

2007 - 08



ANNUAL REPORT

ECOSAN SERVICES FOUNDATION (ESF), PUNE, INDIA

Ecosan Services Foundation (ESF) is a section 25 non-profit company established in 2006 with the support of the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) and seecon international, in association with the Innovative Ecological Sanitation Network of India (IESNI). Ecosan Services foundation aims to transform into a sustainable key resource centre as a leading knowledge hub in sustainable sanitation and water management. With a unique mix of knowledge and experience; we work closely with the public and private sectors. Since the conception of this company, ESF has gained extensive experience in capacity development, policy building, awareness raising, project implementation and consulting in the field of sustainable sanitation. Please find attached our Capability Statement and brochure for your reference.



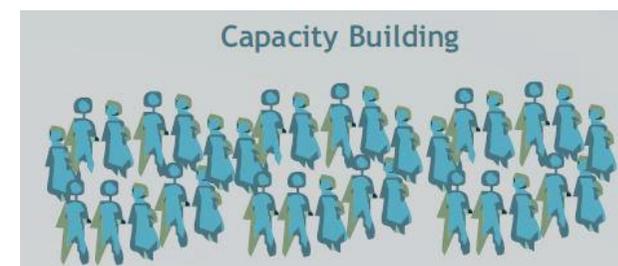
ESF offers professional services to various stakeholders like:

- Municipalities
- Non-Governmental Organizations
- Companies and Developers
- Private Individuals
- Educational Institutions

ESF offers full ecosan project packages including:

- Consulting
- Feasibility Studies
- Project Financing
- Technical Designing & Project Planning
- Project Implementation
- Operation & Maintenance
- Project Monitoring

ESF carries out Ecosan Training Courses, which follow a participatory, cross-institutional and interdisciplinary approach. Participants gain thorough theoretical and practical knowledge in the field of ecosan and enable participants to design, plan and implement their



MANAGEMENT MESSAGE

It gives me immense pleasure to present before you the annual report of Ecosan Services Foundation, for the financial year 2008-2009. I am sure the report will provide reflection of the various activities performed by ESF, along with its networking partners.

The chosen and adapted approach of organization – “An open source knowledge provider”, has proven to be strong back bone in overall growth, by having very strong affiliation with many likeminded organizations. This has helped to a great extent to increase ESF’s visibility across the country and region, in rural as well as urban areas, in sanitation sector, in which ESF has concentrated for its activities.

For year 2008-2009, falling in “International Year of Sanitation” saw up scaling of activities in sanitation world over. The highly neglected area of human life “Health & Sanitation” was brought to the centre stage by UN by declaring 2008 as International Year of Sanitation to give push to millennium Development Goals (MDG’s).

This also provided quite a boost to all those involved on water education, sanitation & working to bring overall improvement in environment conditions. ESF has been not only morally bound especially after receipt of last year’s UNESCO award for “Best NGO for Water Education in India”, but very much devoted to contribute its share to the achievement of the MDG’s.



DAYANAND PANSE



PRASHANT MAHAGAONKAR



JOHANEES HEEB



NILAKSH KOTHARI

VISION AND OBJECTIVES

Vision:

ESF aims to transform into a sustainable key resource centre as a leading knowledge hub in sustainable sanitation and water management

Objectives:

1. Developing sustainable organizational structure and processes.
2. Strengthening our position in capacity development through training, piloting and demonstration, awareness raising, R & D and coaching in new enterprises.
3. Strengthen our networking platform with national and international experts in the sector.
4. Open dissemination of knowledge through face-to-face as well as IT enabled services for institutions and individuals.
5. Quality Management and organizational learning to highlight best practices in the sector.



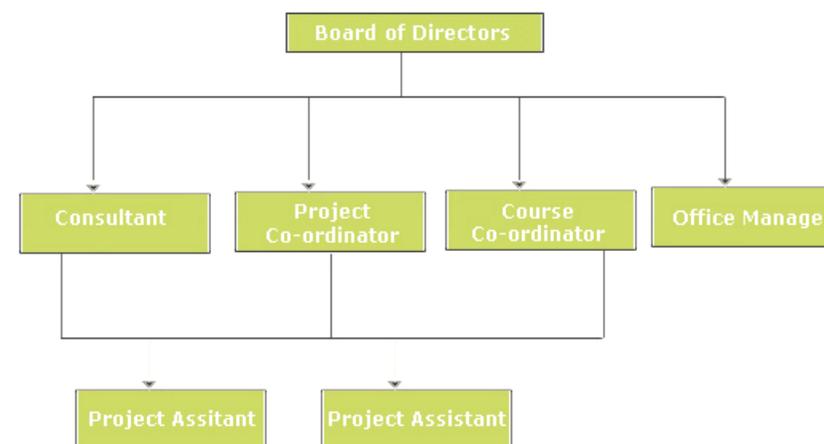
ORGANISATIONAL PROFILE

ESF is a section 25 non-profit company established in 2006, with the support of gtz.

From two members, ESF staff is extended to 8 People until the end of the financial year 2009 and is still growing. The registered office is situated in Pune, but activities are spread all over India.

The objective is to provide full ecological sanitation project packages including consulting, project planning, implementation, operation and maintenance and project financing.

ORGANISATIONAL CHART

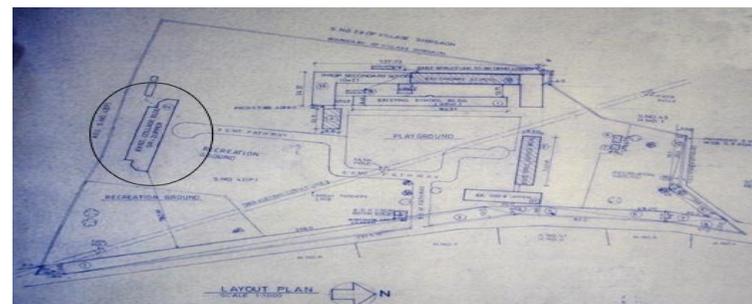


ESF PROJECTS

2nd feasibility study of Adarsha Vidya Mandir, Badlapur

“Adarsh Vidya Mandir School” is located in Badlapur town, in Maharashtra’s Thane district, about 68 kilometres from Mumbai and 34 kilometres from Thane. The Board of Adarsh Vidya Mandir School through Badlapur Municipal Council was in interest of the concept of ‘Ecological Sanitation’ and further in implementing technologies based on the same. Thus, ESF was assigned the task of performing feasibility study for further implementation of proper sanitation facilities along with sustainable treatment system in Adarsha Vidya Mandir by Badlapur Municipal Council. The whole area was studied and all parameters essential for designing of a system were collected. Quality was assumed and quantity of wastewater was calculated further. Considering client’s requirement, single-storied sanitation block, having two independent enclosures for ladies and gents, having sufficient number of lavatories, urinals (for ladies and gents) and washbasins to serve students attending Junior and Senior College as well as people attending special programs such as wedding ceremonies was suggested. Further to it, the wastewater generated was recommended to be treated in a Decentralized Wastewater Treatment System.

The 2nd feasibility study report thus is a preliminary draft of the ecosan prefeasibility study of the college and it only summarizes assumptions regarding detailed project planning of the favoured ecosan concept.



September training course

To overcome the gap of missing qualified personnel in the field of ecological sanitation, Ecosan Services Foundation (ESF) with the support of gtz provides ecological sanitation services and carries out training courses promoting the concept. The ecosan training courses provide knowledge to meet the challenges of successfully implementing socially, economically and ecologically viable sanitation projects. An Ecosan training course for “Capacity Building for ecosan in India” was held from September 3rd to 14th 2007 at NRTC Training centre, Nashik, Maharashtra. This was the second training course conducted by ESF. The training programme had participation from national and international level. Out of 20 participants, 17 Participants were from around 6 states of India, two from China and one from Philippines. The participants came from various professional backgrounds like engineers, scientists or students, some working in NGOs, Government agencies and private companies etc. Most of them had prior knowledge of ecosan and ample experiences in water supply and sanitation, rainwater harvesting and social work. The group interacted very well, there were many critical questions, lively discussions and strong networking.



Franco - India Conference on Technology, Innovation and The Millennium Development Goals in India, Tiruchirapalli, Tamilnadu (12th to 14th July'2007)

The conference was organized by

1. Institut National de la Recherche Agronomique, Paris, France
2. SCOPE, an NGO in Truchirapalli, Tamilnadu, India.
3. Bharatidasan University, Tiruchirapalli, Tamilnadu, India.

The objective of the conference was to explore technological solutions, organizational routines, social norms and public policy to attain the MDG while facilitating exchange between academics, NGOs, firms, funding agencies and policy makers. This conference was being specifically organized to bring about a dialogue between mainstream academics, NGOs, policy makers and private funding agencies. ESF was one of the attendees in the conference. This was one of the platforms for promotion of ESF and its activities like upcoming training programs.

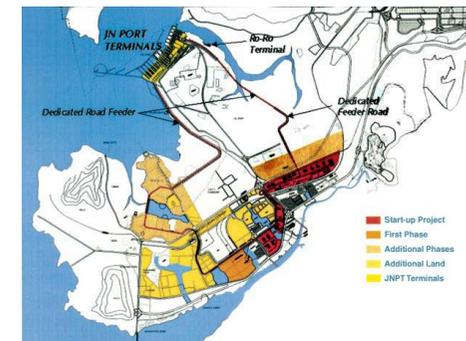
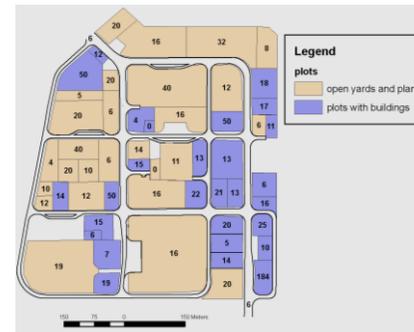


SEZ feasibility report

Dronagiri is one of the 14 nodal townships of Navi Mumbai. It is a project for the development of an Integrated Industrial Township, under the provisions of the Foreign Trade Policy of India and the SEZ Act. The township has been planned to be developed with world-class State of art infrastructure, utilities and services with clearly demarcated industrial, commercial, residential, social and recreational areas.

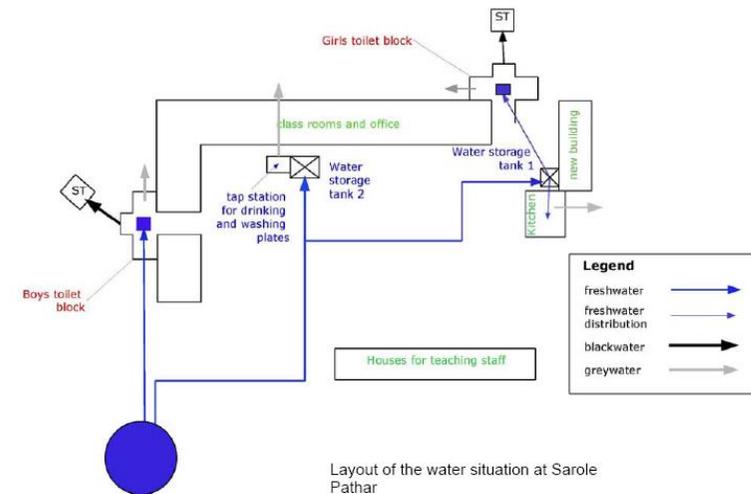
It was proposed to construct a Central Logistic Centre (CLC) in about 30ha of Dronagiri SEZ to facilitate the construction activities of the Dronagiri SEZ. In order to promote eco-friendly wastewater treatment, Ecosan techniques are proposed to be used for treatment of wastewater being generated from this CLC area. Thus, ESF had been assigned the task of performing feasibility study of the area.

This feasibility study is divided into 4 main parts. Part 1 describes the situation on the CLC area as it is currently planned from the respective planers and architects of RELIANCE without any ecosan measures. It shows the amount and sharing of people and toilet facilities on the plots and the resultant water consumption and wastewater production at each spot. Part 2 describes the proposed ecosan solution with all its parts. It begins with an overview over the proposed system and then in detailed descriptions of all steps and parts of the system. Part 3 is the cost calculation of the proposed ecosan solution. Part 4 includes conclusions, explanations and further possible ecosan options for the CLC.



Shree Baleshwar Tribal Primary and Secondary Residential School, Sarole Pathar - Initial survey

ESF has been assigned the task of implementing Ecosan project for wastewater generated in the school premises as pilot plant project. The school is a residential school comprising of students from standard 1st - 7th which later on has been planned extend till 10th standard. Currently the school accommodates 162 boys, 155 girls; 9 male and 2 female teachers, 2 males and 5 female non-teaching staff. ESF has been appointed as a consultant and facilitator between the school and Gram Panchayat and other agencies during design, construction and operation stages. ESF performed an initial survey of the site during which all the roles and responsibilities of each party were discussed. Finalization of site location and collection of essential design parameters have been carried out. There is open space behind the school building which was finalized as the site for wastewater treatment system. there are septic tanks present for the treatment of brown water coming from the toilets of the students



Urine Diversion Dehydration Toilet (UDDT) project, Thergaon village – Initial survey

Thergaon, a village in District Nashik, Maharashtra; is a 'Nirmal gram' village and each household has a pit latrine. There was a village meet organized in Thergaon village, where ESF basically aimed at explaining the advantages of ecological sanitation (ecosan) and reuse of human waste as fertilizer to the villagers. Almost all the inhabitants have agriculture as their primary occupation; thus benefits and need of ecosan were well accepted. 2 farmers showed responsibility and willingness of constructing and reusing human waste as a natural fertilizer in their farms; and also signed a Memorandum of Understanding with ESF. ESF has been acting as consultant during the whole project period, thus ESF team with the stakeholders took an initial survey of the location to finalize the site for construction of UDDT at 2 locations. Essential design parameters for the design and drawings of the UDDTs were collected and further submitted to the stakeholders by ESF.



Asia pro Eco meeting, Delhi, November 2007

The meeting was held among Ecosan Services Foundation; European Commission, seecon international; Switzerland; ttz

ESF was proposed as the lead coordinating organization in IESNI / Asia pro eco coordination. Further to it, various topics related to ... were discussed. To name some are strategies on implementing sustainable projects, different low cost technologies, carrying out of e-learning courses etc. Besides, discussion with regard to developing an effective Ecosan system management logistic, Research and Development of existing and upcoming ecosan projects promotion of capacity building activities which include school sanitation, potential users, awareness campaign, demo projects, and spin off programs should be carried out.

Participation (presentation) in Plumbing Association, Mumbai Chapter

ESF has presented the concept of Ecological Sanitation and its necessity through a presentation in the Plumbing Association conference held in September 2007. Around 80 technical experts working in the field of sanitation and transportation system were attendees of the conference.



ESF ASSOCIATES

WORKING ASSOCIATES



FUNDING ASSOCIATES



LOOKING AHEAD

- Ecosan must be further **promoted on all levels**, in particular for rural or peri-urban areas and for schools. These are areas where the sanitation coverage is particularly low, or where improved hygiene and sanitation behaviours can have the long-lasting impact.
- Furthermore, still more efforts must be put in **capacity building** with all relevant stakeholders – there is still a significant lack of skilled personnel who can actually design and implement ecosan approaches, and further work is also necessary to more firmly root the approach on an institutional level.
- In order to apply **logistics** and **reuse** projects on a larger level, an increased effort is necessary to build capacity in the agricultural sector, and to implement reuse solutions in cooperation with professionals from the **agricultural sector**.
- Further efforts are needed to implement cost-effective and reuse-oriented sanitation systems that are **mass replicable**, include treatment, reuse and logistics systems that can be easily reproduced. Such concepts are based on a better monitoring of case studies, and improved **operation and maintenance** concepts.
- There is a need for further interaction on continued level with all those stakeholders and especially govt dept. who have now concentrated on Solid/Liquid waste management post open defecation free areas.

ESF STAFF 2007 - 2008

Board of Directors:

Mr. Dayanand Panse

Mr. Prashant Mahogaokar

Mr. Johannes Heeb (seecon Ltd.)

Mr. Nilaksh Kothari

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Project Coordinator

Mrs. Sreevidya Satish

Course Coordinator

Mrs. Deepa Panse

Office Manager

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Chief Engineer

Mr. Michael Kropac

Project Manager India

Mr. Nanchoz Zimmermann

Executive Engineer

Mrs. Annick Staub

Intern