

Completion Report of

"Clean Water for Bright Futures: Empowering Marginalized Dalit Communities with Safe Drinking Water and Hygiene - India"



Sponsored by :



Implementing Partner:



**Sri K.Pitchi Reddy Educational and Welfare
Society, Kadapa, India.**

I. Introduction :

Title of the Project :		"Clean Water for Bright Futures: Empowering Marginalized Dalit Communities with Safe Drinking Water and Hygiene - India"	
Organisation (Partner) Name and Address:		Sri K.Pitchi Reddy Educational & Welfare Society (SPREAWS) D.No.41/1144, Sankarapuram, Kadapa 516002, Kadapa District, Andhra Pradesh State, INDIA.	
Partner Contact:		Mr. C. S. Sajid Hussain	Report Date: 07-06-2024
Partner Contact Title:		President	
Country:		India	
Email:	pitchireddyorg@yahoo.co.in	Website:	www.spreaws.org
Donor:	Help A Village Effort (H.A.V.E.) Canada	Project Duration	From 05/02/2024 To 05/06/2024
Status: This project is now successfully completed. This report shows how project funds were spent and the impact project funds have made to the beneficiary communities.			

II. Executive Summary :

The "Clean Water for Bright Futures" project was implemented in 6 villages of Kadapa District, Andhra Pradesh, India. The primary objective was to provide sustainable access to clean and safe drinking water for marginalized Dalit communities by installing borewells. The project aimed to improve the health, education, and socio-economic conditions of approximately 5,850 individuals, including women, men, children, and the elderly.

Key Achievements :

- 1) **Borewell Installation:** Successfully installed six borewells in the targeted villages, ensuring a sustainable source of clean water.
- 2) **Community Impact:** Approximately 890 families (5,850 individuals) now have reliable access to safe drinking water, significantly reducing waterborne diseases and health risks.
- 3) **Empowerment of Women and Girls:** Freed women and girls from the daily task of fetching water, allowing them to pursue education and other productive activities.
- 4) **Improved Health and Hygiene:** Conducted hygiene awareness programs that emphasized the importance of handwashing with soap, leading to a substantial reduction in waterborne illnesses.
- 5) **Economic Benefits:** Enabled community members to dedicate more time to income-generating activities, contributing to poverty alleviation.

The "Clean Water for Bright Futures" project has brought transformative change to the lives of marginalized Dalit communities in Kadapa District. The successful installation of borewells has ensured reliable access to clean drinking water, improved health outcomes, and empowered women and girls. This project stands as a testament to the positive impact of collaborative efforts between **SPREAWS** and **HAVE Canada**, fostering sustainable development and a brighter future for these communities.

III. Project Background :

The "Clean Water for Bright Futures" project was launched in response to the longstanding issue of water scarcity in six remote villages within the Kadapa District of Andhra Pradesh, India. These villages are characterized by their rural, tribal, hilly, and isolated settings, where access to essential amenities and public services is limited. The residents of these villages primarily belong to economically disadvantaged communities.



Image 1: Villagers walking long distances to collect water.



Image 2: A woman collecting water from an open pond.

Challenges Faced by the Target Villages:

Prior to the implementation of this project, the communities in these villages endured various hardships related to water scarcity:

Long and Arduous Walks for Water:

The residents, especially women and young children, had to trek long distances, often covering 3 to 4 kilometers daily, to collect water from distant sources. This physically demanding and time-consuming task posed a significant burden on their daily lives, as depicted in the attached image [Image 1].

Unhygienic Water Sources:

In many cases, residents resorted to fetching water from contaminated sources such as open wells, canals, ponds, and agricultural wells. This practice posed serious health risks, including waterborne diseases like typhoid, cholera, diarrhea, dysentery, jaundice, and malaria. The attached image [Image 2] illustrates the precarious conditions under which villagers collected water.

Struggles of Women and Girls:

Women, in particular, were burdened by the responsibility of fetching water. They carried heavy water containers on their shoulders, hips, or overhead, often walking for hours each day to meet their families' water needs. This physically taxing routine took a toll on their health and well-being, as shown in the attached images.

Importance of the Project:

In light of these challenges, the "Clean Water for Bright Futures" project was not only vital but aligned with the United Nations Development Programme's Sustainable Development Goal #6. The project aimed to ensure access to clean water and basic sanitation for these communities, addressing their pressing need for safe and reliable drinking water sources.

In the following sections of this Completion Report, we will discuss the comprehensive approach taken to alleviate these challenges, the specific actions implemented, and the remarkable outcomes achieved by this project.

IV. BENEFICIARIES :

The main beneficiaries of the project are the marginalized, impoverished scheduled caste Dalits and Scheduled Tribe communities in 6 villages of Kadapa District of Andhra Pradesh. They are daily wage labourers who earn their living in agricultural field work, construction work, domestic work, and some of them go to nearby towns in search of their livelihood.

The beneficiaries are 890 families i.e., 5,850 individuals from these 6 rural communities in Kadapa District, Andhra Pradesh, India.

Sl. No.	Name of the village	Number of beneficiaries
1.	Godlapalli Dalit colony	975 residents are benefitted in this village
2.	S.G.Palli S.C.colony	970 residents are benefitted in this village.
3.	Ramanjaneyapuram ST colony	965 residents are benefitted in this village.
4.	Weludurthipalle B.C.colony	955 residents are benefitted in this village.
5.	VN Palli Harijanawada	1020 residents are benefitted in this village.
6.	Matamkottapalle Dalit colony	965 residents are benefitted in this village.
	Total	5,850

V. PROJECT IMPLEMENTATION DETAILS :

1) Project Planning and Management :

Mr.Ratnaswamy appointed as Project Manager to oversee comprehensive project planning, site selection, budget management, and community engagement. The Project Manager was responsible for coordinating all aspects of the project, from hydro-geological surveys to the final installation of borewells.

2) Hydro-Geological Surveys :

Qualified geologists conducted surveys to identify suitable water points with ample underground water deposits. Sites were selected based on convenience for the local residents and safety from contamination, with active community participation in the identification process.

Through these underground water surveys, our project took its initial steps toward providing clean and safe drinking water to these underserved communities. The selected sites were chosen to ensure not only the availability of water but also its purity, aligning with the project's commitment to improving the overall health and well-being of the villagers. These surveys were an essential foundation for the subsequent phases of the project.

3) **DRILLING OF BOREWELLS :**

The next crucial phase in the implementation of the project involves drilling activities. This phase, executed by the SPREAWS committee, plays a pivotal role in bringing clean and safe drinking water to the targeted villages.

Selection of Reputable Bore-well Drilling Company: To ensure the success of this phase, we engaged the services of a well-regarded Bore-well Drilling Company with a proven track record. This decision was instrumental in maintaining high standards and adherence to best practices throughout the drilling process.



Please "Click" on the following video link to see the videos of Drilling activity.

https://www.youtube.com/watch?v=PW6_SJMJUvw

Depth and Casing Installation: The drilling activities commenced based on the findings of our earlier hydro-geological surveys, which identified the ideal locations for bore-well installation. These drilling activities were carried out with precision and care, reaching depths of 500 feet or more beneath the identified ground point. It's important to note that this depth was determined based on the specific characteristics of the hydro-geological surveys, ensuring that the wells would tap into substantial underground water reserves.

The installation of 180 mm diameter PVC casing pipes up to a depth of 80 feet during the drilling process played a pivotal role in our project. These casing pipes provided essential structural support in areas characterized by 'loose soil,' ensuring the well's integrity and preventing borehole collapse. They were equally instrumental in guaranteeing the overall stability of the well, shielding it from disturbances and shifts in the surrounding soil. Additionally, these casing pipes acted as a protective barrier, safeguarding the well against external pressures and forces that could compromise its functionality. Beyond the 80-foot mark, where soil conditions transitioned to a harder consistency, the installation of PVC casing pipes was limited, optimizing their use while maintaining long-term well sustainability.

We have successfully completed the drilling activity in 6 villages. The drilling activities represent a significant milestone in our project, as they marked the physical realization of the bore-wells. This phase's attention to detail and commitment to ensuring the well's structural integrity are crucial to the well's long-term functionality and the provision of clean water to the communities we serve.

4) CONSTRUCTION OF PLATFORMS AROUND THE BOREWELLS :



Please “Click” on the following video link to see the videos of Platform construction work.

<https://www.youtube.com/watch?v=JTdZGy6FCKI>

Following the successful completion of borehole drilling and the initial emergence of water, our project seamlessly transitioned to the critical phase of platform and water run-off channel construction. This phase represented a fundamental aspect of our efforts to provide clean and accessible water to the communities we serve. To ensure the structural stability of the borehole, we employed a skilled team using materials such as bricks, gravel pieces, cement, concrete, and rods to construct a robust platform surrounding the borehole. This platform served not only to reinforce the well's casing but also to provide a stable foundation for subsequent operations. Concurrently, the construction of the water run-off channel was initiated, employing bricks and reinforced concrete to ensure its strength and longevity. The channel was meticulously designed to optimize efficient water drainage, taking into consideration the potential for ground movement. The water run-off channel was configured to direct water flow toward a designated seepage soak way, strategically located to accommodate both water and sanitation runoff. This soak way was constructed to preserve long-term functionality. This phase was instrumental in establishing the necessary infrastructure to ensure the availability and sustained accessibility of clean water for the communities, contributing to improved well-being and quality of life for the villagers.

5) INSTALLATION OF G.I.PIPELINES AND HAND PUMPS :

The installation of G.I. pipelines and the hand-pumps marked a significant step in our project's implementation. This crucial phase involved the meticulous assembly of essential bore materials, including a pedestal, cylinder assembly, G.I. pipes (Galvanized Iron) with connecting rods, couplings, water tank, head assembly, and handle assembly. Our skilled technician, supported by local youth volunteers from the respective villages, ensured that these components were installed with precision to guarantee the efficient operation of the bore-well.



Please “Click” on the following video links to see the videos of GI pipes inserting work.
<https://www.youtube.com/watch?v=QrgNbJKefFM>

The installation process commenced with the attachment of the cylinder assembly to a 32 mm diameter, 10 feet long G.I. pipe. This assembly was carefully lowered into the drilled borehole, and additional G.I. pipes were inserted one by one, securely connecting each G.I. pipe to the next, creating a seamless depth comprised of up to 11 pipes. Following this, the third plate, water tank, head assembly, and handle assembly were methodically installed in succession.

Upon the completion of this comprehensive bore-well components fitting process, the installation stood ready for use. When the handle rod was operated, the up-and-down motion efficiently drew water from the depths of the drilled well through the cylinder assembly, into the G.I. pipes and water tank, ultimately resulting in a steady flow of water from the bore-well pump. This meticulous installation guaranteed reliable access to clean water for the community, significantly enhancing their overall well-being and quality of life.

6) Completion of 6-Borewells Installation and Community Utilization :



After meticulous installation efforts, the borewells in the 6 target villages are now actively meeting the community's water needs. This achievement represents a significant milestone in the project's mission to enhance the quality of life and well-being of the local population. Reliable access to clean and potable water has been established, addressing a fundamental necessity for the village residents. The borewells stand as a symbol of our commitment to providing a sustainable and dependable source of clean water to the community.

PHOTOS & VIDEO CLIPS OF 6 COMPLETED BORE WELLS:

1. Godlapalli Dalit colony :



"Community members and children celebrate the successful installation of a new borewell, providing clean and safe drinking water, as part of the 'Clean Water for Bright Futures' project, supported by HELP A VILLAGE EFFORT (HAVE) Canada."

"VIDEO"

<https://www.youtube.com/watch?v=2VAGN9-8OTI>

2. S.G.Palli S.C.colony:



"Villagers joyfully inaugurate a new borewell, installed as part of the 'Clean Water for Bright Futures' project, supported by H.A.V.E, Canada, bringing clean and safe drinking water to their community."

"VIDEO"

<https://www.youtube.com/watch?v=hLzkbmPF2go>

3. Ramanjaneyapuram ST colony:



Residents of a Ramanjaneyapuram ST colony village celebrate the inauguration of a new borewell, bringing essential clean and safe drinking water to their community.

"VIDEO"

<https://www.youtube.com/watch?v=L4u-LXlpZDw>

4. Weludurthipalle B.C.colony :



Villagers joyfully gather around their newly installed water pump, a project supported by H.A.V.E. Canada, bringing fresh hope and clean water to their community.

"VIDEO"

<https://www.youtube.com/watch?v=N6w01qAjo3k>

4) VN Palli Harijanawada:



"Community members, including excited children with balloons, gather around their newly inaugurated water pump, thanks to the H.A.V.E. Canada initiative, ensuring access to safe drinking water."

"VIDEO"

<https://www.youtube.com/watch?v=3Wbxn0hEUkc>

6. Matamkottapalle Dalit colony :



Women and men are happily waving their hand around the borewell.

"VIDEO"

<https://www.youtube.com/watch?v=UKFAcvKjgF0>

VI. SUSTAINABILITY & COMMUNITY OWNERSHIP :-

In each village our organization is formed 1 Village Water User Committee (WUC) which consists 5 persons mix of women and men. Thus we have formed 6 WUCs in 6 villages. They will render their services voluntarily for the sustainability of the project. On completion of the borewell installation, the well is handed over to the community and they are



One of the Village Water User Committees.

guided on the creation of a Water User Committee (WUC). The local WUC members will voluntarily render their services and are responsible for monitoring, maintaining and sustaining their own borewell to ensure the sustainability of the project. WUC members will use the water user funds collected by hiring technicians to carry out any repairs required in the future.

VII. AWARENESS GENERATION ABOUT HEALTH & HYGIENE:



The photo showing the Health Worker is teaching Hygiene education at the houses of the people.



The Health worker is giving training on Soap Hand wash step by steps.

Mrs.Vimala, SPREAWS Health Worker visited people's houses and conducted health and hygiene awareness and soap hand-washing training.

The SPREAWS health worker went door-to-door, met with household members and created awareness about the prevention of viral, fatal, infectious and acrimonious diseases. Villagers are educated on how the different diseases occur and spread due to poor hygiene and sanitation. The 7-step hand washing technique endorsed by the CDC and World Health Organisation (WHO) was followed.

VIII. PROJECT IMPACTS :

PAST :



Prior to installation of Borewells, the women have to walk long distance upto 3 to 4 KMs to bring dirty water from the river/lake/open wells.

PRESENT :



Now after installation of Borewell near to their homes they are easily getting clean water from the newly installed hand pump Borewells.

Impact Areas:

The project is expected to have significant positive impacts in four key areas: (i) Access, (ii) Health, (iii) Education, and (iv) Labour Force Participation and Hours Worked.

(i) Access:

- Clean and safe water has been provided to a total of 890 households, benefiting approximately 5,850 people, including school children, across the 6 project villages.
- On average, villagers now walk only 300 meters to access water, compared to the arduous 3-4 kilometer treks they endured before the borewell installation.

(ii) Health:

- The incidence of waterborne diseases has significantly decreased, improving the overall health and well-being of village residents.
- Villagers can now practice good hygiene more effectively, such as regular handwashing, contributing to better health outcomes.

(iii) Education:

- The project has led to reduced absenteeism among approximately 1,400 school children of all ages, enabling them to attend school regularly and punctually.
- With access to clean water nearby, children can focus more on their studies instead of spending hours collecting water.

(iv) Labour Force Participation and Hours Worked:

- The project has resulted in the saving of 4 to 5 hours daily that were previously spent on water collection. This time can now be used for productive work on family farms or businesses, contributing to poverty reduction.
- Approximately 1,850 men and women are now able to participate in income-generating activities, thereby improving household earnings and overall economic stability.

IX. SUCCESS STORY QUOTES :

1. Godlapalli Dalit colony :

"My name is Thulasi, and I am 18 years old. I live in Godlapalli village and am currently studying in the 12th standard. Before the installation of the new borewell, my family and I had to walk several kilometers every day to fetch water from a distant and often unsafe source. This not only took a toll on our health but also affected my studies, as I spent hours each day just collecting water.

*The installation of the borewell in our village has been a blessing. We now have easy access to clean and safe drinking water right within our community. This has drastically improved our quality of life. I no longer have to miss school to fetch water, and I can focus on my education and my future goals. The time and energy saved have allowed my family to engage in more productive activities, improving our overall well-being. I am deeply grateful to the 'Clean Water for Bright Futures' project and **HELP A VILLAGE EFFORT (HAVE) Canada** for bringing such a positive change to our lives. This borewell has not just provided us with water; it has given us hope, health, and a brighter future."* — Miss Thulasi, 18 years old, Godlapalli village.



Miss.Thulasi.

2. S.G.Palli S.C.colony village :

"My name is Rajasulochana, and I am 34 years old. I live in S.G.Palli S.C. colony village with my husband, who is a farmer, and our two daughters. Before the installation of the new borewell, accessing clean water was a daily struggle for us. We had to walk long distances to fetch water from unreliable and often contaminated sources. This not only took a lot of our time but also affected our health and daily activities. The new borewell in our village has been a game-changer. Now, we have easy access to clean and safe drinking water right within our community.



Mrs.Rajasulochana

*This has brought immense relief to our family and significantly improved our quality of life. I can now spend more time taking care of my daughters and supporting my husband with our farming activities, instead of spending hours fetching water. The borewell has also had a positive impact on our health, as we no longer suffer from waterborne diseases. We are deeply grateful to the donors of Canada who supported this important 'Clean Water for Bright Futures' project through **HELP A VILLAGE EFFORT (HAVE) Canada** for making this possible. This borewell has not only provided us with water but has also brought hope and a better future for our family and the entire community."* — Mrs. Rajasulochana, 34 years old, S.G.Palli S.C. colony village.

3. Ramanjaneyapuram ST colony :

"My name is Gopamma, and I am 15 years old. I live in Ramanjaneyapuram ST colony village and am currently studying in the 10th standard. Before the installation of the new borewell, my mornings were consumed by the daunting task of fetching water from distant, often contaminated sources. This daily chore not only exhausted me but also took precious time away from my studies and other activities.

Since the new borewell was installed, my life has changed significantly. I now have easy access to clean water right in my village. This has not only lightened the physical burden on me and my family but also allowed me to dedicate more time to my education. I can now start my day focusing on my studies, knowing that clean water is just a few steps away.



Miss.Gopamma

The availability of clean water has also brought a sense of relief and security to my family. We no longer worry about waterborne diseases, and our overall health has improved. I am deeply thankful to the **HELP A VILLAGE EFFORT (HAVE) Canada** for bringing this invaluable resource to our community. This borewell has not just provided us with water; it has given us the gift of time, health, and a brighter future."

— Miss Gopamma, 15 years old, Ramanjaneyapuram ST colony village

4. Weludurthipalle B.C.colony :

"We are Krishnaveni and Mounika, sisters living in Weludurthipalle B.C. colony. We both work in a local garment selling shop. Before the installation of the new borewell, our daily routine involved spending hours fetching water from distant sources, which were often unreliable and unsafe. This strenuous task left us exhausted and took away valuable time that we could have spent working or with our families.

The new borewell has truly transformed our lives. Now, we have easy access to clean and safe drinking water right in our village. This has significantly reduced our daily workload and allowed us to focus more on our jobs and our families. The time saved from not having to fetch water can now be used productively, improving our overall well-being and quality of life.



Krishnaveni and Mounika

Additionally, we participated in the hygiene awareness program organized by SPREAWS. We learned a lot about the importance of hygiene and have started following better hygiene practices. This has not only improved our personal health but also that of our families and community. Our health has improved, and we no longer have to worry about waterborne diseases. This project, along with the hygiene education, has given us the opportunity to live better and healthier lives. We are extremely grateful to the supporters of 'HELP A VILLAGE EFFORT (HAVE) Canada' for this incredible gift."

— Mrs. Krishnaveni, 34 years, and Mrs. Mounika, 32 years, Weludurthipalle B.C. colony

5. VN Palli Harijanawada:

"My name is Marthamma, and I am 42 years old. I live in VN Palli Harijanawada and earn my livelihood by selling fruits and vegetables. Before the installation of the new borewell, accessing clean water was a daily challenge. I had to walk long distances to fetch water from unreliable and unsafe sources, which drained valuable time and energy that I could have dedicated to my business and family. The new borewell has transformed my life and the lives of many in our village. With easy access to clean and safe drinking water right in our community, I can now focus more on my business. This has led to increased productivity and better income, allowing me to provide more for my family. Our community is committed to looking after this borewell with the utmost care to ensure it serves us for a long time.



Mrs. Marthamma

Moreover, I participated in the hygiene awareness program organized by SPREAWS, where I learned the importance of maintaining good hygiene practices. These lessons have greatly improved our health and well-being, reducing the risk of waterborne diseases in our community. We are deeply grateful to the HELP A VILLAGE EFFORT (HAVE) Canada for donating borewell in our village.

— Mrs. Marthamma, 42 years old, VN Palli Harijanawada

6. Matamkottapalle Dalit Colony :

“Mrs. Savithri, a resident of the Matamkottapalle Dalit Colony, has faced numerous challenges in her daily life. As a daily wage labourer, she struggled to balance her work and family responsibilities. Fetching water from distant sources was a time-consuming and exhausting task, leaving her with little time to support her family.

Impact of the Borewell Project:

Thanks to the borewell project, Mrs. Savithri's community now has reliable access to clean water. This has transformed her life and the lives of her family members.



Mrs. Savithri

Economic Impact:

Increased Productivity: With the borewell providing clean water, Mrs. Savithri can now focus more on her work in the agricultural fields, ensuring a better future for her children.

Financial Stability: The additional time and energy saved from not having to fetch water has improved her financial stability and ability to support her family.

Social and Family Impact:

Health and Hygiene: Mrs. Savithri has actively participated in hygiene awareness programs and has adopted better hygiene habits for her family and herself. This has significantly improved their health and well-being.

Community Engagement: The Village Water User Committee has been doing an excellent job in maintaining the borewell, ensuring it remains in good order for a long time. This has brought hope and prosperity to the community.

Words of Gratitude:

"I am deeply grateful to the borewell project for providing our community with reliable access to clean water. This has changed our lives in ways we never imagined. I used to spend hours fetching water from distant sources, which was exhausting and left me with little time to work and support my family. Now, with water readily available, I can focus more on my work and ensure a better future for my children. The Village Water User Committee has been doing an excellent job in maintaining the borewell, ensuring it remains in good order for a long time. This borewell has brought hope and prosperity to our community, and we are deeply grateful for this invaluable resource."

-- "Mrs. Savithri, 42 years, Matamkottapalle Dalit Colony.

X. Challenges Faced:

The implementation of the project in 2024 also encountered its own set of challenges and obstacles. These challenges were primarily related to the specific conditions and dynamics of the target areas.

- 1) **Technical Difficulties:** During the installation of the borewells, technical issues such as drilling through hard rock layers and maintaining the integrity of the borewell structure presented challenges that required expert intervention and additional resources.
- 2) **Sustaining Community Motivation:** Sustaining community motivation and involvement over the course of the project was another challenge. Ensuring that community members remained engaged and committed to maintaining the borewells required continuous communication and reinforcement of the project's long-term benefits.

Addressing Challenges:

To address these challenges, the project team implemented several strategies:

- 1) **Technical Expertise and Resources:** The project team secured additional technical expertise and resources to overcome the technical difficulties encountered during borewell installation. This included bringing in specialists to handle drilling through hard rock layers and ensuring the structural integrity of the borewells.
- 2) **Community Engagement and Support Programs:** To sustain community motivation, the project team organized regular community meetings, training sessions, and support programs. These initiatives aimed to reinforce the importance of the borewells, provide education on their maintenance, and celebrate milestones to keep the community engaged and motivated.

In facing these challenges, the project's success was driven by the adaptability, expertise, and perseverance of the project team, along with the unwavering support and commitment of the local communities. These challenges were viewed not as impediments but as opportunities to innovate and strengthen partnerships, ultimately leading to the successful implementation of this critical initiative.

XI. Acknowledgements:

We extend our heartfelt gratitude to the Board Members of **Help A Village Effort (H.A.V.E.), Canada**, for affording our SPREAWS Team the invaluable opportunity continuously to serve the needy communities. We also wish to express our appreciation to the Water User Committees, the program implementation team, local leaders, and our beloved beneficiaries for their unwavering moral support, which played a pivotal role in the successful implementation of the project.

C. S. Sajid Hussain

(C.S.SAJID HUSSAIN)

President

SRI K. PITCHI REDDY EDUCATIONAL
AND WELFARE SOCIETY

(Regd.No. 544/1984)

D.No. 41/1144, Sankarapuram,
KADAPA- 516 002. (A.P.)