





Effective Plastic Waste Management in rural areas through Steel (Bartan) Banks & Ruthu Prema (MHM)

Siddipet District, Telangana.

## SBM (G) Siddipet: An overview

# SBM (G)- Siddipet where we stand.



Population: 10,12,065 (2011

Census

Total GPs : 499

Total Mandals : 23

Total Muncipalities: :05

Total ODF plus GPs: :499

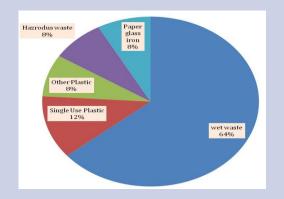
Total Steel Banks : 499

All GPs are declared as ODF Plus Model and District has 5 Star-Rating Category

# Sectoral analysis of the Waste Generation

In Gram panchayats of Siddipet district, Out of the 36% of the total dry waste generated, 20% constitutes plastic waste alone. And 12% is single use plastic (**SUP**). Disposable plates & utensils are a major portion of the same. Another tough category of waste is sanitary & menstrual waste (8%) that is non biodegradable and non recyclable.

**Steel bank** and **Ruthu Prema** are our attempt to find solution to both of these issues.



#### Think of alternatives!



### Steel (Barthan) Bank: The idea

#### Why Steel Bank?

Having been grapling with the challenge of managing plastic waste especially disposable utensils, siddipet district chose to tackle it through a creative and sustaible solution "Steel Bank".



# When and how the idea came?

This Particular initiative started during *Kanti-Velugu* (state wide universal eye testing Program) in 2022. In this program, medical camps were conducted across all villages where food had to be arranged for 15-20 staff on daily basis.

Natural choice for GP was to use plastic disposable plates, that were causing filth and problem of disposal, as a solution came the idea of steel bank!



#### What is Steel Bank

The steel bank concept involves the provision of a variety of steel utensils such as plates, spoons, glasses, bowls, basins, and more, that are kept as a bank at Gram Panchayat Office.

Here GPs use these items as part of regular meetings and rent them out to villagers for community programmes at nominal rates.



## **Steel Bank: Scope and economics**

#### **List of Items**

SI. NO	Items	SL NO	Items	
1	MEAL PLATES	13	KABGIR	
2	TIFFIN PLATES	14	DEKSHA 60 WITH LID	
3	WATER GLASS	15	DEKSHA 50 WITH LID	
4	TEA GLASS	16	BAGONA 20 KGS WITH LID	
5	BESANS	17	BAGONA 10 KGS WITH LID	
6	BUCKETS	18	SINGLE STOVE BIG	
7	LADDLE (CURRY SPOONS)	19	DOUBLE STOVE LARGE	
8	DONGA	20	SMALL TENT (COOKING)	
9	RICE SERVING SPOONS	21	TABLES	
10	WATER JUGS	22	DRUMS	
11	CUTLARY TRAY	23	CARPETS	
12	STEEL TUB	24	RACKS	

#### **Scope of Steel Bank**

- √ Family events
- ✓ Cultural events
- ✓ Melas and National Days.
- ✓ All Community level events
- ✓ All Govt. Officials trainings, medical camps and meetings
- ✓ Election campaigns & trainings













GP Irkode, MPP Siddipet R

#### **Cost economics**

SI. No	Detail s	Population of GP	Unit Cost (appx)		
1	Steel Bank	Below 3000	1.50 Lakhs		
		3000 to 6000	3.00Lakhs		
		Above 6000	5.00Lakhs		



GP Malyala, MPP Narayanraopet

# Steel Banks: Operations and sustainability

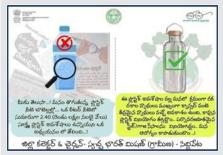
#### Management

- Initially the steel banks were established by Gram panchayats with 50-100 units of utensils and seed cost of Rs 15000/-. 499 such Steel banks established at each GP.
- Further they are being operated and maintained by SHGs of the same village who rent out the items at nominal rates for small community functions. The regular washing, cleaning and hygiene too remains responsibility of the group.
- Further 9 Mandal Samakhyas (Mandal Federation of SHGs) have opened big steel banks with over 500 units.
- They have Rs. 5.00 Lakhs worth steel utensils where 50% is invested by women themselves and 50% grants is received from CSR funds.



#### **Enforcement and behavioral change**

- IEC & IPC interventions: The district has launched extensive awareness campaigns under IEC to educate the public about the environmental impact of plastic waste in general and disposable utensils in specific.
- Regulatory Measures: The district administration has implemented and enforced regulations to control the production, distribution, and use of single-use plastics as per GO No. 40.
- Community Participation: actively involved local communities in waste management initiatives.





# **Steel Bank: Impact**

#### Health

According to studies, there are numerous health side effects of eating in plastic- especially cheap quality disposable plastic utensils.

This initiative not only reduced the filth of such plastic waste but also made the community more aware about its side effects like indirectly consuming microplastics having cancerous and indigestion effects.



#### **Economic**

Through this initiative, community /SHGs/gram panchayat get an additional income source. That income is utilized for further operations, maintenance and expansion.

SHG model of operation and renting mechanism ensures some economic incentives and that in turn makes it a self-sustainable model.

The long term cost economics also supports the steel utensils model as compared to the cost of purchasing disposable utensils every time.

#### **Environmental**

Plastic waste (expected 6-8 KGs per event) reduced, its collection, dumping and burning also reduced. (28 quintals per month)

Another alternative- paper plates usage also reduced significantly. Paper though a better option but has a high environmental cost!

S No	Description	No of GPs	Meeti ng per Month / Quart er/ Days	Tea	No of Wate r Glas ses	No of Dispo sal Plates	items	Reduced SUP Items in one Year worth in lakhs	Quanity in Qtls
1	GP Meetings @ Per Month	499	1	30	30	20	10040	1.21	2
2	Special meetings, important days observations	499	4	100	100	50	199750	2.00	4
3	Kanti Velugu (Eye -test Program)@300 members avg checkup including staff	499	1	600	600	400	899200	9.00	8
4	Praja Palana (Local Governance at GP level)	499	6	500	500	50	1497550	15.00	14
	Total							27.21	28

## **Steel Bank: Success Story**



Village Organization (VO) – Jhansi GP – Ponnala, Siddipet Urban block

The Self Help Group women in the village, started Steel Bank worth Rs. 3.00 lakh. Out of that 50% fund was raised from the SHG and another 50% was from CSR.

So far 60 orders received from the same village and Rs. 50,000 earned in last 1.5 year.





### Ruthu Prema- "Love your periods"

### An Initiative For Sustainable Menstrual Hygiene Practice

#### Why Ruthu Prema

- To overcome the Cultural and religious taboos regarding menstruation.
- To reduce the menstrual waste in rural and urban areas by adoption of eco friendly MHM practices.
- To address the health and psychological issues related unhealthy menstrual methods empower the women and Girls.



#### What is Ruthu Prema

- An initiative to promote sustainable menstrual hygiene practice like use of menstrual cups in place of sanitary pads that are cost-effective and environmentally friendly.
- Implemented in two phases-
- 1. Reaching out to field functionaries like ASHA, AWTs, doctors and panchayat Sachivs as "agents of change".
- 2. Reaching out to community through training camps by specialist doctors.



#### **Implementation**

- sensitization programs on MHM for adolescent girls in High Schools, Residential Hostels and colleges.
- Ruthu Prema Health Society Registered society formed under societies registration Act,2001. No. 208 of 2023.
- The Sarpanch of Gurralagondhi village purchased menstrual cups for all eligible women in his village & this village was chosen to be declared as the first village to achieve zero menstrual waste.
- inspired from him, all villages of Siddipet (115 villages so far) and 43 wards of municipality began conducting special camps on Ruthu Prema where awareness and trainings were coupled with free distribution of menstrual cups.
- A dedicated website and app being developed.



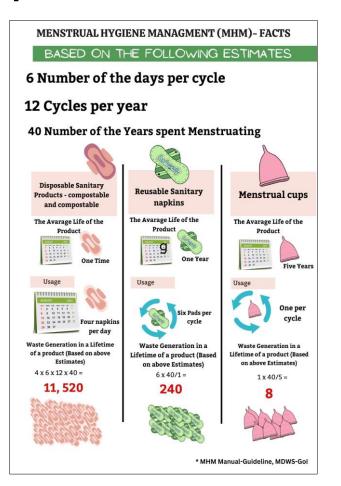
### Ruthu Prema- "Love your periods"

### **Impact**

- Over 8513 women workers received menstrual cups in phase-1.
- Over 150 camps covering 1,33,417 women out of whom 53,067 were distributed menstrual cups in phase-2.
- More than 75% usage reported so far.
- 12,358 adolescent girls received Cloth pads.
- Usage of around 4 lakh pads reduced per month. As a result lesser cases of burning of used pads and smell of land fillings.
- Around 20 lakhs rupees worth of savings by the women.









### Ruthu Prema and Steel Bank: in press

#### **UNICEF** delegation visits Siddipet, Sangareddy on Tuesdav

The delegation visited the Swachh Badi near Siddipet, where Additional Collector Garima Agarwal explained how the municipality was making efforts to educate the people on sanitation

BY TELANGANA TODAY UPDATED ON - 12 SEPTEMBER 2023, 10:10 PM









Siddipet: A UNICEF delegation on Tuesday visited Siddipet and Sangareddy.

Beginning its tour from Siddipet, the delegation visited the Swachh Badi near Siddipet, where Additional Collector Garima Agarwal explained how the municipality was making efforts to educate the people on sanitation and also how the the civic body was also organising out an awareness programme called Ruthu Prema (Menstrual Hygiene). The municipality's efforts to reduce waste in dump yards by converting them into vermicompost and using them in biogas generation was also explained.





టికీ వెళ్లి మూడు రకాల చెత్తలను సేకరిస్తారు. බාාසනික ජසි බණු, වංක්ක ඖසිබණු, మూడోది మాత్రం.. హానికరమైన దెత్తే. పట్టణ పాలక సంస్థకు ఇదో సవాలు, శానిటరీ ప్యాడ్ లను బహిరంగంగా చితపాలు చేయడాని! మహిళలు ఇబ్బంది పడతారు. చెత్త బండికి ఇవ్వకుండా డెనేజీలో పడేసారు. అవస్స్ పేరుకుని మ్యాన్హ్హాల్స్ మూసుకుపోతున్నాం ఈ వ్యర్థాలు భూమిలో కలిసిపోవాలంటే నంగల ఏండు పడుతుంది. పోస్ కాల్పేద్దామా అంటే పరాంపరజానికి మరింత బమాదం. త సమస్య పరిష్కారానికి నిషుణుల సలహా తీసుకో వాలని భావంచారు మంత్రి హరీశరావు. బెంగళూరుకు రెందిన పర్యావరణ వేత్త డాక్టర్ శాంతి నేత్పత్వంలోని బృందంతో లోతైన అధ్య వైన డైపర్సు, న్యాప్కికీస్లు తయారు చేయడమే ಂದುಕು ಸರಿಸ ಪರಿಷ್ಕಾರಮನಿ ಪರ್ಕಾಪರಣ ಂಡ್ಲಿಯಕುರುವ, ಪೆಂಡ್<del>ಟ್</del>ರಾರಕು ನಿಂದನ ಕ್ರಿ కంపెనీ కార్పొరేట్ సామాజిక బాధ్యతలో

బ్రత్ సమస్యకూ ఓ పలిప్పారం ఉంటుంది. కొనిసారు ఆ సమస్యలోనే తరుగులేని పలప్పారం దొరుకుతుంది. సిద్దిపేటలో జరుగుతున్నది అదే. ైనేజీ వ్యవస్థకు తీవ్ర విఘాతం కలిగిస్తున్న వ్యర్థాలకు అడుకట్ట వేయదానికి.. 'రుతు డ్రేమ' పేరుతో విమాత్సమిన కార్యక్రమాన్సి చేపట్కారు. మహిళల ఆరోగ్యం పాదుపు, పర్యావరణ పలరక్షణతో ముదిపదిన ఆలోచన ఇది.

బాగంగా 'రుతుచేమ' అమలుకు ముందు కొచ్చింది. స్టోన్ సూప్ అనే స్వచ్చంద సంస్థ -సిబ్లిపేట మున్నిపాలిటీ తమవంతు సహకారం అందిస్తున్నాయి. దీంతో ఓ ఉద్యమంలా.. అందిన్నున్నాయి. దంఆ బ వ్యా వస్తుంతో తయారు లేసిన ప్యాడ్లు, పిల్లల డైపర్లు మెడికల్ గ్రేడ్ సిలికాన్ క్యాప్స్ సిద్ధిపేట మహిళ లకు పరిదయం రేస్తున్నారు. ఈ క్యాప్స్లను 8 నుంచి 10 ఏండ వరకూ వాదొద్దు. ఇవి సుర

కొనాల్సిన అవసరమూ ఉండరు. అలా భ్ర మహిళకూ ఏటా రూ.1200 వరకు అదా అవుతుంది. వీటి వాదకంపై ఆరోగ్య కార్యకర్గల అవగాహన కల్పిస్తున్నారు. 'మారుతున్న మైన అలవాట్లనూ మార్చుకోవాలి. జ్లాత్ ప్యాడ్స్ లోగ్యానికి ఎంతో మంచిది' అంటారు సిది పోలీస్ కమిషనర్ శ్వేత. 'మహిళల ఆరోగ్యం, డబ్బు, పర్యావరణ పరిరక్షణ, సౌకర్యం... ఈ నాలుగు అంకాలను దృష్టిలో ఉందుకొని రుతు మైమ కార్యక్రమానికి శ్రీకారం చుట్పాం. ప్రాస్టిక్, కెమికల్స్ కరిగిన ప్యాడ్స్ వల్ల మహిళల ఆరోగా ನಿಕೆ ಕಾರು, ಬರ್ಲಾವರಣಾನಿಕೆ ಕೂಡ್ ಬರ್ಮದನ పీటన్నిటిసీ దృష్టిలో పెట్టకొని మెడికల్ కోడ్ సిల కాన్**తో** తయారు చేసిన కానిటరీ కప్లును పరి చయం చేస్తున్నాం' అంటూ కార్యక్రమ లక్ష్మాన్న వివరించారు డాక్టర్ శాంతి. ప్రజా ప్రతినిధు ఆధికారులు సైతం 'రుతుడ్దుమ'పై చైతన్య

... 左 కత్తుల శ్రీనివాస్రెడ్డి

#### Siddipet GPs procure steel utensils, promote SUP ban



All Gram Panchayats (GPs) in Siddipet district of Telangana have procured steel utensils with a view to supporting the ban imposed on single-use plastics (SUPs). The move will encourage communities to use steel items and refrain from using plastics and other disposable products that have a drastic impact on health and the environment.

In a bid to reduce plastic pollution, the Government of India with effect from 1st July 2022 has banned 19 single-use plastic items that have low utility and high littering potential. These include polystyrene (thermocol) plates, cups, glasses, forks, spoons, knives, straws, trays, packaging films around sweet boxes, invitation cards, and plastic, or PVC banners of less than 100 microns among others.

In accordance, Sri Prashant Jeevan Patil, District Collector, Siddipet, issued a notification and constituted several task force teams for the effective implementation of the SUP ban.

Further, Sri Muzamil Khan, Additional Collector - Local Bodies, and Taskforce members.

Sri Ch. Gopal Rao, District Rural Development (DRDO), Smt. Devaki Devi, District Panchayat Officer (DPO) along with the teams had taken up.

# SBM(G) Siddipet: Challenges and the way forward

- Despite the successes, challenges persist including issues related to caste and religious perceptions—behavioral aspects, capital expenditure and management issues.
- To address some of these, we realized that the change has to come from the society itself. Hence involvement of SHGs is a critical step forward.
- Telangana Municipality department has replicated the idea of barthan bank across all municipalities of the state.
- The SBM-G Telangana too is planning to replicate the same across all districts.



