



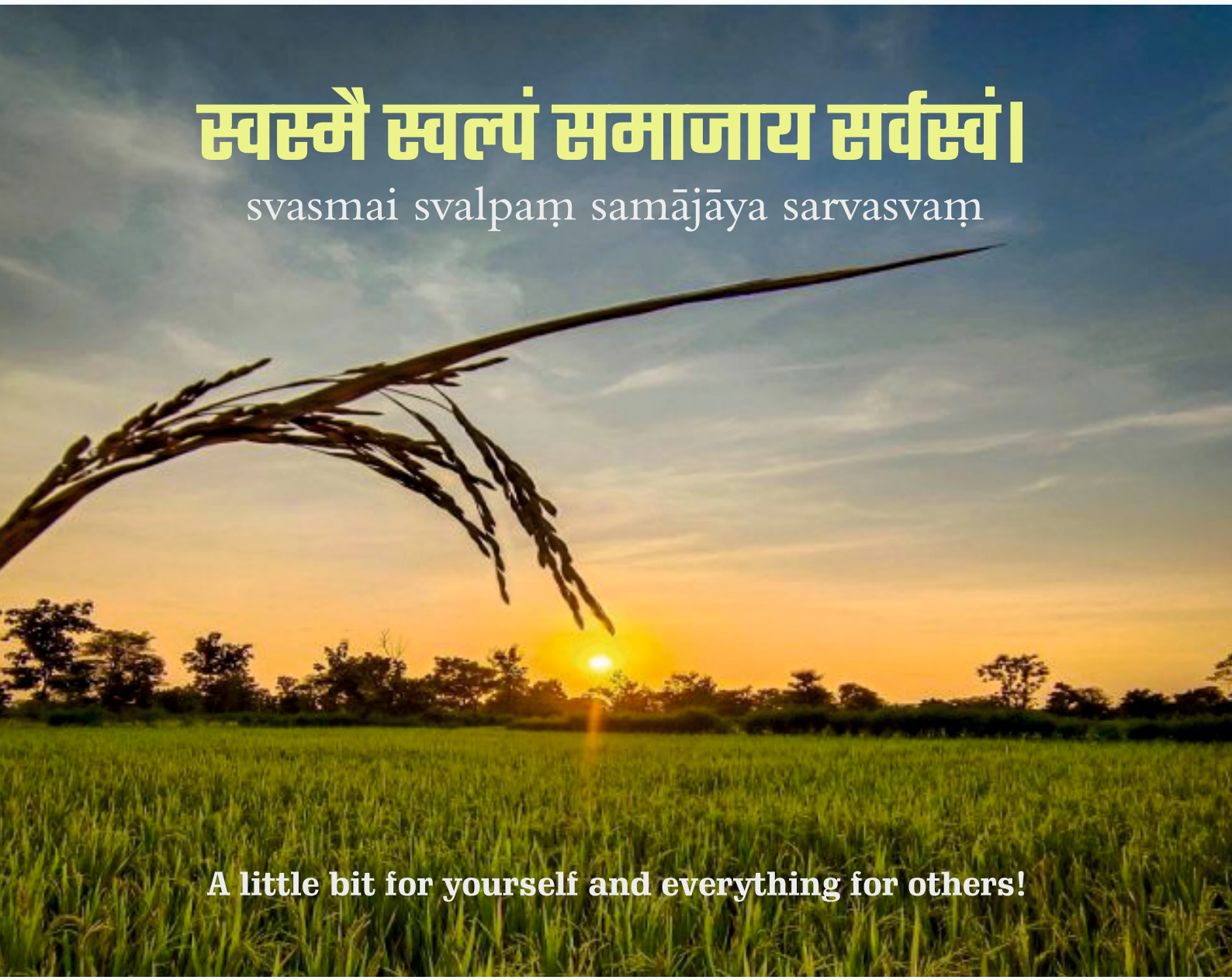


Fulfilling Needs of Hanmantwadi the Sustainable Way

Sponsored By

Howden
A Chart Industries Company

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Project Executed By

दीपस्तंभ

CONTENTS

Confidentiality.....1

Release History 1

1 Acknowledgment 2

2 Introduction to Deepastambha 3

3 About Gramarthan.....5

4 Project details.....6

4.1 Background.....6

4.2 Objectives 7

4.3 Research Work.....8

4.4 Documentation.....11

4.5 Project progression.....21

4.6 Glimpses 22

4.7 Impact Analysis.....27

4.8 Benefits.....28

4.9 Future Plan.....31

5 References.....31

6 Testimonials.....Back Cover

CONFIDENTIALITY

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	29th March 2023	LS, AS

1. ACKNOWLEDGMENT

It has been a wonderful experience working with team Howden under their CSR initiative. We thank the Management of Howden for their magnificent financial contribution. We thank our well-wishers and guides for their aspiring guidance, invaluable constructive criticism, and friendly advice during the project work.

We are happy to have a team of Hanmantwadi villagers, and thank their respective leaders and coordinators for their time, efforts, and outstanding work. Finally, we thank all the Deepastambha Charitable Trust volunteers for their unconditional support throughout the project. We really appreciate volunteer feedback as it helps us to improve the overall quality of our functions as a charitable trust.









2. INTRODUCTION TO DEEPASTAMBHA

Established

In the year 2008

Mission

To integrate the 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 cause
- Eco-Paavitrya - Environmental sustainability while celebration
- Conserve To Serve - Natural Resource conservation
- Encourage, Engage, Educate and Empower Children -
  - Skool-Falak
  - Skool-Sansad
  - Skool-Kit preparation / Study Material making for slow learners
  - Awareness on Child Abuse
  - Skill-set development
- Gramarthan - Making village self-contained
- Niramayaa - Health and Hygiene awareness Organization visits – Orphanages, Old age home, Special children, HIV positive children, Cancer patients etc.
- Other weekly activities: Traffic awareness activities, cleaning activities, Knowledge sharing, Plant visit, new initiatives, exploring new social issues, slum area activities, animal rights etc.

Area of work

- Across Maharashtra
- Online activities across globe

Statistics

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

L egal & 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).
- “Upayn” has received the registration for trademark protection.







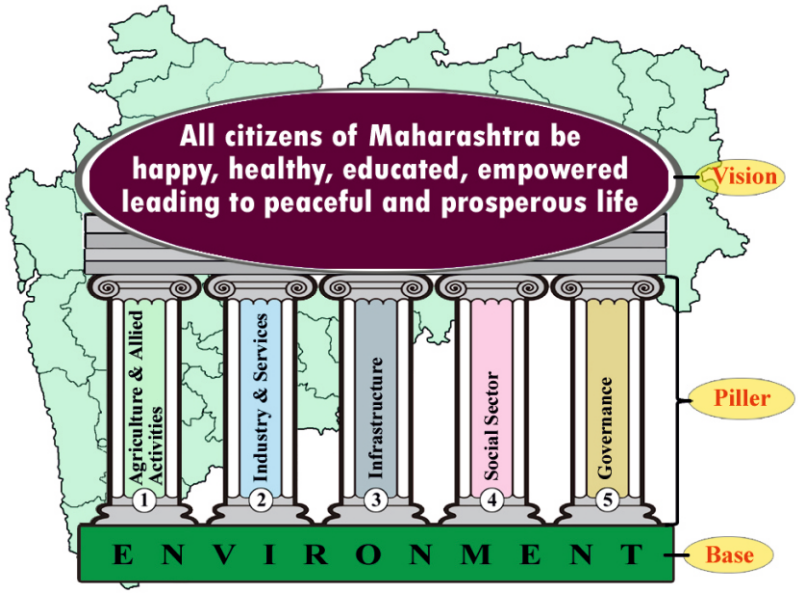
Projects and Activities

- Educational activities to encourage, engage, educate and empower children
- **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 classes, dance classes, career development, computer classes, drawing, craft, etc.
- **Career Guidance Sessions** / additional classes for various extra curricular subjects
- **Awareness:** Child abuse awareness, cleanliness awareness, menstrual hygiene awareness through digital media.
- **Swacha Maze Gaon**: Cleanliness Drives, competition in schools, knowledge sharing etc.
- **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 Osmanabad 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, Heamogram 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
- Others - Installation of solar water pump, water ATMs, tree plantation drives etc.

Geographical Scope

Maharashtra

Vision for SDGs for Maharashtra 2030



1. The fundamental principle of the vision- Sustainable, balanced and all inclusive socio-economic growth of the State
2. A sustainable environment enables a sustained growth across all sectors.
3. 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

Reference - Progress of Sustainable Development Goals in Maharashtra, Presented on 2nd February, 2018, Directorate of Economics and Statistics Planning Department, Government of Maharashtra

3. ABOUT GRAMARTHAN

Established

In the year 2013

Our Belief

Developing local institutions requires a collective approach rather than one that focuses on working with individual farmers or households. Among other advantages, it offers communities the benefits arising from economies of scale, such as lower investment costs, lower risks, and equitable access to resources.

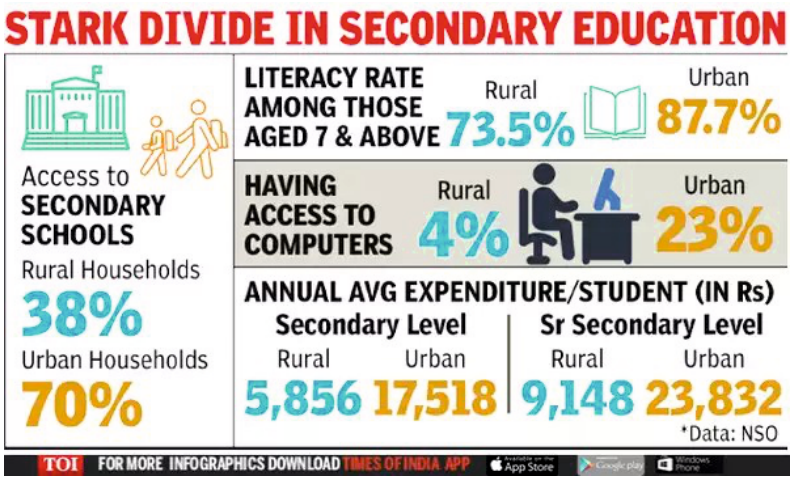
Bringing people together to work towards a common goal requires time and effort despite the obvious advantages of working with communities instead of individuals. It is also difficult to build sustainable institutions, so developing the leadership capacity of group members and community resource persons 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.

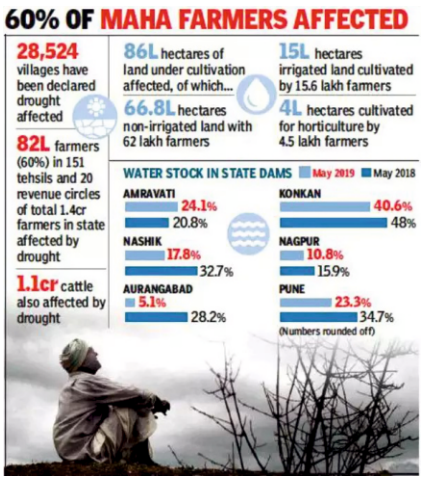
Moreover, investments in rural communities must go beyond short-term solutions in order to ensure long-term resilience. As a result, livelihoods are enhanced through the effective participation of corporate houses witg CSR and rural communities in the management of their own social, economic and environmental 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 arrange 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 villagers independent and self-sufficient in all aspects.
- To fulfill their basic needs with the help of easy solution and technology.

Some Data That Motivates Us to Work





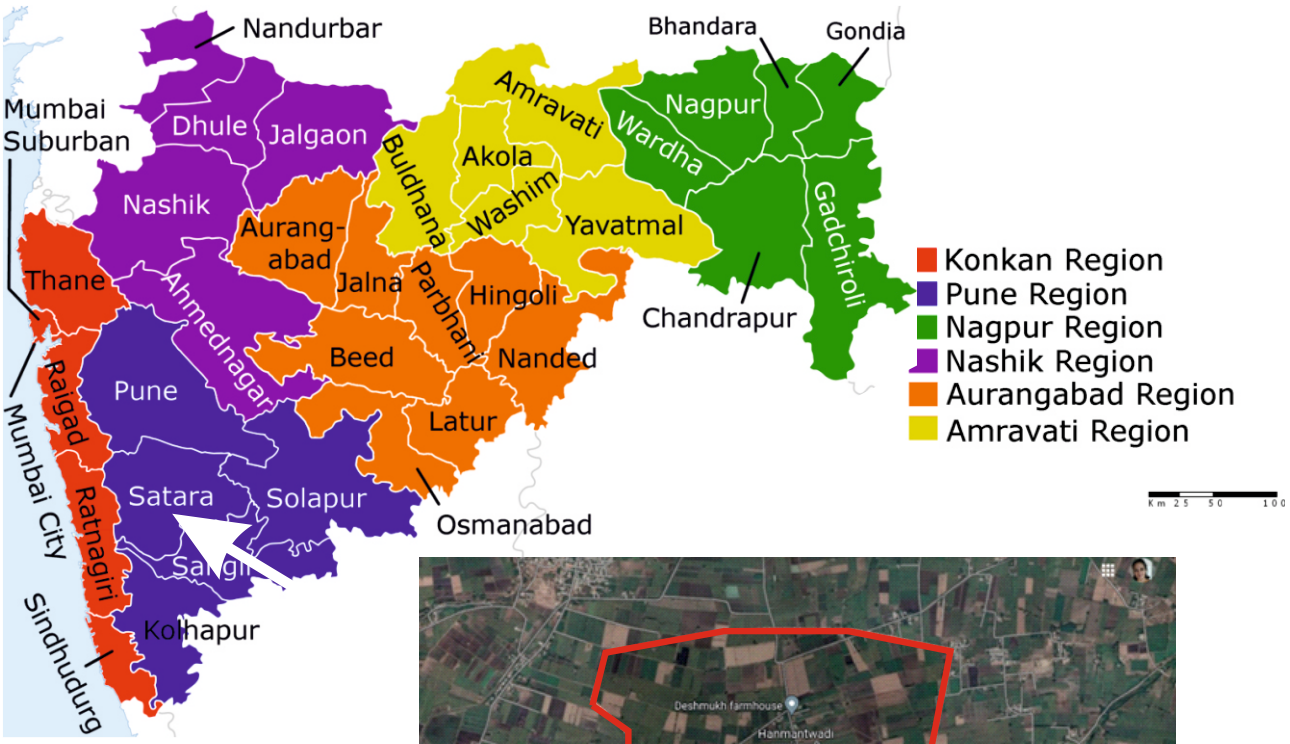
4. PROJECT DETAILS

4.1 Background

Hanmantwadi village is in Phaltan Taluka in Satara district of Maharashtra. The villagers were facing a number of problems like,

- Power cuts - untimely and for long hours hindered all activities post sunset. It was extremely difficult for villagers to walk through the village even for small errands in the streets as they had no Street Lights , this was especially felt strongly by women and children.
- High consumption of electricity for the water pumps used for distribution of water. This was a major concern as the Gram Panchayat had to pay heavy electricity bills for drinking water distribution.
- Another area of concern observed in the discussion with villagers was the lack of toilets for girls in the school. Considering the inconvenience caused to school-going girls, building a toilet was a priority for the villagers.

For the purpose of identifying appropriate solutions, the village contacted Deepastambha Charitable Trust (DCT) for consultation, and during the visit, three main requirements were identified, namely 18 nos. Solar street lights to be fitted, a Solar water pump of 10HP for distribution of water and a separate toilet facility for high school and college going girls approx. 300 nos.





4.2 Objectives

Objectives for Solar Street Lights

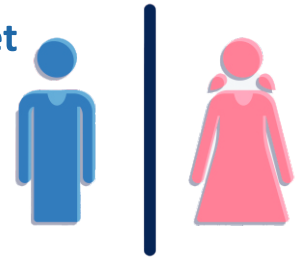


- **Energy Independence:** Solar street lights harness energy from the sun, providing a reliable and renewable source of power. This reduces dependence on traditional fossil fuels and grid electricity, leading to greater energy security for rural communities.
- **Cost Savings:** Once installed, solar street lights have minimal operational costs since they rely on sunlight, which is free. This is particularly advantageous for resource-constrained rural areas where electricity costs can be a burden.
- **Improved Safety and Security:** Well-lit streets enhance safety and security in rural areas, reducing the risk of accidents, crime, and anti-social behaviour. This is particularly important for vulnerable populations, including women, children, and the elderly.
- **Community Gatherings:** Solar street lights create a conducive environment for community gatherings, events, and celebrations during the evening, enhancing social cohesion and cultural exchange.

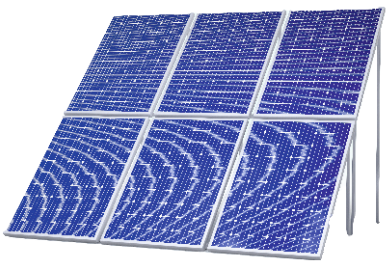
Objectives for Solar Water Pump

- **Renewable and Sustainable Energy Source:** Solar water pumps utilize clean and renewable energy from the sun, reducing reliance on fossil fuels and minimizing carbon emissions. This contributes to environmental sustainability and mitigates climate change.
- **Reduced Energy Bills:** Solar water pumps significantly reduce electricity bills, making them a cost-effective solution over the long term. This frees up financial resources for other essential needs.
- **Water Resource Management:** Solar water pumps can be tailored to match the water demand optimizing water usage.

Objectives of Toilet for Girls



- **Improved Hygiene and Health:** Access to clean and private toilets ensures better hygiene practices, reducing the risk of various infections and diseases. This is particularly important for girls, as they are more vulnerable to health issues related to inadequate sanitation.
- **Menstrual Hygiene Management:** Proper toilet facilities provide a safe and comfortable space for girls to manage their menstrual hygiene. This enables them to attend school regularly, without the fear of embarrassment or discomfort.
- **Increased School Attendance:** With accessible toilets, girls are more likely to attend school regularly, even during their menstrual cycles. This leads to higher educational retention rates and improved overall academic performance.



4.3 Research work



Solar Street Light

Hon'ble Prime Minister, on 5th January, 2015 launched the Street Lighting National Programme (SLNP) to replace 1.34 crore conventional street lights with energy efficient LED street lights.

It was highly beneficial to install solar lights as it was both an ideal and natural way to save electricity. The village lifestyle and need for electricity made reliance on commercial electricity very difficult. Facing frequent power cuts made life tough for villagers.

Deepastambha Charitable Trust took the required steps to help villagers with an easy solution.During their primary visit with villagers, DCT team members discussed electricity problems and frequent power outages. Villagers faced many problems because of this. It was difficult to move around during the evening hours and rainy days for them. Wild animal attacks, snake bite incidents were a constant fear for villagers and overall safety challenges were there. Considering these troublesome situations, installing Solar Street Lights was the appropriate solution.

Deepastambha conducted an assessment of technical feasibility for Solar Street Lights. The duration of sunny hours and availability of space were indicative of technology suitability in the village locations.

Based on the length of the street, the number of solar street lights was decided. The Solar Street Light consists of one light (luminary) and a lithium ferrous phosphate (LiFePO4) battery attached to a hot dip galvanized pole with a fixture attached to the pole top. Specifications of a solar streetlight are given below.

S.No.	Accessories	20-Watt Solar Street Light System (Qty - 20 nos.)
01.	Street Lights	LED 20-Watt Luminaire Light (IEC certified)
02.	Solar Panels	Solar Panel 40- 75 Watt Polycrystalline
03.	Lithium Battery	12 V, 13 Ah - 24 Ah
04.	Pole	Galvanized Pole 15 feet (5 mtr.) height, Light bracket, Panel Bracket & Other accessories

Solar Water Pump System

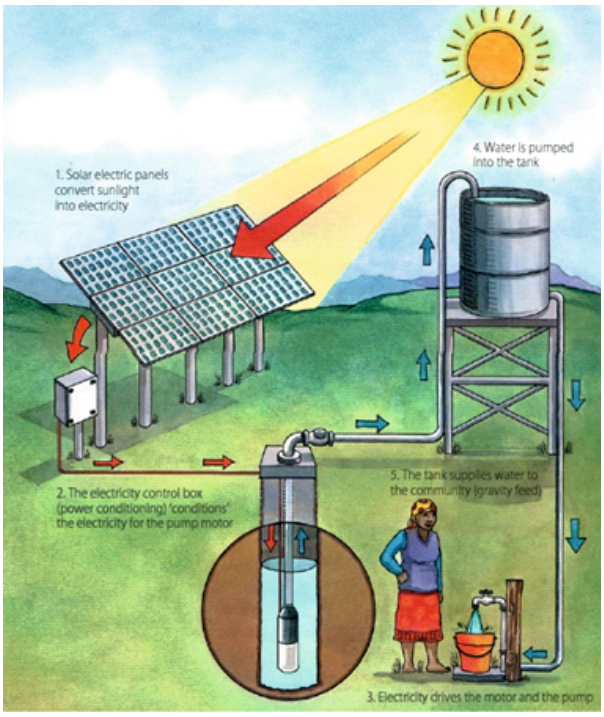
Access to a safe, sustainable water supply is a growing concern in every region of the world. In many communities, groundwater is being pumped by diesel fueled systems, which are both expensive and can be difficult to maintain. In communities where electricity is scarce, solar can be a part of the solution.

Solar-powered pumps run on electricity generated by photovoltaic (PV) panels or the radiated thermal energy available from collected sunlight as opposed to grid electricity - or diesel-run water pumps.

Generally, solar-powered pumps consist of a solar panel array, solar charge controller, DC water pump, fuse box/breakers, electrical wiring, and a water storage tank.

The operation of solar powered pumps is more economical mainly due to the lower operation and maintenance costs and has less environmental impact than pumps powered by an internal combustion engine.

Solar pumps are useful where grid electricity is unavailable or impractical, and alternative sources (in particular wind) do not provide sufficient energy.



Utility

A system with 335-watt PV array capacity and 10 HP pump can give a water discharge of 42,000-105,000 liters/day from a depth of 375 ft. This quantity of water is considered adequate for 300+ households.



Girls' Toilet Facility

Access to clean water and proper sanitation is vital for the well-being, education, and holistic growth of children.

The realization of sustainable development objectives can be facilitated by educational institutions equipped with essential infrastructure. Schools that provide well-maintained and age-appropriate lavatories, clean water sources, and effective hand-washing amenities contribute to higher attendance rates and improved learning outcomes. This, in turn, helps in preventing the spread of communicable diseases.

For young girls striving for education and a promising future, access to a clean and secure sanitation environment becomes a fundamental necessity. Managing menstrual hygiene and overall cleanliness can be challenging for girls. A secure and well-designed sanitation system within schools plays a pivotal role in ensuring girls' uninterrupted progress in their education. Establishing a safe and hygienic lavatory motivates girls to approach their studies with dedication and focus, consequently enhancing their career-building endeavours.

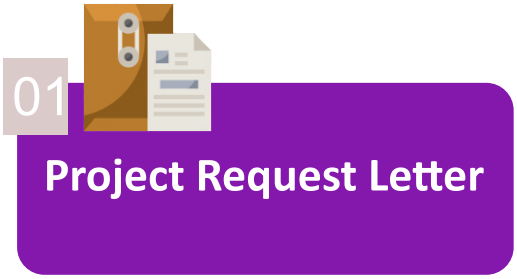
Situated in Hanmantwadi village, the aided semi-government school currently have 250+ female students. Recognizing the importance of addressing potential causes of absenteeism, the school has taken a proactive stance in constructing a dedicated lavatory for girls. Deepastambha Charitable Trust, has ensured that the school commits to the following responsibilities in the future on handing over the facility:

1. The school administration will oversee the maintenance and cleanliness of the facility.
2. Costs associated with ongoing maintenance will be covered by the school's budget.
3. Adequate water supply and proper drainage systems are in place, ensuring the availability of essential facilities like water supply in the changing room.
4. The responsibility of replenishing sanitary pads in the vending machine will be borne by the school, funded through its resources.
5. The disposal machine, designed as an incinerator, incurs an annual maintenance cost of Rs. 10,000/-, which will be managed through the school's administrative expenses.



State of School toilet prior to intervention

4.4 Documentation



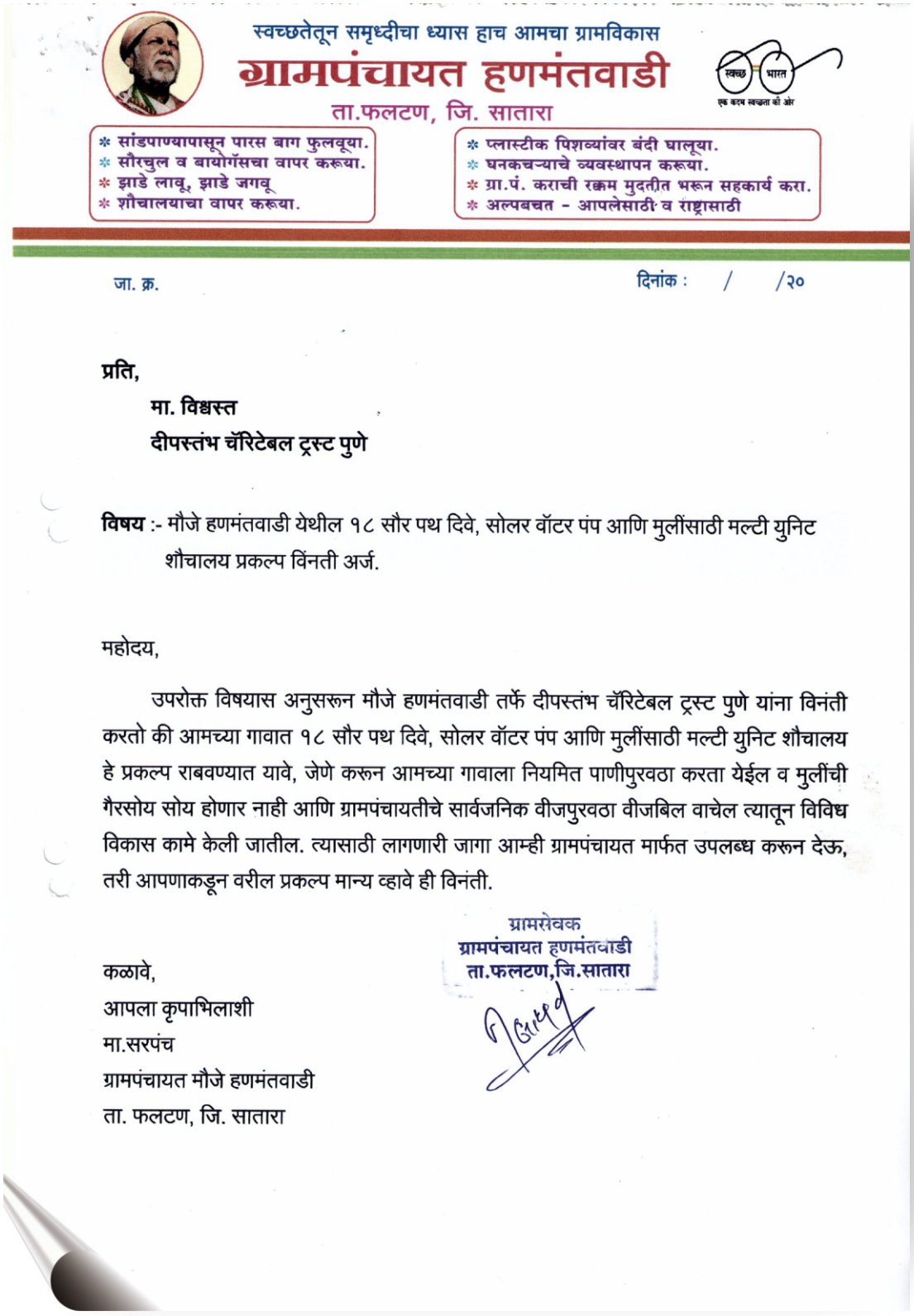








Request Letter to Deepastambha



स्वच्छतेतून समृध्दीचा ध्यास हाच आमचा ग्रामविकास

ग्रामपंचायत हणमंतवाडी

ता.फलटण, जि. सातारा

* सांडपाण्यापासून पारस बाग फुलवूया.
* सौरचुल व बायोगॅसचा वापर करूया.
* झाडे लावू, झाडे जगवू
* शौचालयाचा वापर करूया.

* प्लास्टीक पिशव्यांवर बंदी घालूया.
* घनकचऱ्याचे व्यवस्थापन करूया.
* ग्रा.पं. कराची रक्कम मुदतीत भरून सहकार्य करा.
* अल्पबचत - आपलेसाठी व राष्ट्रासाठी

जा. क्र. दिनांक : / /२०

प्रति,

मा. विश्वस्त

दीपस्तंभ चॅरिटेबल ट्रस्ट पुणे

विषय :- मौजे हणमंतवाडी येथील १८ सौर पथ दिवे, सोलर वॉटर पंप आणि मुलींसाठी मल्टी युनिट शौचालय प्रकल्प विंनती अर्ज.

महोदय,

उपरोक्त विषयास अनुसरून मौजे हणमंतवाडी तर्फे दीपस्तंभ चॅरिटेबल ट्रस्ट पुणे यांना विनंती करतो की आमच्या गावात १८ सौर पथ दिवे, सोलर वॉटर पंप आणि मुलींसाठी मल्टी युनिट शौचालय हे प्रकल्प राबवण्यात यावे, जेणे करून आमच्या गावाला नियमित पाणीपुरवठा करता येईल व मुलींची गैरसोय सोय होणार नाही आणि ग्रामपंचायतीचे सार्वजनिक वीजपुरवठा वीजबिल वाचेल त्यातून विविध विकास कामे केली जातील. त्यासाठी लागणारी जागा आम्ही ग्रामपंचायत मार्फत उपलब्ध करून देऊ, तरी आपणाकडून वरील प्रकल्प मान्य व्हावे ही विनंती.

ग्रामसेवक
ग्रामपंचायत हणमंतवाडी
ता.फलटण,जि.सातारा

कळावे,

आपला कृपाभिलाशी

मा.सरपंच

ग्रामपंचायत मौजे हणमंतवाडी

ता. फलटण, जि. सातारा

Project Acceptance Letter

जा. क्रं. / ग्राम. (ग्रा. हणम. -०१/ १५/०१/२०२२)

दिनांक - ०२/०३/२०२३

प्रति

मा. सरपंच

ग्रामपंचायत

मौजे. हणमंतवाडी

ता. - फलटण, जि – सातारा

विषय: ग्रामपंचायत मौजे. हणमंतवाडी साठी **१८ सौर पथ दिवे, सोलर वॉटर पंप** आणि म ुलींसाठी **मल्टी युनिट शौचालय** प्रकल्प मान्यता आणि लोकसहभागाबाबत.

महोदय,

उपरोक्त विषयान्वये आपल्या ग्रामपंचायती मार्फत आ. क्रं.: ग्राम (ग्रा. हणम. -०१/ १५/०१/२०२२) रोजी केलेल्या विनंती अर्जानुसार, **१८ सौर पथ दिवे, सोलर वॉटर पंप आणि मुलींसाठी मल्टी युनिट शौचालय प्रकल्प** करण्याबाबत विनंती करण्यात आली होती. त्यानुसार दीपस्तंभ चॅरिटेबल ट्रस्ट आणि पुण्यातील एक नामवंत कंपनी हावडेन थॉमसेन इंडिया प्रा. लि. यांनी या प्रकल्पाला तत्त्वता मान्यता दिली आहे. प्रकल्पाचा पूर्ण तपशील आणि खर्च खालील प्रमाणे.

प्रकल्पाची माहिती	प्रकल्पाचा फायदा
• Solar PV Module Polycrystalline • Solar Water Pump Controller • Galvanized Standard Structure with Module Mounting Clamps and Accessories, AC (up to 50Mtr) & DC cables, MCB, • Selector switch & other related accessories • Junction Boxes AJB & other Accessories • Lightning Arrestor Set as per IS standards and Earthen set • Add on conversion system from solar to MSEB Power in case of emergency. • Design, Installation & Commissioning of solar system at site.	गावाचा पाणीपुरवठा सौर ऊर्जा शक्ती वापरून करणे, जेणे करून पाण्याच्या मोटारीचा विजेचा खर्चाची बचत होईल. आणि बचत झालेला निधी ग्रामविकासासाठी उपयोगात येईल.

प्रकल्पाची माहिती	प्रकल्पाचा फायदा
Multi-Unit girl's Toilet (4.00 × 4.30) for School at Hanmantwadi, Phaltan, Satara comprising of Design, Execution, operate & transfer includes bath cum changing room, Water closet, 4 nos. of urinals, wash basin and required plumbing arrangements with Std. CP & Sanitary fittings etc. (Excavation, P.C.C, R.C.C. Footings, R.C.C. Column, Beam, plinth level beam, B.B. Masonry 0.23 plinth level, Murum Filling, R.C.C. Slab, Internal and external plaster, Flooring, Windows, Doors, Grill work, paint, overhead water tank and piping, plumbing. electrical work)	. विद्यालय आणि कॉलेज मिळून मुलींची संख्या जास्त आहे. आणि सद्या एकच शौचालय उपलब्ध असल्याने मुलींची गैरसोय होत आहे. या मल्टी युनिट शौचालया मुलींची गैरसोय होणार नाही.

प्रकल्पाची माहिती	प्रकल्पाचा फायदा
• Solar PV Module Polycrystalline • Galvanized Standard Structure with Module Mounting Clamps and Accessories • Off grid solar INVERTOR MPPT 3.5 KVA. 48 V. Selector switch & other related accessories • Junction Boxes AJB & other Accessories • Lightning Arrestor Set as per IS standards and Earthen set • Design, Installation of 20 street lights & Commissioning of solar system at site.	अनियमित वीज पुरवठ्यामुळे शाळेतील विद्यार्थ्यांचे नुकसान होत आहे. त्यामुळे तंत्रज्ञानाचा वापर करता येत नाही. शाळा सौर उर्जेवर केल्यावर तंत्रज्ञानाचा वापर अधिक होऊन मुलांचा शैक्षणिक विकास अधिक होईल.

प्रकल्पाच्या अटी:

१. ग्रामपंचायतीने लोकसहभागाच्या बाबतीतील पूर्तता दीपस्तंभ चॅरिटेबल ट ्रस्ट संस्थेस २०/ ०३/ २०२३ पर्यंत करावी. त्यांनतर पुढील ३० दिवसांमध्ये
प्रकल्प पूर्णत्वास नेला जाईल आणि त्याचे लोकार्पण केले जाईल.

२. प्रकल्पाचे लोकार्पण केल्यानंतर त्याच्या देखभालीची पूर्ण जबाबदारी ग्रामपंचायतीची असेल. पुढील एक वर्ष दीपस्तंभ प्रकल्पाची वरचेवर तपासणी करेल.

३. गावाकडून दर तीन महिन्याने प्रकल्पाचा एक व्हिडिओ (ध्वनीचित्रफीत) आणि फोटो (छायाचित्र) काढून संस्थेला पाठवणे व दर तीन महिन्यांनी एम.एस.इ.डी.सी.एल. लाईट बिल झेरॉक्स प्रत पाठवणे बंधनकारक राहील.

४. दर चार दिवसांनी सोलर पॅनल ची, आणि शौचालयाची नियमित सफाई करणे ही ग्रामपंचायतीची जबाबदारी असेल. त्यावर सोलर सिस्टिमची कार्यक्षमता आणि मुलींचे आरोग्य अवलंबून असते.

५. सोलर वॉटर पंप मधून होणाऱ्या पाणी पुरवठावर सर्व गावाचा सामान अधिकार असेल त्याचा, जात, भाषा, धर्म, वंश, लिंग, राजकीय लाभ असा कोणत्याही प्रकारचा भेदभाव केला जाणार नाही.

६. सदर प्रकल्पाच्या ठिकाणी कोणत्याही प्रकारची तोडफोड अथवा नासधूस केल्यास त्यावर कायदेशीर कारवाई केली जाईल.

७. सदर प्रकल्पाची जी काही नासधूस किंवा तोडफोड झाली असल्यास त्याच्या दुरुस्तीची जबाबदारी ही संपूर्ण ग्रामपंचायतीची असेल.

८. सदर प्रकल्पाच्या ठिकाणी ज्या कंपनीने अर्थसहाय्य केले आहे त्यांचा, दीपस्तंभ चॅरिटेबल ट्रस्ट पुणे व समस्त ग्रामस्थ मौजे. हणुमंतवाडी प. मा. यांच्या नावाची पाटी लावण्यास ग्रामपंचात व संपूर्ण गावाची मान्यता असेल.

९. १८ सौर पथ दिवे, सोलर वॉटर पंप आणि मुलींसाठी मल्टी युनिट शौचालय प्रकल्प याचे लोकार्पण झाल्या वर पुढील ४५ दिवसाच्या आत सर्व प्रकल्प हिशोबाचा तपशील दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे यांच्या मार्फत ग्रामपंचायतीला दिला जाईल.

१०.सदर प्रकल्पाचे कामकाज सुरु असताना कोणताही व्यक्ती कामात बाधा आणणार नाही याची जबाबदारी ग्रामपंचायत आणि ग्रामस्थांची असेल.

११. सदर प्रकल्प सुरु असताना कोणत्याही व्यक्ती / समूहाने ने बाधा आणल्यास प्रकल्पाचे काम हे तूर्तास थांबवले जाईल. काम २४ तासाच्या वर थांबल्यास प्रकल्प रद्द करण्यात येईल व लोकसहभागाची रक्कम परत मिळणार नाही.

१२. आपात्कालीन वेळी, नैसर्गिक आपत्ती, सोलर यंत्रणेमध्ये काही बिघाड आढळल्यास, ढगाळ वातावरण असल्यास आणि पावसाळ्याच्या काही महिन्यात सोलर पंप कमी वेळ चालेल अथवा चालणार नाही अश्यावेळी पंप एम.एस.इ.डी.सी.एल. च्या इलेक्ट्रिकल कनेक्शन वर चालवावा लागेल. त्यासाठी लागणारी सर्व तांत्रिक सोय प्रकल्पात करण्यात आली आहे. या काळात येणारे वीज बिल ग्रामपंचायतीने भरणे बंधनकारक आहे.

१३.सदर पत्रासोबत अटींच्या मान्यतेचा स्वाक्षरी करावयाचा कागद **"Annexure I"** जोडला आहे. त्यावर संबंधित सर्व पदाधिकाऱ्यांनी स्वाक्षरी करून संस्था व ग्रामपंचायतीस सुपूर्त कराव्या.

१४.**ग्रामपंचात व गावकरी मिळून खालील कागदपत्रे दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे ला देणे अपेक्षित आहे.**

- प्रकल्प ज्या ठिकाणी स्थापन करायचा आहे ती जागा ग्रामपंचायत ची आहे असे सिद्ध करणारा जागेचा दाखला. (जागेचा ७/१२ किंवा जागेचा उतारा)
- ग्रामपंचात च्या लेटर हेड वर सदर प्रकल्पाचा विनंती अर्ज अर्थसहाय्य करणाऱ्या कंपनीच्या नावे देणे.
- सदर प्रकल्पाला हावडेन थॉमसेन इंडिया प्रा. लि. कंपनी व्यतिरिक्त आणखी इतर कोणत्याही संस्था / वैयक्तिक / कंपनी मार्फत मदत घेतली गेलेली नाही असे जाहीर करणारे पत्र ग्रामपंचात च्या लेटर हेड वर देणे.
- प्रकल्पाची जबाबदारी घेणाऱ्या दोन व्यक्तींची नावे, संपर्क क्रमांक व ओळखपत्रे
- प्रकल्पाचे काम पूर्ण झाल्यावर ग्रामपंचायती तर्फे एक प्रकल्प पूर्तीचे आभारपर पत्र कंपनी व दीपस्तंभ च्या नावे देण्यात यावे.

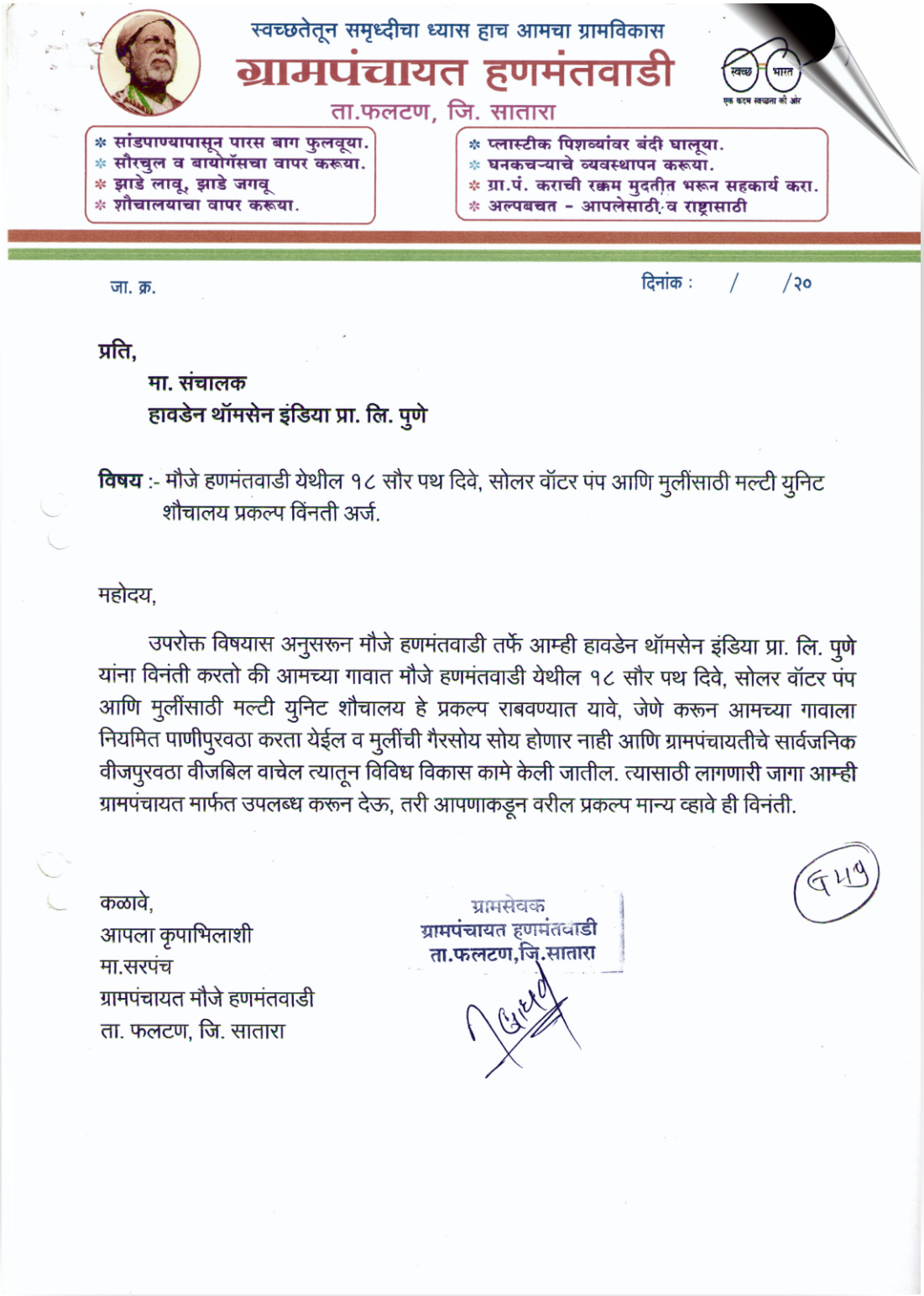
धन्यवाद

श्री. लक्ष्मण सूर्यवंशी
प्रकल्प समन्वयक
प्रकल्प ग्रामार्थन - गावांचा शाश्वत विकास
दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे.
मोबाईल - ९९२३४०३२१०

मा. सरपंच
ग्रामपंचायत
मौजे. कुसगाव प.मा.
ता.- मावळ , जि - पुणे

मा. ग्रामसेवक
ग्रामपंचायत
मौजे. कुसगाव प.मा.
ता.- मावळ , जि - पुणे

Request Letter to Howden



स्वच्छतेतून समृध्दीचा ध्यास हाच आमचा ग्रामविकास

ग्रामपंचायत हणमंतवाडी

ता.फलटण, जि. सातारा

- सांडपाण्यापासून पारस बाग फुलवूया.
- सौरचुल व बायोगॅसचा वापर करूया.
- झाडे लावू, झाडे जगवू
- शौचालयाचा वापर करूया.
- प्लास्टीक पिशव्यांवर बंदी घालूया.
- घनकचऱ्याचे व्यवस्थापन करूया.
- ग्रा.पं. कराची रक्कम मुदतीत भरून सहकार्य करा.
- अल्पबचत - आपलेसाठी व राष्ट्रासाठी

जा. क्र.

दिनांक : / /२०

प्रति,

मा. संचालक

हावडेन थॉमसेन इंडिया प्रा. लि. पुणे

विषय :- मौजे हणमंतवाडी येथील १८ सौर पथ दिवे, सोलर वॉटर पंप आणि मुलींसाठी मल्टी युनिट शौचालय प्रकल्प विंनती अर्ज.

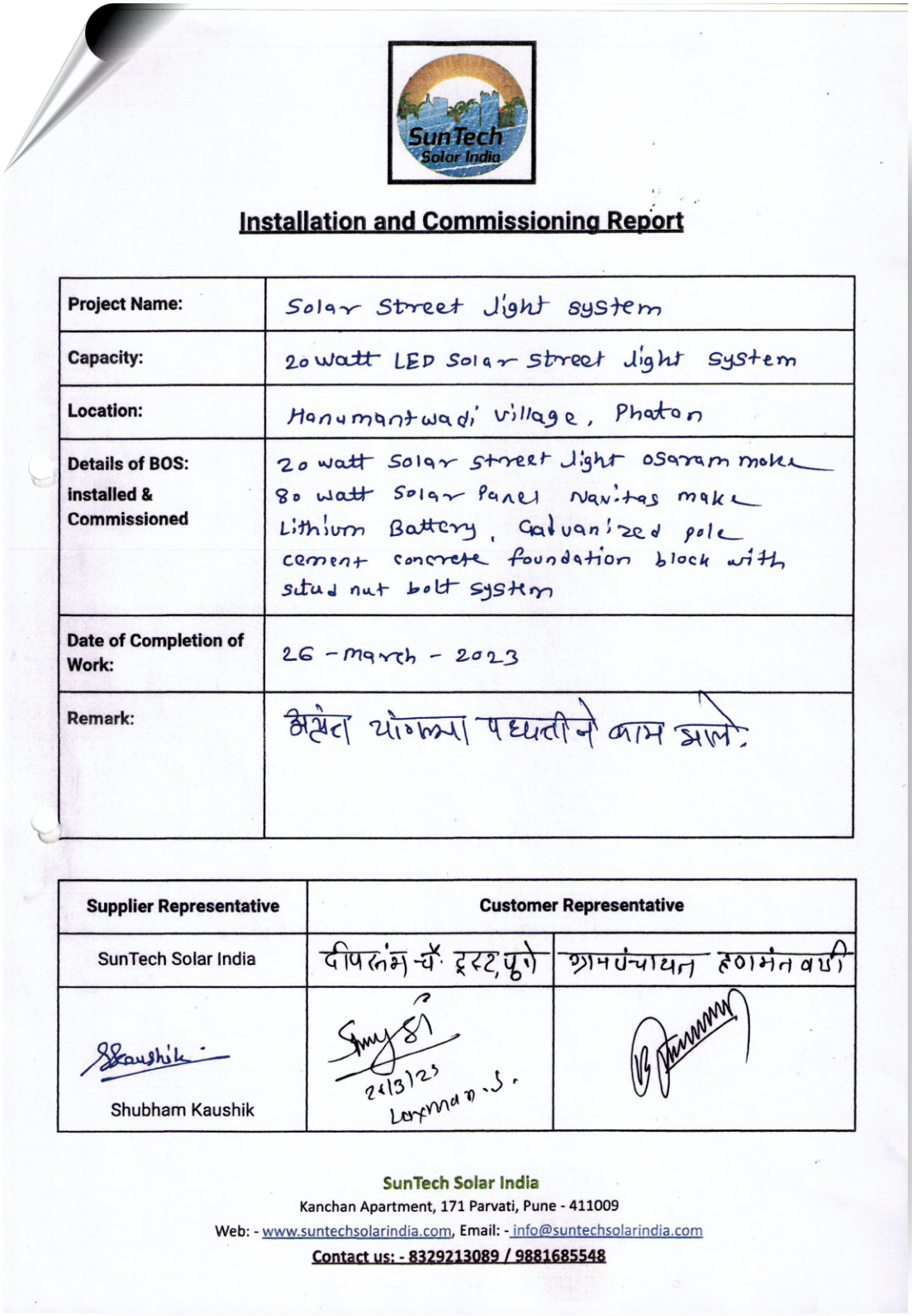
महोदय,

उपरोक्त विषयास अनुसरून मौजे हणमंतवाडी तर्फे आम्ही हावडेन थॉमसेन इंडिया प्रा. लि. पुणे यांना विनंती करतो की आमच्या गावात मौजे हणमंतवाडी येथील १८ सौर पथ दिवे, सोलर वॉटर पंप आणि मुलींसाठी मल्टी युनिट शौचालय हे प्रकल्प राबवण्यात यावे, जेणे करून आमच्या गावाला नियमित पाणीपुरवठा करता येईल व मुलींची गैरसोय सोय होणार नाही आणि ग्रामपंचायतीचे सार्वजनिक वीजपुरवठा वीजबिल वाचेल त्यातून विविध विकास कामे केली जातील. त्यासाठी लागणारी जागा आम्ही ग्रामपंचायत मार्फत उपलब्ध करून देऊ, तरी आपणाकडून वरील प्रकल्प मान्य व्हावे ही विनंती.

कळावे,
आपला कृपाभिलाशी
मा.सरपंच
ग्रामपंचायत मौजे हणमंतवाडी
ता. फलटण, जि. सातारा

ग्रामसेवक
ग्रामपंचायत हणमंतवाडी
ता.फलटण,जि.सातारा

Installation & Commissioning of Solar Street Lights



SunTech Solar India

Installation and Commissioning Report

Project Name:	Solar Street light system
Capacity:	20 watt LED Solar Street light System
Location:	Hanumantwadi village, Phaltan
Details of BOS: installed & Commissioned	20 watt Solar street light osaram make 80 watt Solar Panel Navitas make Lithium Battery, Galvanized pole cement concrete foundation block with stud nut bolt system
Date of Completion of Work:	26 - March - 2023
Remark:	अतिशय योग्य पध्दतीने काम झाले.

Supplier Representative	Customer Representative	
SunTech Solar India	दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे	ग्रामपंचायत हनुमंतवाडी
Shubham Kaushik	24/3/23 Laxman J.	

SunTech Solar India
Kanchan Apartment, 171 Parvati, Pune - 411009
Web: - www.suntechsolarindia.com, Email: - info@suntechsolarindia.com
Contact us: - 8329213089 / 9881685548

Installation & Commissioning of Solar Water Pump

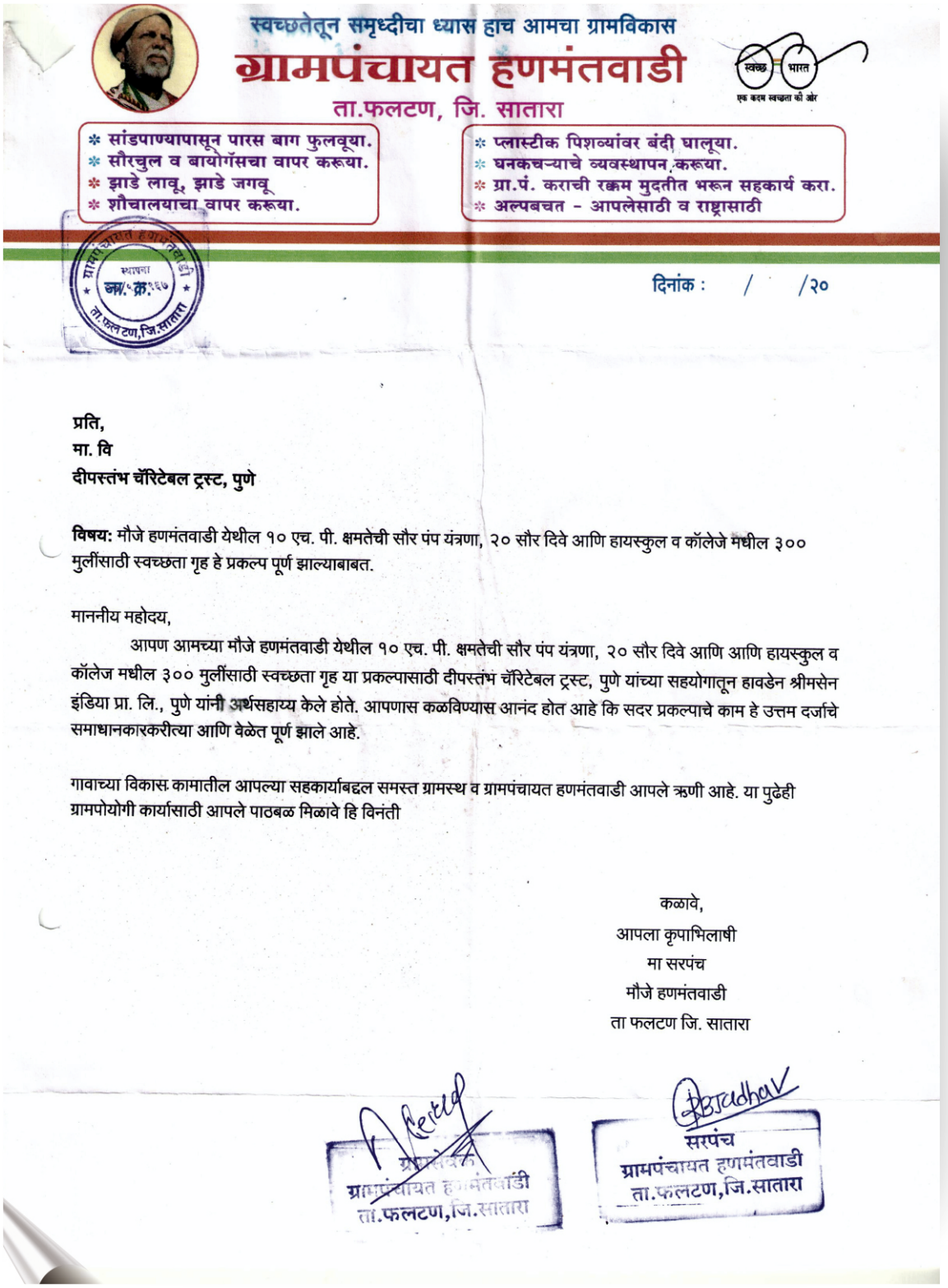
Installation and Commissioning Report

Project Name:	Solar Watter pump System
Capacity:	10 hp Solar water pump system
Location:	Hanumantwadi Village , Phaltan
Details of BOS: installed & Commissioned	335 WP Solar Panel polycab make Fuji make Solar pump controller Galvanized Solar structure , changer over to MSEDCL option switch, 4 BOS
Date of Completion of Work:	26 - March - 2023
Remark:	आपण आमच्या गावात येवून अतिशय चांगल्या पध्दतीने नियोजन करून दिलेले काम फार विश्वासाने टिकेल असेच खूप चांगले काम केले.

Supplier Representative	Customer Representative	
SunTech Solar India	दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे	ग्रामपंचायत हणमंतवाडी
Shubham Kaushik	26/3/23 Laxman . S.	

SunTech Solar India
Kanchan Apartment, 171 Parvati, Pune - 411009
Web: - www.suntechsolarindia.com, Email: - info@suntechsolarindia.com
Contact us: - 8329213089 / 9881685548

Project Completion letter to Deepastambha



स्वच्छतेतून समृध्दीचा ध्यास हाच आमचा ग्रामविकास

ग्रामपंचायत हणमंतवाडी

ता.फलटण, जि. सातारा

स्वच्छ भारत
एक कदम स्वच्छता की ओर

* सांडपाण्यापासून पारस बाग फुलवूया.
* सौरचुल व बायोगॅसचा वापर करूया.
* झाडे लावू, झाडे जगवू
* शौचालयाचा वापर करूया.

* प्लास्टीक पिशव्यांवर बंदी घालूया.
* घनकचऱ्याचे व्यवस्थापन करूया.
* ग्रा.पं. कराची रक्कम मुदतीत भरून सहकार्य करा.
* अल्पबचत - आपलेसाठी व राष्ट्रासाठी

ग्रामपंचायत हणमंतवाडी ता.फलटण,जि.सातारा

दिनांक : / /२०

प्रति,
मा. वि
दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे

विषय: मौजे हणमंतवाडी येथील १० एच. पी. क्षमतेची सौर पंप यंत्रणा, २० सौर दिवे आणि हायस्कुल व कॉलेजे मधील ३०० मुलींसाठी स्वच्छता गृह हे प्रकल्प पूर्ण झाल्याबाबत.

माननीय महोदय,

आपण आमच्या मौजे हणमंतवाडी येथील १० एच. पी. क्षमतेची सौर पंप यंत्रणा, २० सौर दिवे आणि आणि हायस्कुल व कॉलेज मधील ३०० मुलींसाठी स्वच्छता गृह या प्रकल्पासाठी दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे यांच्या सहयोगातून हावडेन श्रीमसेन इंडिया प्रा. लि., पुणे यांनी अर्थसहाय्य केले होते. आपणास कळविण्यास आनंद होत आहे कि सदर प्रकल्पाचे काम हे उत्तम दर्जाचे समाधानकारकरीत्या आणि वेळेत पूर्ण झाले आहे.

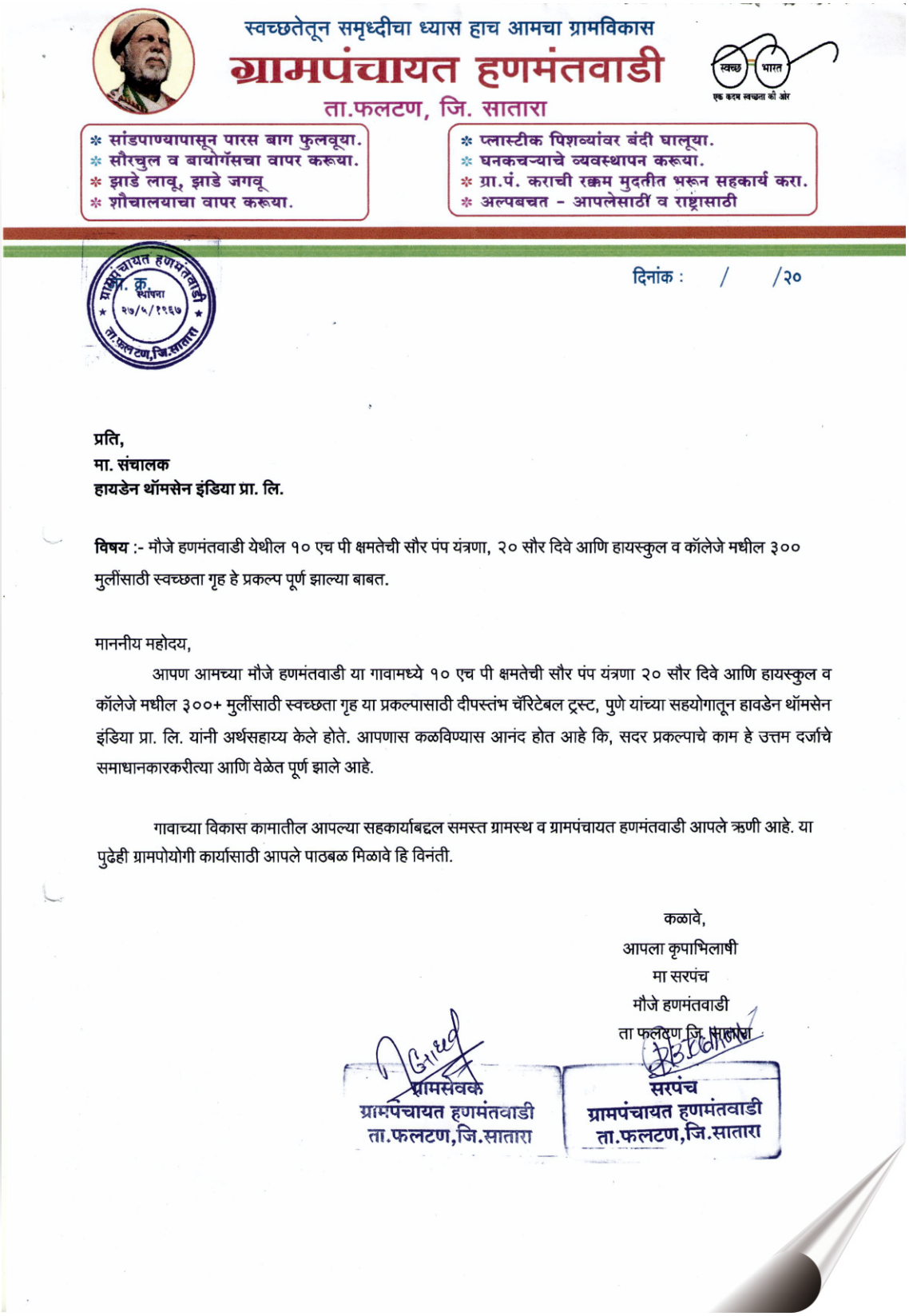
गावाच्या विकास कामातील आपल्या सहकार्याबद्दल समस्त ग्रामस्थ व ग्रामपंचायत हणमंतवाडी आपले ऋणी आहे. या पुढेही ग्रामपोयोगी कार्यासाठी आपले पाठबळ मिळावे हि विनंती

कळावे,
आपला कृपाभिलाषी
मा सरपंच
मौजे हणमंतवाडी
ता फलटण जि. सातारा

ग्रामपंचायत हणमंतवाडी ता.फलटण,जि.सातारा

सरपंच
ग्रामपंचायत हणमंतवाडी
ता.फलटण,जि.सातारा

Completion Letter to Howden



स्वच्छतेतून समृध्दीचा ध्यास हाच आमचा ग्रामविकास

ग्रामपंचायत हणमंतवाडी

ता.फलटण, जि. सातारा

स्वच्छ भारत
एक कदम स्वच्छता की ओर

* सांडपाण्यापासून पारस बाग फुलवूया.
* सौरचुल व बायोगॅसचा वापर करूया.
* झाडे लावू, झाडे जगवू
* शौचालयाचा वापर करूया.

* प्लास्टीक पिशव्यांवर बंदी घालूया.
* घनकचऱ्याचे व्यवस्थापन करूया.
* ग्रा.पं. कराची रक्कम मुदतीत भरून सहकार्य करा.
* अल्पबचत - आपलेसाठी व राष्ट्रासाठी

ग्रामपंचायत हणमंतवाडी ग्रा. कु. स्थापना २७/५/१९६७ ता.फलटण,जि.सातारा

दिनांक : / /२०

प्रति,
मा. संचालक
हायडेन थॉमसेन इंडिया प्रा. लि.

विषय :- मौजे हणमंतवाडी येथील १० एच पी क्षमतेची सौर पंप यंत्रणा, २० सौर दिवे आणि हायस्कुल व कॉलेजे मधील ३०० मुलींसाठी स्वच्छता गृह हे प्रकल्प पूर्ण झाल्या बाबत.

माननीय महोदय,

आपण आमच्या मौजे हणमंतवाडी या गावामध्ये १० एच पी क्षमतेची सौर पंप यंत्रणा २० सौर दिवे आणि हायस्कुल व कॉलेजे मधील ३००+ मुलींसाठी स्वच्छता गृह या प्रकल्पासाठी दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे यांच्या सहयोगातून हावडेन थॉमसेन इंडिया प्रा. लि. यांनी अर्थसहाय्य केले होते. आपणास कळविण्यास आनंद होत आहे कि, सदर प्रकल्पाचे काम हे उत्तम दर्जाचे समाधानकारकरीत्या आणि वेळेत पूर्ण झाले आहे.

गावाच्या विकास कामातील आपल्या सहकार्याबद्दल समस्त ग्रामस्थ व ग्रामपंचायत हणमंतवाडी आपले ऋणी आहे. या पुढेही ग्रामपोयोगी कार्यासाठी आपले पाठबळ मिळावे हि विनंती.

कळावे,
आपला कृपाभिलाषी
मा सरपंच
मौजे हणमंतवाडी
ता फलटण जि. सातारा

ग्रामसेवक
ग्रामपंचायत हणमंतवाडी
ता.फलटण,जि.सातारा

सरपंच
ग्रामपंचायत हणमंतवाडी
ता.फलटण,जि.सातारा

Handover Letter

दीपस्तंभ

लोकार्पण प्रमाणपत्र

ग्रामपंचायत मौजे हणमंत वाडी यांच्या आ. क्र. ग्राम. (०२)- (०२/०३/२०२३) या विनंती अर्जानुसार दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे यांनी १० एच. पी. क्षमतेची सौर पंप यंत्रणा, २० सौर दिवे आणि हायस्कुल व कॉलेजे मधील ३००+ मुलींसाठी स्वच्छता गृह या प्रकल्पाची उभारणी केली. सदर प्रकल्पाची उभारणी दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे यांच्या देखरेखीखाली झाली असून त्यांच्या कामाचा दर्जा आणि गुणवत्तेसाठी सदर ट्रस्ट कटिबद्ध आहे.

या कामात प्राथमिक अर्थसहाय्य केल्या बद्दल "हावडेन थॉमसेन इंडिया प्रा. लि." आणि बांधकाम सहाय्यासाठी "सन्टेक सोलर इंडिया आणि ग्रामपंचायत हणमंतवाडी" यांचे दीपस्तंभ चॅरिटेबल ट्रस्ट,पुणे सदैव आभारी आहे. तसेच समस्त मौजे गाव हणमंतवाडी व ग्रामपंचात सदस्यांचा पाठींबा या प्रकल्पाला मिळाल्याबाबत त्यांचेही आम्ही आभार मानतो.

आज (बुधवार, दिनांक २९/३/२०२३ रोजी १० एच. पी. क्षमतेची सौर पंप यंत्रणा, २० सौर दिवे आणि हायस्कुल व कॉलेजे मधील ३००+ मुलींसाठी स्वच्छता गृह या प्रकल्पाचे लोकार्पण करण्यात आम्हाला (दीपस्तंभ चॅरिटेबल ट्रस्ट,पुणे) अतिशय आनंद होत आहे !

यापुढे वरील सर्व प्रकल्पाची संपूर्ण जबाबदारी हि सर्व मौजे हणमंत वाडी ग्रामस्थांची राहील. सदर प्रकल्पाची देखरेखीची जबाबदारी व अन्य गरजेचे फेरबदलाचे अधिकार व निर्णय ग्रामपंचाय मार्फत घेतले जातील.

आपल्या गावाला विकासाच्या मार्गाने घेऊन जाणे ही आपल्या सर्वांची जबाबदारी आहे, आणि या ग्रामविकासाच्या कार्यात प्रत्येकाचा वाटा खूप मोलाचा आहे.

आजचा संघर्ष उद्याचे सामर्थ्य तयार करतो

विश्वस्त

दीपस्तंभ चॅरिटेबल ट्रस्ट, पुणे.

ग्रामसेवक
ग्रामपंचायत हणमंतवाडी
ता.फलटण,जि.सातारा

मौजे हणमंत वाडी

ता- फलटण, जि - सातारा

सरपंच
सरपंच
ग्रामपंचायत हणमंतवाडी
ता.फलटण,जि.सातारा
मौजे हणमंत वाडी

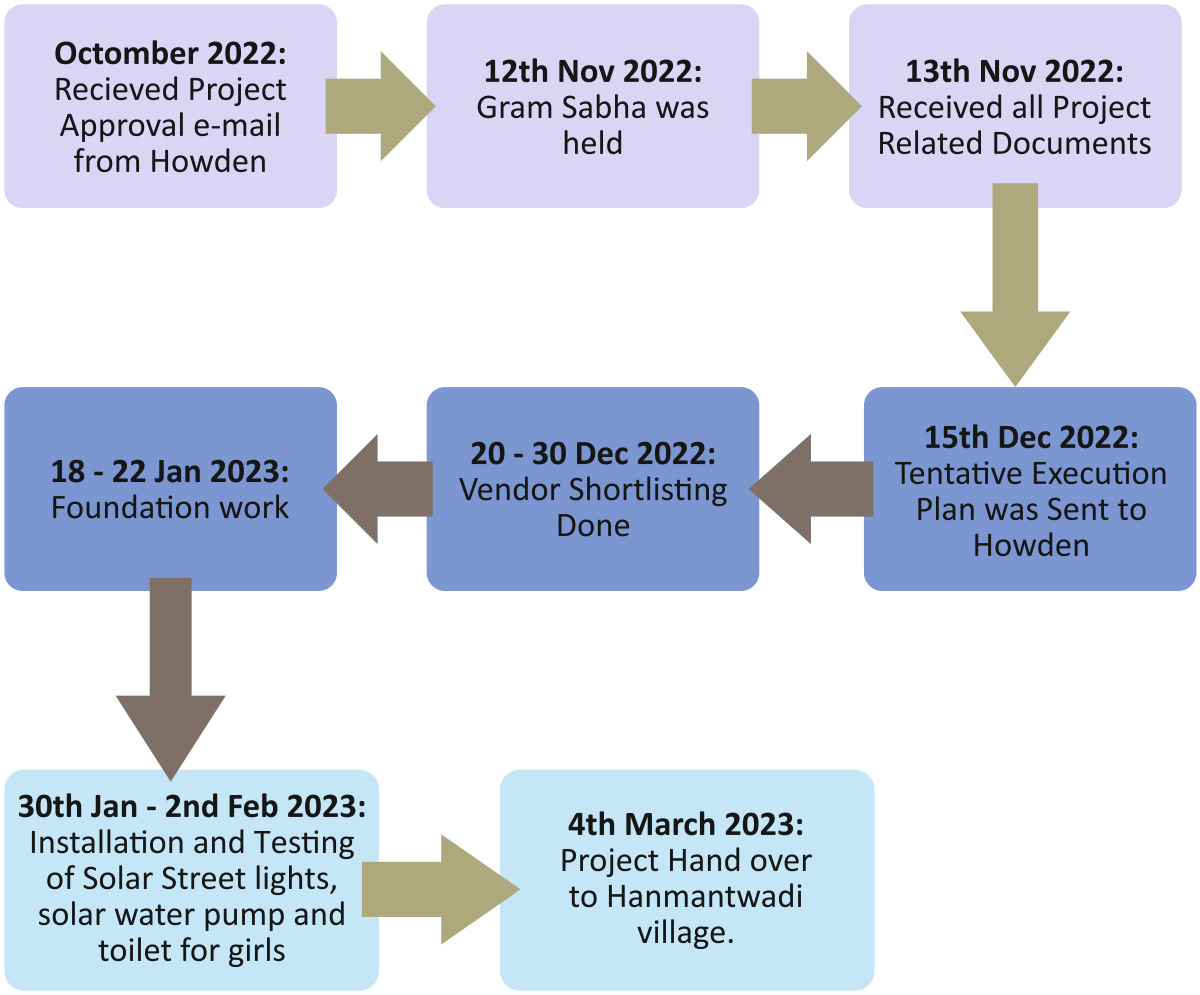
ता- फलटण, जि – सातारा

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Registered Under Foreign Contribution (Regulation)Act 2010 Vide No.: 083930738 dt 28/03/2019

4.5 Project Progression



4.6 Glimpses

Gram Sabha, Site Visit and Request Letter to Deepastambha









Installation of Solar Street Lights















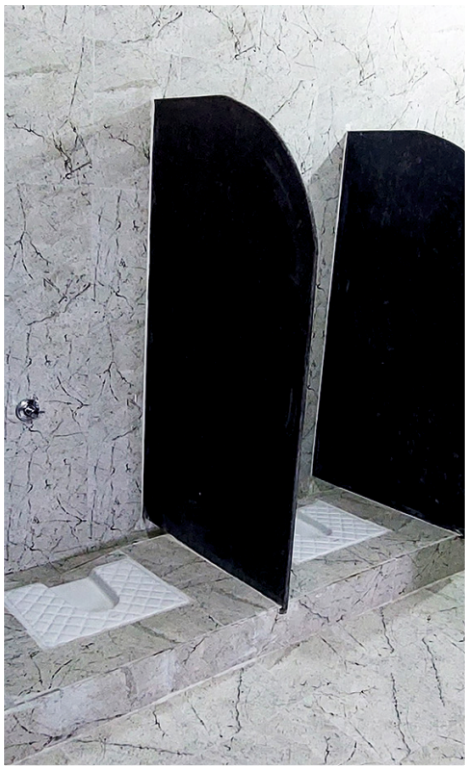
Installation of Toilet for Girls















Installation of Solar Water Pump









Inauguration







4.7 Impact Analysis

With the implementation of the Solar for Water Pump and installation of Solar Street Light in the Village Hanmantwadi the Sarpanch was awarded with the Adarsh Sarpanch Award.

The money saved with the installation of solar facilities the village has now added to their Gram Nidhi - a fund used in case of emergency to support the marginalised and also maintain the upkeep of the village.

Solar Water Pump System – 10 HP

Description	Value	Units
System	10	HP
Electricity generation	10,500	Kwh (Units/Year)
Escalation of electricity price	2	%
Average electricity rate	11.5	Rs/Kwh
Required electricity to run pump	10,500	Kwh
Electricity saving in Rupees	120750.00	Rs/Year
Payback period	6 to 6.5	Years

Solar Street Lights – Impact on Environment

Total Solar Street Lights Installed (KW)	Total Load reduced on Village MSEDCL Meter (KW/day)	Power Saving by total 0.58 KW Solar Street light working for 13 hr/day (KW/year)	Carbon Emission reduced by installing Solar Street light (Kg/Year)	This Project equals to planting trees every year (Nos/Year)
0.4	5.2	1898	350	250

4.8 Benefits

Solar Powered Pump Technology

Solar powered pump technology brings more convenient and cleaning solution for drinking water supply in rural village. The main advantage of the solar water pump is that it uses sunlight at no cost. Just as solar water pumps reduce dependence on electricity or diesel, once installed, there is no recurrence cost of electricity or fuel. Compared to conventional water pumps, solar water pumps require very little maintenance.

Millions of people around the world live with limited access to water. In many communities, ground water is extracted through electric water pumps, which uses diesel to fuel their systems. However, these systems are not only costly, but requires regular servicing and the purchasing of fuel, they emit carbon dioxide polluting the atmosphere.

Solar Water Pumping, or photovoltaic water pumping (PVP), works as an alternative. It is operationally, financially, and environmentally sustainable. Solar panels last around 25 years, and requires a little maintenance throughout this time. The whole system will draw the energy from the sun and directly run the water pump for water supply through by solar pump drive. There is nearly zero CO2 emission and friendly to the environment.

It is based on three kinds of proven technology such as,

- solar modular
- solar pump drive and
- pump facility

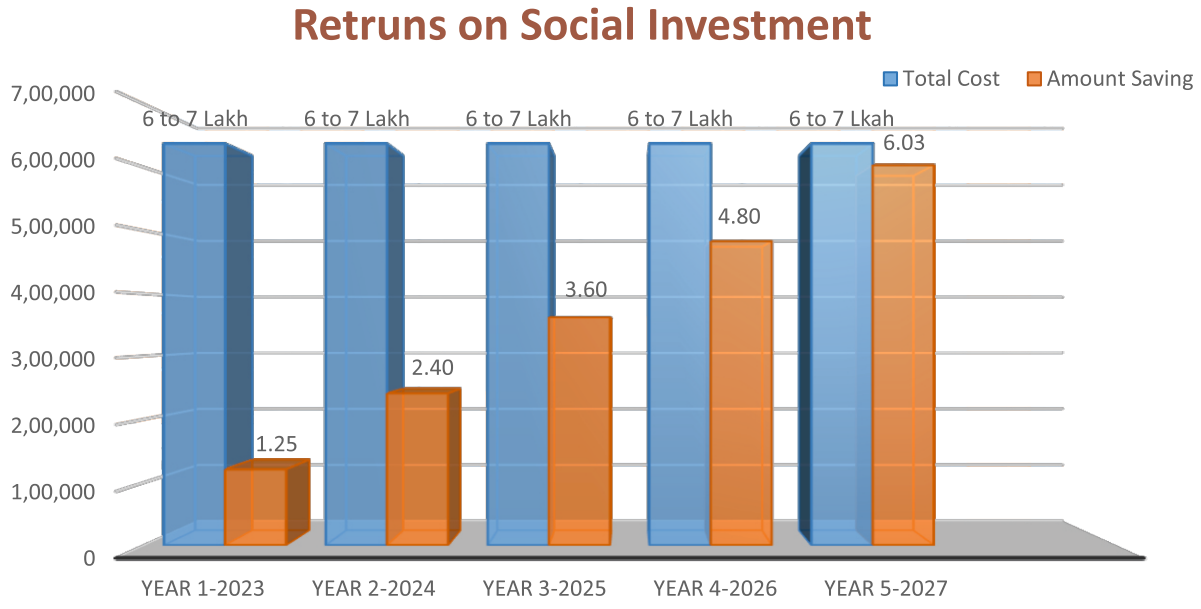
The work life of the system will be more than 15 years. Based on the more than 15 years lifetime-circle costing calculation the solar powered water supply system will reduce maintenance cost and release the folk labor force compared to the traditional solution.

The system is mobile operated. Hence, no need of physical presence to control water supply.

Graphical Representation of Cost

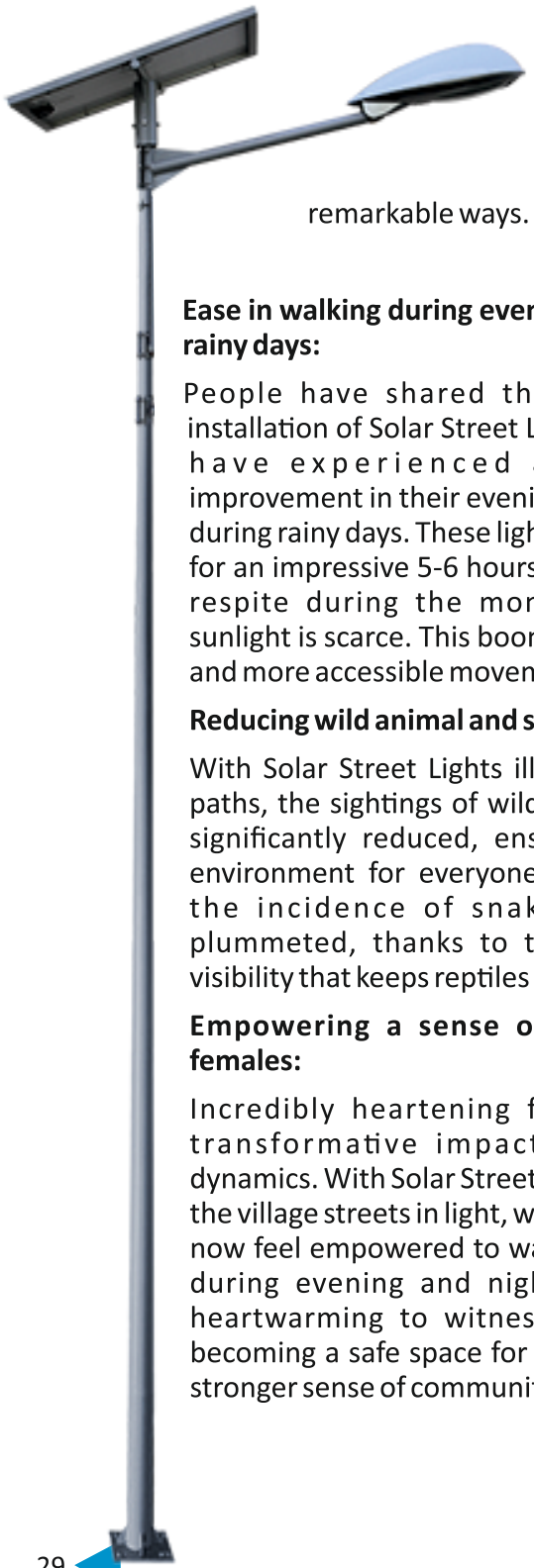
As mentioned in the graph below, the annual electricity saving is Rs. 120,750/-. The graph shows cost savings for thenext 5 years from the date of installation of the Solar Water Pump.

Thus the returns on social investment for next 5 years will be Rs. 6.03/-.



Solar Street Lights

Imagine strolling through the serene village streets during evening hours, raindrops gently falling, and feeling an unmistakable sense of ease and safety under the warm glow of Solar Street Lights. These incredible lights have woven a tapestry of positive change, transforming the lives of villagers in remarkable ways.



Ease in walking during evening hours and rainy days:

People have shared that since the installation of Solar Street Lights, villagers have experienced a dramatic improvement in their evening walks, even during rainy days. These lights shine bright for an impressive 5-6 hours daily, offering respite during the monsoons when sunlight is scarce. This boon ensures safer and more accessible movement.

Reducing wild animal and snake attacks:

With Solar Street Lights illuminating the paths, the sightings of wild animals have significantly reduced, ensuring a safer environment for everyone. Additionally, the incidence of snake bites has plummeted, thanks to the enhanced visibility that keeps reptiles at bay.

Empowering a sense of security in females:

Incredibly heartening facts show a transformative impact on gender dynamics. With Solar Street Lights bathing the village streets in light, women and girls now feel empowered to walk confidently during evening and night hours. It's heartwarming to witness the streets becoming a safe space for all, fostering a stronger sense of community.

A reliable source of illumination during power cuts:

When darkness descends during power cuts, Solar Street Lights shine brightly, becoming beacons of hope for the village. With their unwavering glow, these lights provide quality illumination, lighting up not only the streets but also the spirits of the inhabitants. Families gather outside their homes, sharing laughter and stories, basking in the warmth of the light during these moments of togetherness.

Enhancement in liveliness:

It has been observed that there is a delightful surge in social gatherings outside households after the installation of Solar Street Lights. These informal gatherings, bathed in the soft glow of the lights, have infused a new liveliness into the village. Laughter echoes through the streets as friendships strengthen and community bonds flourish under the magical ambiance.

The impact of Solar Street Lights on this village is a testament to the positive changes that sustainable and thoughtful initiatives can bring. Beyond mere illumination, these lights have ignited a sense of safety, empowerment, and community spirit. As the sun sets, the village streets come alive with light, life, and love – all thanks to the power of solar energy and the transformation it has brought to these lives.

20 Conventional LED street lights would have used approx. 84240, kWh of electricity in a year.

The initiative was able to save 84240, kWh of electricity in a year.

Clean & Hygienic Toilet for Girls

Enhanced Privacy and Dignity:

Private and safe toilet facilities protect the dignity and privacy of girl students. This is essential for their self-esteem and confidence, fostering a positive learning environment.

Increased School Attendance:

With accessible toilets, girls are more likely to attend school regularly, even during their menstrual cycles. The provision of sanitary pad dispensing unit and a changing room facility further encourages girls to attend and not miss classes.

Time Saving:

Having toilets within school premises saves time for girls, as they don't have to travel long distances to find a suitable place for sanitation.

Promotion of Gender Equality:

Providing toilets for girl students promotes gender equality by addressing a specific need and ensuring that girls have the same access to education and facilities as their male counterparts.







4.9 Future Plans

Similar kind of project execution in villages where same type of problems exists.

- Awareness about 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.







5. REFERENCES

External expertise

Solar power - Sun Tech India – Mr. Shubham Kaushik

Mobile app / website used

Drinking Water Standards and Regulations
National Primary and secondary Drinking Water Regulations.

Other references

Reference raters - Government of India Ministry of New & Renewable Energy

6. TESTIMONIALS

As the representative of the village, first of all I would like to express my heartfelt thanks to Howden and Deepastambha for completing the solar light, Solar water pump system and Girl's toilet. This project will help improve social security and wealth of Gram panchayat.



Vikramsingh Jadhav
Sarpanch



Girl's Toilet Beneficiary

I am grateful to Howden and Deepastambha Charitable Trust for giving us well structured and cleaned sanitation place in the school. As a girl, now I can feel safer in the school premises and now we can focus on our studies well.

Solar lights allow me and my children and my female companions to go out at night without fear. Even if we are alone at home, we are no longer afraid, and with solar water pump, we are now assured of clean drinking water.



Beneficiary
Solar street light

















Deepastambha Charitable Trust

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