing sanitary pads vending machines in schools under brand name HAMARI PARI.

Triumph Foundation is a registered trust under Public Trust Act and Bombay Public Trust Act and the contributions are exempted from income tax u/s 80G of the Income Tax Act. The Trust is managed by the Board of Trustees selected from the members of Rotary Club of Thane Hills.

### **HISTORY:**

The villagers with the help of Local self-Government constructs Vanarai Bandanas across the non-perennial stream passing through the fields. Vanarai Bandharas are small temporary Dams built by filling empty cement / Polythene Bags with sand and arranging them in a form of wall 1.00 meter High.

Because of the short life (1 Year) of Vanrai Bandharas the villagers are compelled to perform this task every year at the end of Mansoon.

The local farmers are by now educated to use this arrested water for cultivation of the land in the off season ie. months of October to March. Traditionally they grow only one crop a year usually Paddy (Rice).

### **Proposed solution**

Small permanent dams built of plain cement concrete, are found to be a suitable method of Rainwater Harvesting in the rural parts of Maharashtra. Good numbers of projects (approximately 400) are executed by Rotary in Thane & Raigad Districts till now, and have shown good results.

The Tangible benefits of Constructing Permanent check dams are:

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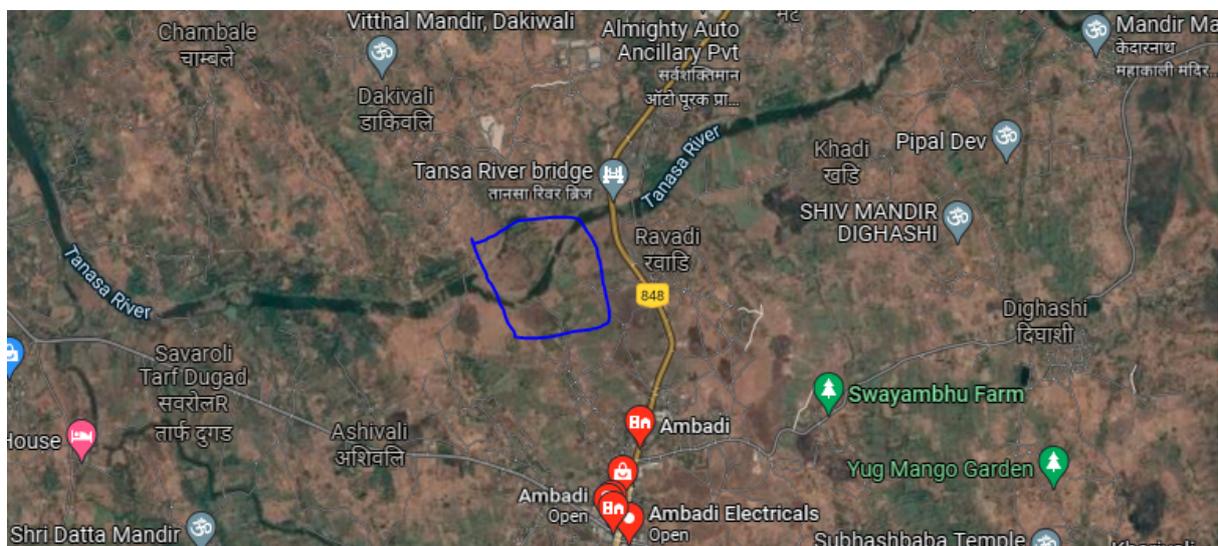
- It raises the ground water table of the area surrounding the check dam (Radius of 0.50 Km) which increases the yield of the bore wells and open wells falling in this zone. This enables the villagers to get drinking water for them & also for the live-stock in the summer.
- Farmers can cultivate the fields for a second crop usually cash crops like vegetables, flowers, barley etc. This will increase the family income substantially, increasing the standard of living (increase of Rs. 10,000/- per acre per year). Each check dam can hold water to the extent of approximately 25 Lakh litres and an area of @ 30 acres can be irrigated.

The intangible benefits are outlined below:

- The scarcity of work and water compels the local population to migrate each summer in search of work to the cities. If water and work is provided by this project, such migration could be avoided.
- Children are deprived of continuous education due to migration. Lack of water also causes health & hygiene problems amongst them.
- The local workers get the earnings through working on the check dams construction sites and earn during non-agricultural period.

### Proposed Water conservation program – Construction of minor dam at Ambadi

RC Thane Hills have been approached by Group Gram Panchayat of Ambadi and also by Gram Panchayat of Zidke. The proposed project will be executed on the overflow of Tansa river in Ambadi in Bhiwandi Taluka of Thane District. Ambadi is situated at a distance of 36.2 KM from off Kalyan Junction on NH 160 & NH 848. The overflow of Tansa river passes through Ambadi and this overflow is at present under-utilized because of lack of irrigation projects and Water Conservation Works. During the months from March to May the villagers face acute shortage of Drinking water.



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Post completion, the concrete dam is expected to create a water reservoir upto a stretch of 1 km resulting in approximately 1050 Million litres of water storage and approximately will support 10 Ha of irrigable area.

### **BENEFICIARIES:**

#### **Direct:**

- Approximately 12,000 villagers will be benefitted due to availability of water in the Rabbi crop season.
- Approximately, 500 adivasi fishermen will be benefitted as they will be able to do fishing for longer time and improve their earnings.
- Water will be available for cattles

#### **Indirect:**

- Approximately 200 villagers will earn daily wages during construction of dam by working on the site.
- Increase in the yield of surrounding borewells and open wells

### **Site Visits:**

We have organised site visits on 9<sup>th</sup> October, 24<sup>th</sup> October and 18<sup>th</sup> December in RC Thane Hills members having requisite experience in the fields of large civil works, architecture and public works have participated. The site photographs are enclosed.



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It can be seen that the water level has reduced considerably since our 1<sup>st</sup> visit. On the date of technical measurements on 16<sup>th</sup> January, 2022, the water levels are further reduced and almost dried as on 5<sup>th</sup> May, 2022:

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### **Work done till now:**

1. We have approached Water conservation department under Zilla Parishad, Thane. The Dy Engineer, Irrigation department, Z P Subdivision Bhiwandi have undertaken the survey and 1<sup>st</sup> cut cost estimates.

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2. These have been validated and revised by the appointed civil consultant who is licensed engineer with Public Works Department.
3. We have received for NOC from Minor Irrigation department, Z P, Thane.

### Steps ahead:

1. We are approaching the corporate CSR for tying up for required funds to construct the concrete dam.
2. Post organising the funds, we will appoint the contractor through bidding process.
3. Supervision will be done by appointed project consultant and will be visited during the constructions.
4. The payment to the contractors will be done after certification by Project consultant through account payee cheques / electronic funds transfers.
5. All the appropriate taxes will be deducted/paid as applicable.

### COST:

The costs worked out based on technical measurements of the site, the detailed Bill of Quantities have been prepared. The detailed BoQ is enclosed. The summary of costs is as under:

| Sr No | Particulars of Cost   | Amount (Rs)        |
|-------|---|--------------------|
| 1     | Concrete Bandhara – construction cost                                   | 93,95,615          |
| 2     | Royalty   | 392,843            |
| 3     | Construction cost + royalty   | 97,88,458          |
| 4     | G.S.T. on Project Cost @ 18% on Rs. 93,95,614 (total cost excl Royalty) | 16,91,211          |
| 5     | Sub-total   | 1,14,79,669        |
| 6     | Work Insurance Policy... 0.5% on (3) above                              | 48,942             |
| 4     | Professional fees of PMC  | 1,50,000           |
| 5     | Monitoring of projects by RC Thane Hills                                | 25,000             |
| 6     | Contingencies (3% of construction cost)                                 | 2,81,868           |
|       | <b>GRAND TOTAL</b>  | <b>1,19,85,479</b> |
|       | <b>GRAND TOTAL (in US \$ ~ INR76)</b>                                   | <b>157,704</b>     |

### Key timelines & milestones

The project needs to be undertaken during summer season when the waterflow is completely dried up. The construction of dam will take approximately 2 months. We propose to start by mid-March, 2022 and aim to complete by end of May, 2022.

### Mode of Funding

We proposed to execute this project through Rotary's global grant program and requesting foreign clubs and Districts to partner with us in this noble project.

### Sustainability & Monitoring

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The dams require very low maintenance, mainly removing the sludge from the slit once in every two years. Once the construction is completed, the project is handed over formally to the respective Gram Panchayats for regular maintenance, which they agree through an acceptance letter. Required training will be provided to local contractors to undertake the same.