INTERNATIONAL SEMINAR ON SDGs

Thematic Session on Sanitation and Hygiene (SDG-6)

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SULABH INTERNATIONAL SOCIAL SERVICE ORGANISATION

International Seminar organised by ICRIER & THE EMBASSY OF JAPAN IN INDIA

At
Claridges Hotel, New Delhi
15th March 2019
• Breeze of social change is blowing in India due to the impressive implementation of SBM

• SDG-6 is being monitored at Global level by UN agencies and at National level by NITI Aayog (SDG India Index) and SBM by the nodal Ministries concerned

• Contributions of Sulabh International, a non-profit, in collaboration with state and private sector, for achieving goals of SBM and targets of SDG-6 are being shared in this presentation
SULABH INTERNATIONAL
SOCIAL SERVICE ORGANISATION

Background
• Based on the Gandhian philosophy, founded in 1970
• Nationally and Internationally acclaimed Organization
• NGO in General Consultative Status with the EcoSoc of United Nations
• Working all over the country as well as in different parts of the world
• Social work force of over 60,000 volunteers

Dr Pathak invented the following technologies
- Two Pit Pour Flush Compost Toilet known as Sulabh Shauchalaya
- Human excreta based Biogas Plant
- Sulabh Effluent Treatment Technology
- Maintenance of Public Toilets on ‘Pay & Use’ basis
DR. BINDESHWAR PATHAK

Founder, Sulabh Sanitation & Social Reform Movement - set up Sulabh as a Philanthropic, Human Rights and Social Welfare organization in 1970

Sulabh is a philosophical, spiritual and value based organization rooted in emancipation of scavengers, widows and working for a clean environment
CONTRIBUTION OF SULABH FOR SBM

• Till date, Sulabh has installed more than 15 lakh household toilets in the country

• Constructed and maintained about 9000 community/public toilets (about 200 are attached with bio-digesters) at public places

• Constructed about 20,000 school toilets in different parts of the country. Above-referred toilets are being used by about 20 million persons every day

• In addition, more than two lakh scavengers liberated from manual scavenging and being trained and rehabilitated
DR. PATHAK CARRYING HUMAN EXCRETA ALONG WITH HUMAN SCAVENGERS AT ARRAH, BIHAR
Sulabh toilets have 2 pits, one of which is used at a time. When one becomes full then the other pit is used. Both the pits are used but one at a time.

After 2 years, in the first pit the excreta turns into bio-fertilizer, which can be cleaned by anybody and then be used safely in fields/gardens.
WATER SAVING P-TRAP USED IN SULABH TWO PIT POUR FLUSH COMPOST TOILET

It requires only 1 to 1.5 litres of water to flush

Ceramic Pan with 25° to 28° slope

P – trap is between 12-20 mm water seal

Pre-cast P-trap
Thatched wall with roof on bamboo frame

Cost Rs. 12,655/-

Brick wall with no door

Cost Rs. 19,022

Brick wall with jute curtain

Cost Rs. 16,600/-

Circular design without door and roof for people who feel claustrophobic

Cost Rs. 21,700 /-
On 27 May 2014, an alleged gang rape & murder of two teenage girls was reported in the Katra village, Badaun district, Uttar Pradesh, prompting Sulabh to constructed 108 household toilets in the village.
HOUSEHOLD TOILETS IN LUDHIANA, PUNJAB
SPONSORED BY BHARTI FOUNDATION
HUMAN EXCRETA BASED BIOGAS PLANT

- Human excreta recycled resulting in the production of bio-gas
- Used for cooking, lighting, electricity generation & warming oneself in winter

Public toilet linked to biogas plant with gas holder
USES OF BIOGAS

Biogas used to warm oneself in winter

H.E. Timothy Roemer, former Ambassador of USA to India trying his hand in frying a papadam

Biogas used for lighting of mantle lamps
SULABH EFFLUENT TREATMENT PLANT

- Biogas effluent treated through sedimentation tank, aeration tank, sand filter, activated charcoal followed by Ultra Violet (UV) rays
- After the treatment the Biochemical Oxygen Demand (BOD) reduced to less than 10 milligram per litre and treated effluent turns colourless, odourless and pathogen-free
- Safe for aquaculture, agriculture, gardening & discharging into water body
FIRST SULABH PUBLIC TOILET COMPLEX CONSTRUCTED & MAINTAINED AT GANDHI MAIDAN, PATNA, BIHAR
SULABH PUBLIC TOILETS

- Introduced system of maintenance of public toilets on “pay and use” basis in 1974
- More than 8500 public toilets which are being used by >15 million people daily

Sulabh Toilet Complex in the world at Shirdi (Nasik), Maharashtra

It has 148 toilets with dressing, baby sitting, breast feeding facilities and 108 bathrooms, 2,300 lockers for keeping the belongings of pilgrims. The complex is lit by electricity produced from the human excreta generated biogas plant. 50,000 persons can use these facilities daily.
Cloak Room facility at Sulabh Toilet Complex, Shirdi, Nasik, Maharashtra
SULABH SHAUCHALAYA SHANKUL
AT PANDARPUR, SOLAPUR, MAHARASHTRA
Sulabh Toilet Complex (Air-Conditioned), Lucknow, Uttar Pradesh
Sulabh has constructed **five public toilet** complexes with biogas plants in **Kabul**, funded by the Ministry of External Affairs. These projects have been executed and completed in collaboration with Kabul Municipality, where the temperature went down to -30°C and also biogas plants functioned very well.
SCHOOL TOILETS AT HYDERABAD FUNDED BY ONGC
CHILD FRIENDLY TOILET KNOWN AS ‘BAL MITRA SAUCHALAYA’ AT BHOPAL, M.P.
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SCHOOL SANITATION - SULABH APPROACH
A SCHOOL STUDENT ARRANGING THE WOOD PULP FOR THE NAPKIN MAKING PROCESS
A SCHOOL STUDENT USING THE ELECTRIC NAPKIN INCENERATOR
Dr. Pathak established Sulabh International Museum of Toilets in 1992
The Museum has rare collection of facts, objects & artifacts detailing the historic evolution of toilets from 2500 BC to date
Extensive display of privies, chamber pots, toilet furniture, bidets and water closets in use
Rare collection of poems, humorous posters on toilets and its usage
Toilet Museum is a famous tourist destination in Delhi
The Pilot Project of Sulabhb International aims to ensure arsenic-free safe drinking water at a very low cost of 50 paise per litre
REACHING OUT TO THE ARSENIC AFFECTED PEOPLE OF MADHUSUDANKATI, WEST BENGAL
WATER ATM AT SULABH INTERNATIONAL
PHILANTHROPIC & CHARITABLE WORKS BY SULABH INTERNATIONAL

- Vocational Training Centers for erstwhile scavengers at Alwar, & Tonk and Ghaziabad
- Widows of Vrindavan (600)
- Widows of Varanasi (200)
- Widows of Deoli village, Uttarakhand (56 & 350 FAM)
- Education, Health, Marriages of Poor
- Sulabhb Public School
- Sulabhb Vocational Training Centre
- Sulabhb Sanitation Club
- Slum Children Welfare
‘DARKNESS TO LIGHT’ -
An Initiative towards Rehabilitation of Scavengers

‘Darkness to Light’ Vocational Training Centre was set up at Alwar, Rajasthan in April 2003, to liberate and rehabilitate women hitherto engaged in the profession of scavenging till March 2003
Women scavengers taught to read and write through adult literacy classes
Liberated scavengers now go to do facial of the women where they used to clean human excreta and some of their clients are doctors.
MISSION LIBERATION

The erstwhile women scavengers walked the ramp with the models at the United Nations in New York on 2nd July 2008.
TRANSFORMATION OF MS USHA CHAUMAR

Erstwhile manual scavenger carrying human excreta in 2003 and now President of Sulabh International

Ms. Usha Chaumar now Sharma, receiving India Today - Safaigiri Award from Hon’ble Prime Minister on 2\textsuperscript{nd} October 2015
EMANCIPATION OF WIDOWS

• Dr. Bindeshwar Pathak started working for restoring the human rights and dignity of untouchables from 1968 and realized that there were similarities in the emancipation work for widows.

• Although widows were not exactly like the untouchables, they were treated like untouchables, being forbidden from wearing colored cloths or singing or participating in any auspicious family functions.

• Sulabh was able to restore the social dignity of the widows and now they live normally, wearing colored cloths, celebrating festivals like Holi, Diwali, Durga Puja, Christmas, etc.
WIDOWS OF VRINDAVAN - PATHETIC CONDITIONS
WIDOWS OF VRINDAVAN BREAKING TRADITION AND CELEBRATING HOLI FOR THE FIRST TIME AFTER BEING WIDOWED
WORLD TOILET DAY AND NATIONAL CONFERENCE
ON 19TH NOVEMBER 2015

Bindeshwar Pathak
Founder, Sulabh Sanitation & Social
Reform Movement

Hema Malini
MP, Lok Sabha
WORLD TOILET DAY

on the theme of
"SAFETY MEASURES FOR CLEANING SEWERS TO PREVENT DEATHS OF SEWER WORKERS"

ON
NOVEMBER 19, 2018, AT 10:30 AM
AT
MAVALANKAR AUDITORIUM
RAFI MARG, NEW DELHI

Equipment for cleaning sewers to prevent deaths of sewer workers

Special purpose vehicle mounted, Electro-hydraulically operated, Sewer Jetting cum Rodding cum Mechanical manhole desilting machine
Desilting Machine

Rodding System:

Personal Protective Devices
SEWER QUICK VIEW PIPE INSPECTION CAMERA

• The Camera is designed to facilitate rapid inspection of manholes, sewer, tunnels, tanks, mainline and other lateral pipelines facilities

• The detection results, include video, image and auto-generated report

• The camera sensor features 36*optical zooming function, capable to capture pipe details from a distance up to 100m
MR AKSHAY KUMAR AT SULABH GRAM
ON 3rd MARCH 2017
In 1991, Dr. Bindeshwar Pathak was conferred Padma Bhushan by the then President of India, Shri R. Venkataraman, for his ‘distinguished social service’
His holiness Pope John Paul II gave audience to Dr. Bindeshwar Pathak before being awarded International St. Francis Prize for the Environment (Canticle of all creatures) in 1992.
Mayor of New York, USA proclaimed to celebrate April 14th, 2016 as “Dr. Bindeshwar Pathak Day”
Dr. Bindeshwar Pathak declared Brand Ambassador of Swachh Rail Mission in November 2016
THE 23rd NIKKEI ASIA PRIZE WINNER 2018
for
'Culture and Community'
DR. BINDESHWAR PATHAK
Founder, Sulabh International Social Service Organisation
DR. PATHAK RECEIVING ‘MAHATMA GANDHI PEACE PRIZE’ FROM HON’BLE PRESIDENT OF INDIA ON 26.02.2019

This Award to Sulabh was referreded again by Hon’ble Prime Minister on 3\textsuperscript{rd} March at Patna and by Hon’ble President on 6\textsuperscript{th} March 2019 at New Delhi
**NEW BUSINESS MODEL: TOILET ECONOMY**

Toilet Economy is related to the provision of basic sanitation services; mainly focuses on toilet construction, operation, maintenance and cleaning.

Adapted from: [http://www.toiletboard.org/media/30-Sanitation_Economy_Final.pdf](http://www.toiletboard.org/media/30-Sanitation_Economy_Final.pdf)
Circular Sanitation Economy deals with the cost-effective re-utilization of human/other biological waste, to produce a wide range, etc. of products, such as agricultural products, energy, water, protein.
Smart Sanitation Economy builds on the sanitation infrastructure to provide health information insights. This approach entails the installation of smart sensors into toilets and sewage systems to provide rapid data collection and analysis of health indicators.
LEVERAGING CSR TO ACHIEVE SDGs

Source: https://assets.kpmg/content/dam/kpmg/in/pdf/2017/12/SDG_New_Final_Web.pdf
NUMBER OF COMPANIES PARTNERED WITH SULABH FOR SBM

![Bar chart showing the number of companies partnered with Sulabh for SBM from 2014 to 2018.](image)

- **2014**: 29 Companies, 0 New Companies, 17 Repeat Companies
- **2015**: 57 Companies, 46 New Companies, 11 Repeat Companies
- **2016**: 38 Companies, 21 New Companies, 17 Repeat Companies
- **2017**: 33 Companies, 12 New Companies, 21 Repeat Companies
- **2018**: 34 Companies, 17 New Companies, 17 Repeat Companies
SOME CSR PARTNERS OF SULABH

For SBM, Sulabh partnered with 125 Companies / Foundations during 2014-2018:

• Abbott India, Bharti Foundation, Boeing India, Flometallic India, Honda Motorcycle & Scooters India Ltd, Maruti Suzuki India Ltd - Household Toilets

• Bata India, HDFC Bank, IGL, ONGC, Petronet LNG Ltd, NABARD Financial Services Ltd, Koch Chemical, NALCO, NPCIL, THDCIL, SBI - School Toilets

• CONCOR, HPCL, Indus Towers, NCDC, NTPC, MMTC, Veolia Waters - Community / Public Toilets

SULABH HAS THE BANDWIDTH, PARTNERS ARE WELCOME TO PLAY, REPLAY OR DISPLAY THEIR PRODUCTS, TECHNOLOGIES OR INNOVATIONS