

4. School Training

Zero Waste School training at Boudha, Kathmandu, Nepal

5 Schools located in Buddha selected for the Zero Waste Training. We decided to provide the training to grade 8 and 9 students. These students will be the role model and guide the school towards Zero Waste Solution. We divided the training for 2 groups, one for the administration and management staff of school and other for the students. We started with brief introduction of PGSN and then Zero Waste and then we discussed on the manual to be provided to the students during training. It was also made clear that PGSN will guide, provide technical support but they have to take the initiative towards Zero Waste. Since the school already has green group, so we asked them for their help to setup a core team for Zero Waste System for Zero Waste to be implemented. Bins for source segregation and Compost tank implemented by Pragma Seeds Nepal. Source segregation and composting started by the school team and Pragma Seeds Nepal is regularly supporting them technically.



5. Resource Recovery Facility (RRF)

Establishment of Resource Recovery Facility (Alapot)

Pragma Seeds Nepal has constructed 50 cubic meter bag digester to its Resource Recovery Facility (RRF)-Alapot (Sundarijal), with objectives to provide irrigation facility to local farmers. Pragma Seeds Nepal has also built compost plant for organic farming and developing as model firm. For this PGSN leased 6 ropani land in Sundarijal. The biogas plant is designed by GIZ and NBPA that will be able to produce electricity (3 kwh), which then can be used for irrigation system. It is estimated that more than 500 farmers will be benefitted from this system. RRF will also produce compost as compost tanks are established of capacity of 1 ton per day. The compost processing time is around 50 days.

The RRF will run as a private entity owned by institutional shareholders. The main shareholders will be the local women cooperative, the local Microfinance institution, PGSN and the garbage collectors. Locals of Alapot are already running the plant.



Establishment of Compost plant (Suntakhan)

Approximately 5 km away from Baudha, PGSN has established a plant for compost making. The plant will be run by NBSK but PGSN will provide the needed technical support. In the plant 5 1m X 1m X 1m tanks are established where the waste segregated from door to door campaign will be brought for compost making. The compost will be ready with in 30 days, depending on the weather and temperature. The leachate will be collected from the bottom of the tank and will be poured again back to the tank. Once the waste turns to compost, NBSK will be responsible for promotion and sale and the benefits from it will be used for the plant.

Benefits

A Zero Waste City Pilot Project, will have far reaching benefits for the environment and the residents who depend on it for their livelihoods, especially those in lower classes who suffer the most from environmental degradation. The processes of waste reduction and waste to resource included in our project will not only create income for the participants, but will provide environmental benefits, like clean air, soil, and water –greatly improving health and quality of life.

Despite the benefits, there are many challenges, constantly monitoring of the RRF and the Compost plant and also, regular refreshment training must be needed for continuous development of the project and also to get further more benefits.



an initiative by
- PRAGYA SEEDS NEPAL (PGSN)

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**Let's Clean Kathmandu
&
Make a Zero Waste City – (Boudhanath)**

CO-Funded



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About PGSN

Pragya Seeds Nepal is a Nepali NGO created by young Nepali entrepreneur that is concerned with spreading Zero Waste over Nepal, supporting the local economy and the environment through a community-approach of the obvious and worrying waste problem of this country. PGSN is coordinating Zero Waste Himalaya Nepal chapter. PGSN has over ten Nepali members as well as occasional foreign interns and associates. It is also ranked under top 10 nominee NGO of Nepal from World Bank and AEPC. It is directly supported by Thanal, an Indian NGO concerned with Zero Waste Asia. Pragya Seeds Nepal is coordinator for Zero Waste Himalaya Nepal chapter. Pragya Seeds Nepal is member of FAO-Mountain Partnership, Global Alliance Incinerator Alternatives (GAIA), CANSA and Zero Waste International.

PGSN has developed and implementing its pilot project Let's Clean Kathmandu and make Zero waste City in Boudhanath, Aalapot, Chitwan, Lumbini and Langtang together with various local groups towards Zero Waste in Nepal. It had also organised trainings and workshops in various municipalities, organisations, non-organisation, and local (women) groups. All together we have already given training to 760 persons of various high ranked officers and local community people. Same modality of Boudhanath program has also been replicating in Chitwan and other part of Nepal.

Mission

Promote access to scientific knowledge and practices thus enabling an informed confrontation of the human problem.

Pragya Seeds Nepal offers support to its local equivalents for setting up projects worldwide with the aim of improving the environment in which we live in a sustainable way.

Let's Clean Kathmandu and Make a Zero Waste City – (Boudhanath)

Let's Clean Kathmandu and make a Zero Waste City is a pilot project launched in Boudha area with the aim to reduce the waste and integrate waste to resource idea funded by SGP-UNDP.

The main objectives of the project are to:

Promote change of behaviour towards waste and proper waste management practises through awareness raising to the garbage collectors and inhabitants of Bouddhanath.

Develop a sustainable model of urban community based waste management.

Promote the productive end use of compost generated from organic wastes to improve livelihood of locals.

This pilot project will serve as a working model of the efficacy of the zero waste concept, which can then be replicated throughout the whole city of Kathmandu, cleaning and making it a Zero waste city, which then can serve as a model for other cities in Nepal and around the world.

1. Training Community

The main purpose of this project is to generate awareness about waste management and lead the community towards Zero Waste Solution. The main targeted group are the local housewives and youths. For this project, three training of trainees (ToT) has been provided to create 100 resource persons, of which 2 were in Boudha area and one was in Alapot area. These trainees then go to other local communities to generate awareness about zero waste solution. The trainees have been involved in other various activities organised by PGSN for this project. This training is based on the Zero waste Himalaya Resource person training supported by THANAL.



2. Zero Waste Rally

A rally was also organised to generate mass awareness about importance of source segregation and zero waste solution, where PGSN mobilised the resource person. In addition to this, PGSN has been providing training to local schools, orphanage and monastery to lead them towards zero waste institution. Furthermore, a door-to-door program was launched with the help of resource person to encourage the local community to segregate their waste from source. This segregated waste is then collected by Naya Boudha Sarsafai Kendra (NBSK), who will transport the organic waste to a plant established in Suntakhan for compost making. Segregated inorganic waste is sold to recyclers.



3. Zero Waste Center, Boudha

Establishment of Zero Waste Center (Bhuwaldanda, Boudha)

Pragya Seeds Nepal established Zero Waste Center in Boudha. Zero Waste Centre produces paper bags, cloth bags, paper jewellery and many more products, generating income through selling those products. The trained local women of Zero Waste Centre conducting training and provide support for local persons. Till date ZWC has trained 100 local women's/youth and sold products valued more than 50000 rupees. zero waste centre is also an information centre for the Let's Clean Kathmandu and make a zero waste City pilot project. Zero waste centre is a Resource Use Education Centre (RUEC) with the objective of product design and development, imparting training and building awareness about resource use. The Centre evolved from the need to complement the effort of the Zero Waste Himalaya Program, which demands ideas, products and designs that are diverse and eco-friendly. It has been able to share the lessons learnt in economical and ecological way of handling waste with local self governments, Institutions and the local people and has helped build relationships and partnerships among various stakeholders.

