

Preparation of City Sanitation Plans of 10 Urban Local Bodies of Andhra Pradesh



Final Outputs from the Joint Activity of DMA, Govt. of Andhra Pradesh, GIZ and CSE
30.03.2017

The objective

Urban Local Bodies are capacitated to prepare and implement the City Sanitation Plan - a city-wide planning document for the entire sanitation sector.

- The plan is elaborated with active involvement of local stakeholders.
- An Action Plan is elaborated and the CSP is implemented through actions on the ground.
- The state is guiding and supporting the Urban Local Bodies in this process

→ Using a planned and participatory approach improves sanitation services on the ground



Training programme for CSP preparation process

HANDHOLDING PROCESS (by state sanitation cell)

CSP Preparation
Training – Part 1

CSP Preparation
Training – Part 2

CSP Preparation
Training – Part 3

CSP
review
workshop

- CSTF formation
- Status Report preparation

- Demand Supply gap analysis
- Key issues
- Prioritization

- Review of key issues
- Sectorial strategies
- Action plan

Initiating CSP



Preparation of
Status Report



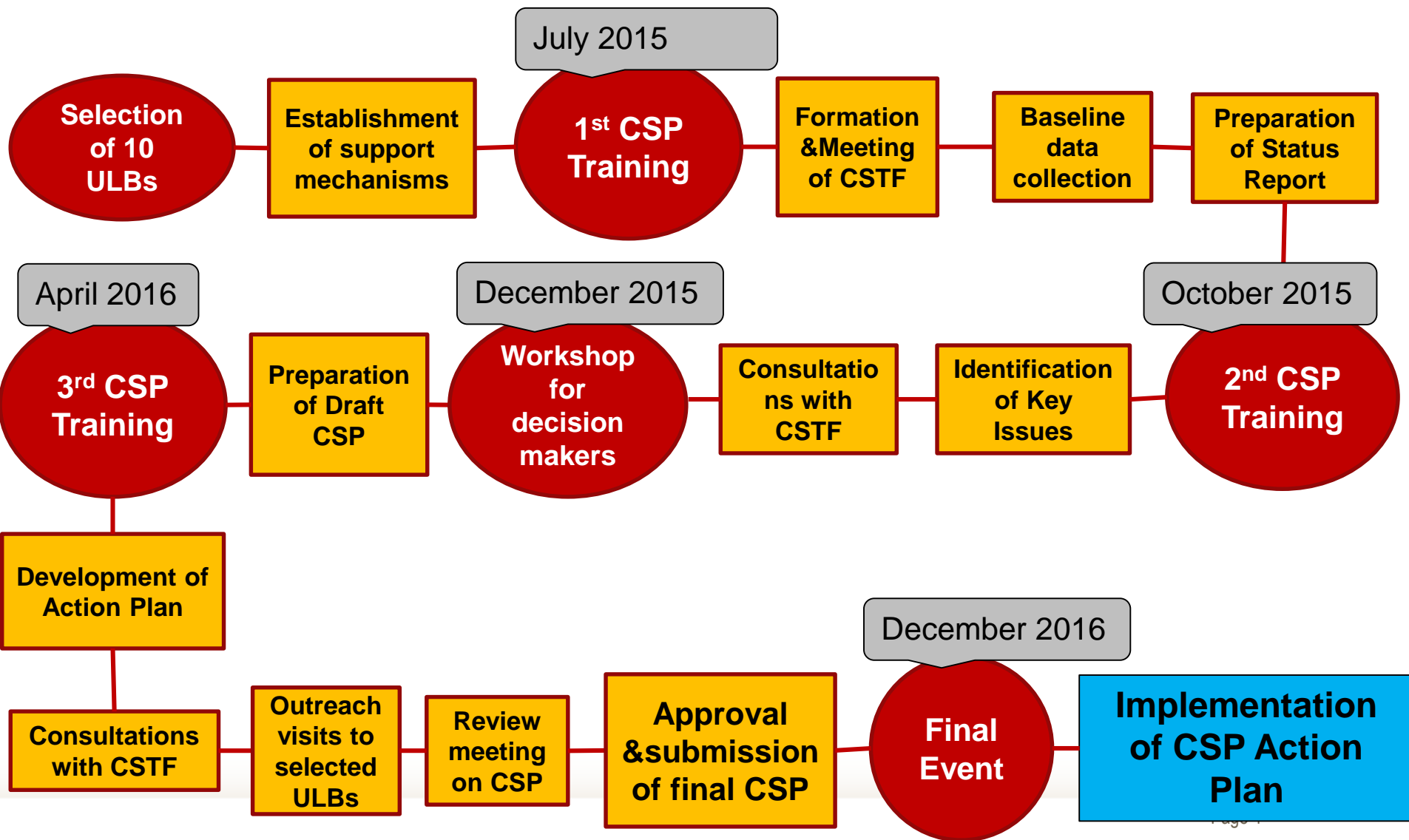
Draft CSP



Final CSP



The joint AP CSP Journey



Training Programme on Preparation of City Sanitation Plan (CSP) – Part II Vijaywada, Andhra Pradesh • 14 to 16 October 2015





Results and Achievements

- 3 Trainings with all 10 Urban Local Bodies completed
- Workshop for Decision Makers held on 18th December 2015
- 100% CSTF formed and notified. Meeting were held in all cities
- CSP was connected by all cities to SBM and AMRUT activities
- 100% Final CSPs submitted
- 90% of CSPs approved by the Municipal Council
- All cities have adopted concrete Action Points for tackling the key issues



Observations from CSPs

- All cities have successfully collected the main data from various schemes and departments
- Taking ownership for city-wide planning process is a new experience for cities
- Cities have achieved identifying the main key issues
- Translation of key issues into actions was the main challenge

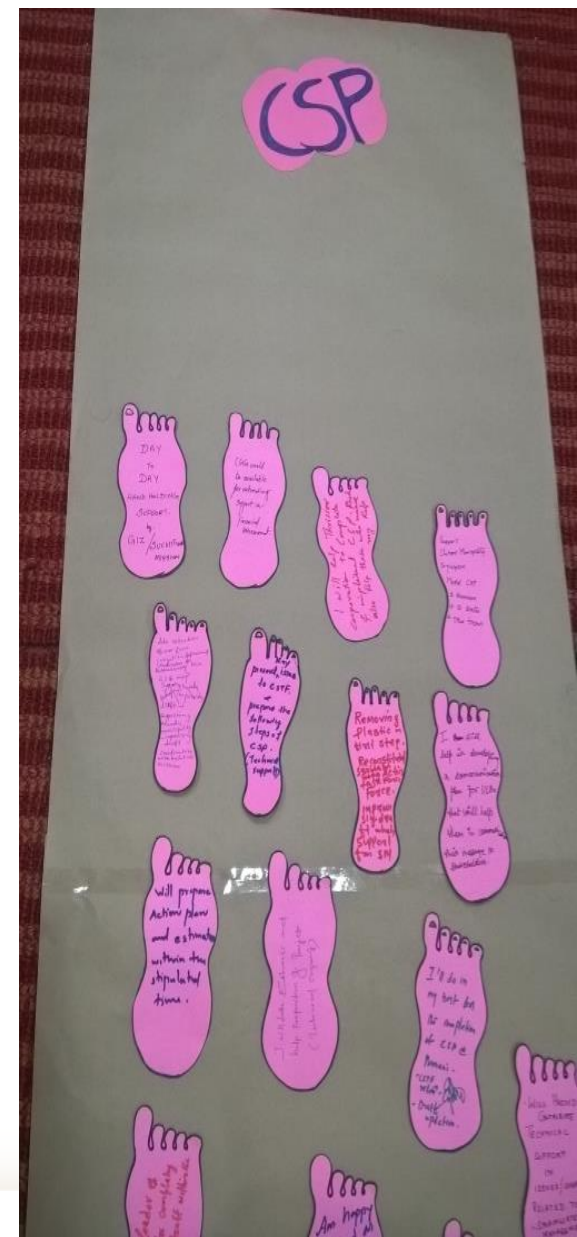
Bringing the CSP into action is the biggest challenge





Next Steps towards implementation of CSPs

- Implementation of Action Plan needs to be monitored every 6 months by the City Sanitation Task Force
- Selected measures proposed in all City Sanitation Plan should be monitored by DMA through the on-going monitoring mechanisms
- Upscaling of CSP Approach to other ULBs using CSP Tool-kit and model CSPs from 10 ULBs
- Dissemination of results from CSP Training and Handholding Programme via website of DMA
 - CSP Tool-kits
 - Submitted CSPs



City-Wide Key Issues

Solid waste dumping site is located on the banks of the canal stream that has adverse environmental implications

Though individual toilet construction activities are progressing to their completion, the access of the lower income settlements to public toilets is a matter of contention in the town

No systematic or organized method to collect, convey and treat fecal sludge (Fecal sludge management) collected from the pits and septic tanks of the town.

The coverage of individual water supply connections to households is low

An important issue with the municipality is the limited quality of data (due to lack of monitoring and evaluation). Across all the basic needs services there is lack of consistency in the data availability for the service level benchmarks

CSP Amalapuram



CSP Short term Actions:

Public toilet provision at Circular Bazaar and Village Chawdi by mid 2017

Demonstration of a pilot plant for co-treatment of fecal sludge and biodegradable solid waste

A Performance Assessment framework to be introduced by 2018 to unify all service level benchmarks under one window

Retrofitting and onvertsion of all unhygienic toilets to hygienic toilets by 2019.

CSTF Members

Sri Yalla Malleswara Rao, *Chairperson (Head of the CSTF)*

Sri Ch. Srinivas, *Commissioner (Convener)*

Smt. P.Mary Jasmin, *TLF president*

Sri T.Prakash, *Sanitary Inspector*

Sri GSVVSSNV Prasad, *Dy. E.E ., Municipality*

Sri A.Bapayya Naidu, *Educational Institutions*

Sri P.Johnpaul, *N.G.Os Walkers club*

Dr. D. Ramachandra Rao, *Medical practitioner*

Sri Nimmakayala Raja Rao, *Social Worker*

Sri T.Gopi, *PHW president*

Sri Achanta Venkateswara Ra, *Print Media (Andhra Jyothi)*

Sri Korlapati Pradeep, *Electronic Media*

Sri Pindi Saibabu, *Lecturer (colleges)*

Sri Allada Srinivas, *Resident Welfare Association*

Sri Siragam Venkatarao, *Sanitary Contractor*

Sri T.Narasimha Murthy, *Street Vender Association*

Sri Kala Venkata Rao, *Advocate*

Smt. Lakkimsetti Suryakumari, *Business Women*

Sri Papaganti Koteswara Rao, *Safai Karmachari Union*

Increasing water supply connections across 3 years

Streamline the operations for collection and conveyance process of fecal sludge and its emptying in a regulated manner

	KEY ISSUE
1	Lack of proper segregation and treatment of Solid Waste
2	Suitable dump yard – Technical land fill not available
3	Implementation of G.O No.279
4	Implementation of 100% ODF by end of 2016
5	Lack of treatment for both black and grey water. Both types of wastewater are mixing in the same drain
6	Lack of Enforcement of laws
7	Lack of Human Resource management
8	Lack of Cost recovery

CSP Anantapur

First short-term actions planning under CSP Action Plan

- **Planning and implementation of septage management plant**
- **Training of ULB Officials and Self Help Groups**
- **Construction of 5 new Public Toilets**

	Name	Designation
1	Smt.M.Swaroopu	Hon'ble Mayor
2	Sri.E.Surendrababu	Commissioner
3	Dr.Venkatarama DM&HO	Representative From Health Department & or Government Hospital
4	Sri.R.Ankaiah Superintendent Engineer PH	Representative from Anantapuramu of PWD (Engineering)
5	Dr.K.Gangadhar Reddy	Municipal Health Officer
6	Smt.Rahamath Bee	Standing Committee Member & Corporator
The following members will be co-opted into the aforesaid committees as per their interests and experience		
07	Sri.N.Gangi Reddy	Sanitary Supervisor
08	Sri.S.Sudhakar	S.S. Association President
09	Sri.Kistappa, Dy.EE	Representatives from NGOs
10	Sri.J.Surendranath	Environmental Engineer
11	P.Rangaiah	Representatives from Merchant / Trade Association / Chambers of commerce
12	Paila Reddy SKU Professor, ATP	Representative from Educational Institutions
13	Sri.Penna Obulesu President Safai Karmachari	Representative from NGO's workers, recycling agents
14	Smt.Sarala	Corporator
15	B.Sudarshan	Corporator
16	Sri.Subhakumar C.I. public urban	Representative from local police department
17	Ramireddy, Advocate	Representative of the lawyers

Key Sanitation Issues

- Waste-water is not properly managed (i.e. there is no proper collection, conveyance & treatment of waste-water), leading to unhygienic conditions & pollution of water bodies.
- Prevalence of insanitary toilets and improper maintenance of Public and Community Toilets, leading to detrimental environmental and health hazards.
- Insufficient and inefficient Storm water management leading to unhealthy towns.
- Poor cost recovery and collection efficiency in water supply related services leading to poor services to the citizens / users.

CSP Bhimavaram

First short-term Actions planned under CSP Action Plan:

- To make Bhimavaram as Open Defection Free Town.
- Ensure proper waste-water (sewage & septage) management (collection, conveyance, treatment & disposal) by 2020.
- Achieve at least 90% cost recovery and 90% collection efficiency in water supply related services.
- To achieve Swachh Bharat mission Goals
- To Renovate and replace the existing water distribution network under AMRUT & 13,14 Finance Commission funds.
- Ensure all existing and new toilets (IHHT, PT & CT) are sanitary and properly maintained (to cover the current and future demand) by 2019.

CSTF Members

Name	Designation
Sri. Kotikalapudi GovindaRao	Chairperson (Head of the CSTF)
Sri Ch.Naga Narasimha Rao	Commisioner(convener)
Sri N.V. NageswaraRao	Assitant Commissioner(Nodal Person)
M.Suryanarayana Raju	Vice –Chair person (Member)
P.Srikanth	DEE Environment
G.V.Satyanarayana Murthy	Assistant City Planer
K.Prasad	In-charge Health officer (Member)
Prabhakar Rao	Municipal Engineer (Member)
Sri Tanala Krishna Bangaru Peddi Raju	Plastic Merchant's Association Public Health Worker (Member)
Sri B.Ramu	Public Health Worker (Member)
M. Satyanarayana	Rtd Professor (Member)
C.Ranga Sai	Convener Jana Vignana Vedika
Sheik Syeda debe	TLF President (Member)
Dharma Raju	Press Reporter (Member)
Sri V.Linga Murthy	Press Reporter (Member)
Smt. A. Naga Valli	5 th Ward (Member)
Smt S.Rajeshwari	13 th Ward (Member)



Key sanitation issues of the city identified in CSP:

- Poor functional status of storm water drains.
- Less per capita water supply, Yes 99 LPCD
- Absence of septage treatment facility.
- Filling of SS tank is the main Problem the off take for filling of SS Tank Tail end point to the NS canals additional ELSRs to be constructed for distribution of water.
- Encroachments on major drains.
- Overall balance is negative, as operating expenditure more than the operating income.
- Low cost recovery results in loss of revenue putting burden on Municipal finances.
- Enhancement requires training to the executives of staff on latest technology updates.

List of CSTF

G.Chenchu Kumari , Chairperson
N.Kanaka Rao, Commissioner
A.Srinivasa Reddy, DEE
A.Ravi Kumar, TPO
A.Ramachandra Rao, S.I
Dr.Arun Kumar Mahanth
Sk.Gowsiya
Anne Ratna Prabhakar

Kunala Subramanyam
Sk.Habib John
P.Venkata Subba Rao
Dr.P.Krishna Mohan
Gatta Hemanth Kumar
T.Sita Ramaiah
Tella Subba Rao

CSP Chilakuluripet



First short-term Actions planned under CSP Action Plan:

- As per GO. 279 for privatization of Solid Waste Management (Micro Packets) Administrative Sanction and Technical Sanction an amount of Rs.15.05 Cr sanctioned and the work is in process.
- Agreement concluded with M/S JTF Urban Infrastructure Limited for setting up Municipal Solid Waste to Energy Processing Facility.
- Achieve Service Level Benchmarks (as defined by MoUD) in Solid waste management by 2020
- Ensure all existing and new toilets (IHHT, PT & CT) are sanitary and properly maintained (to cover the current and future demand) by 2019 .
- Ensure comprehensive and efficient Storm water management by 2019 .

	City Wide Key Issue
1	Lack of inefficient and unscientific solid waste management leading to unclean and unhealthy city
2	Waste-water is not properly managed (i.e. there is no proper collection, conveyance & treatment of waste-water), leading to unhygienic conditions & pollution of water bodies
3	Insufficient and inefficient Storm water management leading to unhealthy towns
4.	Prevalence of insanitary toilets and improper maintenance of Public and Community Toilets, leading to detrimental environmental and health hazards
5.	Poor cost recovery and collection efficiency in water supply related services leading to poor services to the citizens / users
6.	Lack of skills / capacities (technical and managerial) with the Municipal staff in all departments makes it challenging for the Municipality to perform day to day functions and keep pace with the increasing demand in services and developments in sanitation sector.

	Name	Designation
1.	Smt. SK. Noorjahan	Hon'ble Mayor & Chairman
2.	Sri Y. Sayie Shreekanth	Commissioner & Convener
3.	Sri Ch. Venkata Ratnam	Hon'ble Deputy Mayor & Member
4.	Sri Shaik Muzbul Rehaman	Cooption Member & Member
5.	Sri K.Venu Gopala Rao	Corporator & Member
6.	Smt P.Deepthi	Corporator & Member
7.	Sri P.Pardha Saradhi	Corporator & Member
8.	Sri P.Rama Dasu	Corporator & Member
9.	Dr. V. Surya Rao	Municipal Health Officer & Member
10.	Sri G. Pradeep Kumar	Executive Engineer & Member
11.	Sri V.V. Satyanarayana	Environmental Engineer & Member
12.	Sri V. Srinivas	Assistant City Planner – I & Member
13.	Sri G.V.S. Murthy	Assistant City Planner – II & Member
14.	Sri Sirajuddin	Revenue Officer
15.	Sri Bhaskara Rao	Project Officer
16.	Sri M. Nagarjuna	Environmental Engineer, A.P. PB & Member
17.	Sri M. Ramachandra Rao	Residential Welfare Association & Member
18.	Sri S.T. Tirupathi Rao	Sanitary Supervisor & Member
19.	Sri K. Bala Krishna	Sanitary Inspector & Member
20.	Sri P.V.Satyanarayana	Sanitary Inspector & Member
21.	Sri K.A.Kondala Rao	Sanitary Inspector & Member
22.	Smt. P. Vijaya Bharathi	Town Level Fedaration & Member
23.	Sri Subba Rao	President, Hotels Association & Member
24.	Dr. D. Krishna Rao	Head of the Dept., Science & Humanities , C.R.R. Collage, Eluru & Member
25.	Sri Jagadish	Manager, Eluru Chandana Brothers & Member

CSP Eluru

First short-term actions planning under CSP Action Plan

- Ensure proper Waste-water Management up to 40%
- Formation of committee/task force for ensuring proper O&M of public and community toilets
- Organize rigorous IEC activities for all stakeholders
- Frame bye-laws for controlling littering in drains
- Explore avenues for capacity building with state under various programmes SBM, AMRUT
- Take up upgradation of skills for timely implementation of GO 279 and frame bye-laws for implementation of SWM rules 2016, banning plastic carry bags and banning burning of Solid waste



	KEY ISSUE
1	Lack of proper segregation and treatment of Solid Waste
2	Suitable dump yard – Technical land fill not available
3	Implementation of G.O No.279
4	Implementation of 100% ODF by end of 2016
5	Lack of treatment for both black and grey water. Both types of wastewater are mixing in the same drain
6	Lack of Enforcement of laws
7	Lack of Human Resource management
8	Lack of Cost recovery

CSP Kadiri

First short-term actions planning under CSP Action Plan

- **Construction of 4 community toilets**
- **Constructing of 2 Nos of 500 KL Capacity ELSRs**
- **Training of Officers, Section Heads and Other Staff**

Sl. No	Name	Designation
1	Smt. Shaik Suriya Banu	Chairperson (Head of the CSTF)
2	Sri. B. Nageswar Rao	Commissioner (Convener)
3	Sri. D. Sankar	Ward Member of W. No. 28
4	Sri. K.S. Shabbir	Ward Member of W. No. 29
5	Sri. K. Kalyan Kumar	Ward Member of W.No. 07
6	Smt. S. Shahanaz	TLF President
7	Sri. T. Ranjith Kumar	Sanitary Inspector (i/c)
8	Sri. M. Venugopal	Sanitary Inspector (i/c)
9	Sri. P. Venkatarmana	Municipal Engineer
10	Sri. B. Narasimhulu	Municipal Assistant Engineer
11	Dr. Sri. Mahaboob Basha	Superintendent of Government Hospital
12	Sri. Wilson	NGO Mytri
13	Sri. M. Rafiq	Public Health Maistry, Kadiri Municipality
14	Sri. Nagaraju	Control Worker President

KEY ISSUE	GOAL
No coverage to sewerage system in peripheral areas and limited sewer connectivity in covered areas	Achieve 100% sewer connections in a combined mode of centralized and decentralized system
Prevalence of open defecation in certain low-income pockets	Declared as OD free city on 02-10-2016
Cost recovery levels in water supply and solid waste are very low against O&M cost	Improve collection efficiency of solid waste and water charges
Littering and waste dumping in storm water drains	Make open drains and storm water drains litter free
Regulation and oversight of onsite sanitation and septage management is inadequate	Implement a septage management priority project with clear roles and responsibilities
Mechanism for fines	providing squads for fines collection

CSP Kakinada



First short-term actions planning under CSP Action Plan

- Planning and implementation of septage management plant
- Training of ULB Officials and Self Help Groups
- Construction of 5 new Public Toilets

	Name	Designation
1	Sri H.Arun Kumarr District Collector	Chairperson (Head of the CSTF)
2	Sri AleemBasha	Commissioner (Convener)
3	Dr. A.Mohana Krishna	Health Officer Kakinada (In charge)
4	Sri S.Kalesha	Assistant City Planer Kakinada
5	Smt. K.Lakshmi	TLF president
6	Sri P.KasiVisweswara Rao	Shops & Establishment, Vice President chamber of commerce
7	Sri B. Navarohini	Superintending Engineer Mpl corporation Kakinada
8	Sri D.V.V.Subrahmanyam	Sanitary Supervisor
9	Sri Sk. Jilani	Sanitary Inspector
10	Sri G.Satteppa Naidu	Sanitary Inspector
11	SmtP.Rita	D.E.E.
12	Sri Sarat Chandra Mouli	Social Worker
13	Sri V.V.Ramana Murthy	Municipal Standing Counsel
14	Sri M.Sri Vijay	Nehru Educational Trust
15	Sri K.Venkateswara Rao	Contractor
16	Sri B.Koteswara Rao	SafaiKarmachari Union
17	SmtS.Surekha	DarithriRaksitha Committee
1		President of Tax payers

City-Wide Key Issues

The town has no wastewater as well as fecal sludge management system in place which is the most detrimental issue in terms of environmental impact

No systematic or organized method to collect, convey and treat fecal sludge (Fecal sludge management) collected from the pits and septic tanks of the town.

Lack of solid waste processing facility (for biodegradable & non-biodegradable waste) leading to unhygienic & unhealthy conditions

The coverage of individual water supply connections to households is low

There are four major high footfall areas in Nandyal with no public sanitation facility in place

The cost recovery from the water supply sector is low

The confinement of excreta in majority of containment units is inadequate. This could pose as a major environmental concern

CSTF Members:

1. Smt. Desam Sulochana, Chairperson (**Head of the CSTF**)
2. Bhaskar Naidu (**Commissioner**),
2. Sri Satyanarayana, Municipal Engineer and Ex-Commissioner
3. Smt. S. Noorjahan, **Ward member of W. No. 8**
4. Sri M. Murali, **Ward member of W. No. 22**
5. Smt. S. Noorjahan, **TLF president**
6. Sri E. Narasimha Rao, **Sanitary Inspector**
7. Sri M. Govind Reddy, **Sanitary Inspector**
8. Sri A. Satyanarayana Rao, **Municipal Engineer**
9. Sri P. Iftequar Ahmed, **Dy. E.E (Env.) Municipality**
10. Dr. Gelivi Sahadevudu, **Medical practitioner**
11. Sri V. Gopal Krishna Murthy, **NGO- DART**
12. Sri J. Chennaiah, **PHW Nandyal Municipality**
13. Sri S. Lakshmaiah, **Contract worker president**
14. Sri Shaik Khaja Mohiuddin, **Social Action Committee Member**

CSP Nandyal

Streamline the operations for collection and conveyance process of fecal sludge and its emptying in a regulated manner by 2017



CSP Short term Actions:

Increasing the access of households to individual water supply connections to 75% by 2017, 85% by 2018 and 100% by 2019.

Targeting a cost recovery improvement from 62.12% to 70% by 2018 and 90% by 2019.

Implement a holistic faecal sludge management program targeting FSTP by 2018

Interim Vermi composting facility (for 1 year atleast) establishment till the establishment of WTE plant

Retrofit/convert all unhygienic toilets to hygienic toilets (i.e. that facilitate confinement of excreta appropriately) by 2019.

A Performance Assessment framework to be introduced by 2018 to unify all service level benchmarks

Target the provision of public sanitation facilities in major footfall areas by end of 2017

City-Wide Key Issues

The town has no waste-water management system in place

No systematic or organized method to collect, convey and treat fecal sludge (Fecal sludge management) collected from the pits and septic tanks of the town.

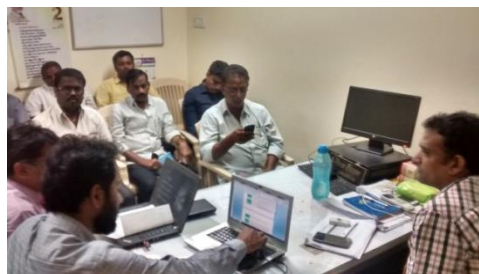
No treatment for wastewater emerging from slaughter house

The coverage of individual water supply connections to households is low

An important issue with the municipality is the limited quality of data (due to lack of monitoring and evaluation). Across all the basic needs services there is lack of consistency in the data availability for the service level benchmarks

CSTF Members:

1. Sri Nagasarapu Subbaraya Gupta, Chairperson (Head- CSTF)
2. Sri Annapragada Bhanu Pratap, Commissioner (Convener- CSTF)
3. G. Anil Kumar, Environmental Engineer;
4. Sri G.R.T. Omprakash, Municipal Engineer
5. Sri J. Siva Ramakrishna, Deputy Executive Engineer
6. Sri V. Eswar Reddy, Sanitary Supervisor
7. Sri N. Harinarayana, Contractor
8. Sri B. Sambasiva Rao, President- Hoteliers Associated
9. Sri Majeti Venkatesh, President- Chamber of Commerce and Industries
10. Smt Bh. Swarnalakshmi, CDPO- ICDS
11. Sri Rukmangadhar Rao, Rotary Club
12. Sri Gandham Surya Narayana, Lions Club
13. Sri Jayampu Srinivasa Rao, Yanadula ST Parishudya Panivarala Seva Sangam
14. Sri Gallepogu Yesudasu, Mouna Parishudya Panivarala Seva Sangam
15. Sri Shaik Kareem, Eswar Engineering College
16. Smt Popuri Vijayalakshmi, President- TLF
17. Sri Tirumamilla Ankamma, SLF
18. Sri N.Rama Rao, Telugu Seva Sangam



CSP Short term Actions:

Increasing the access of households to individual water supply connections to 80% by 2017 and 100% by 2018

An in house treatment facility will be established by end of 2017 to treat the wastewater discharge to the normative standards.

Implement a holistic wastewater management spread across 3 years targeting construction of a citywide STP of 15.55 MLD capacity by 2019

Streamline the operations for collection and conveyance process of fecal sludge and its emptying in a regulated manner by 2017

A Performance Assessment framework to be introduced by 2018 to unify all service level benchmarks

CSP Narasaraopet

	City Wide Key Issue
1	Current water supply is very less with current supply at 85 lpcd. HH water network coverage is less (approx. 26.5%). Metered connections are just at 0.3%
2	Lack of sewerage and wastewater management systems
3	Need in more public and community toilets at commercial and transit places and sanitation facilities in schools
4.	Inadequate storm water management system because of lack of pucca drains and choking of drains due to garbage disposal
5.	Segregation of waste at household level is not done. Collection efficiency of the door to door collection system is less than 40%
6.	Lack of awareness for sanitary practices and manpower for Operation and Maintenance of sanitation systems

CSTF Members

- Honorable Mayor (Executive Head)
- 5 Standing Committee Members
- Municipal Commissioner (Convener)
- Superintending Engineer
- 3 Executive Engineers – (1 from Water Works, UGD Works and SWM)
- Municipal Health Officer
- Sanitation Supervisor (I & II)
- Deputy City Planner
- Examiner of Accounts
- Non-Governmental Organization
- Community Organizer
- Town Level Federation
- Principal (DKW College)
- Project Director (ICDS)

CSP Nellore

First short-term actions planning under CSP Action Plan

- Detailed ward level survey to review condition of existing facilities and rehabilitate all facilities which do not comply to the design considerations (repairs and up-gradation of public toilets)
- Initiate primary segregation , storage and door to door collection system (for remaining 60% households)
- Preparation of DPR specially for storm water management
- Introduce user charges for solid waste management



As a federal enterprise, GIZ supports the German Government in achieving its objectives in the field of international cooperation for sustainable development.

Published by

Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH

Registered offices, Bonn and Eschborn, Germany

“GIZ Support to National Urban Sanitation program (SNUSP)”

“B5/2, Safdarjung Enclave, New Delhi 110029”

T +91 4949 5353

F +91 4949 5391

E dirk.walther@giz.de;

I www.giz.de

Responsible

Mr. Dirk Walther

Project Director

SNUSP – II, GIZ – New Delhi

In cooperation with



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