

National Workshop on Best Practices and Model projects for the DPDP and BPDP

New Delhi
5th. January 2023

Sujoy Mojumdar
Snr WASH Specialist
UNICEF

Comprehensive list of potential project proposals on WASH for District and Block levels

Implementation level	Sanitation	Water
BP/DP	<ul style="list-style-type: none"> • Construction of Community Sanitary Complexes (CSCs) • O&M of public and institutional toilets (schools; anganwadis/HCFs) • Drainage arrangements for transportation of wastewater from a group of villages to a common treatment unit • Community level SLWM treatment units for group of small villages • Operation and maintenance of multi village wastewater/ solid waste management arrangements • Purchase of litter bins to be fixed at public places • Implementation of community and cluster GOBARdhan Unit • Services of mechanical Cleaning, collection of Faecal Sludge from households/ Community/ Institutional toilet & Transportation to FSM plant • Operation & maintenance of Faecal Sludge Management Plant • Purchase of Sanitary Pad Incinerator for Menstrual waste management to be used at public places/schools) (Approved by CPCB and SPCB) 	<ul style="list-style-type: none"> • Augmentation of existing water source(s) of drinking water for sustainability including creation of new sources • Providing piped water supply for drinking, handwashing and use in toilets in public institutions – schools, anganwadis, health centres, market places • Disaster preparedness for any emergency/ crisis for rural water supply • Rapid response in the event of natural disasters/ other exigencies for rural water supply • Bulk water transfer for a group of villages • Management and O&M of multi-village water supply schemes including payment of power charges • Rejuvenation and de-silting of tanks/ water bodies/ lakes to meet drinking water need of multiple GPs

Potential project proposals on Technical and administrative support on WASH programmes

Implementation level	Technical and administrative support activities
<ul style="list-style-type: none">▪ Implementable at BP/DP	<ul style="list-style-type: none">▪ Payment of professional fees for the services of contractual and outsourced agencies/personnel▪ Hiring of support agencies to support GPs in planning and handholding▪ Payment of honorarium to swachhagrahis▪ Payment of power charges for water supply schemes (MVS)▪ Training of PRI elected representatives and other officials▪ Availing services for preparation of documents - Preparation of accounts, auditing expenses▪ Cost of preparation of project reports and technical plans for the sanitation projects covering all processes like surveys, preparing maps, meetings, etc.▪ Cost of preparation of documents and holding consultations▪ Cost of essential consumables for bulk purchases▪ Data Entry costs; Data reporting; IT services▪ Monitoring and evaluation services▪ Development of IEC plans▪ Designing and organising communication campaigns, development of material for campaigns, etc.▪ Engaging Communication /IEC agencies▪ Conducting Capacity Needs Assessment (CNA) exercises▪ Development of CB plans▪ Documentation

Project No. 1

Integrated Solid Waste Management Facility
(Establishment Material recovery facility &
procurement of Machinery)-Supporting the
Circular Economy: A Multi -Village or Multi -Block Scheme

Brief Description

- i. The project aims to create a **socio technical model for solid waste management** linking the informal economy to the formal economy.
- ii. The project involves establish a **Material Recovery and recycling facility**, for sustainable system of waste management.
- iii. **Institutionalization of the waste management system** within existing governance framework, with employment generation, leading to improved socio-economic conditions of waste workers are crucial components of the project.

Expected Outcomes

- i. **Waste/Landfill free rural areas** - the solid waste generated in area of intervention will be treated in an environment friendly and scientific manner.
- ii. **Improvement in the health** of the community
- iii. **Improvement in the socio-economic situation** of the employed sanitation workers

Coverage

10 Gram panchayats (approx. 20,000 Hhs)

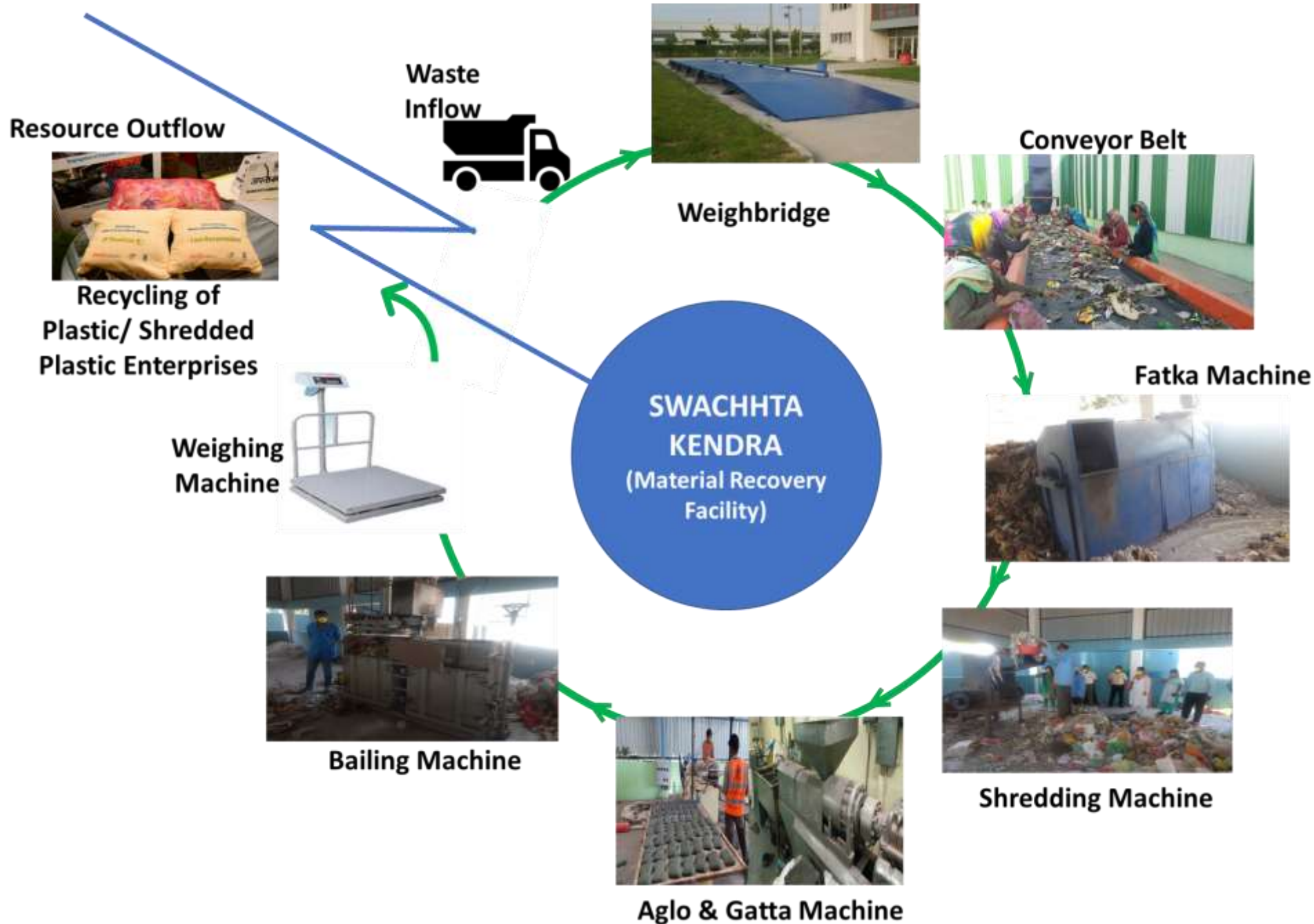
CAPEX 2-3 Cr

OPEX -30-40 lakhs/annum

Time period : 6 months

Swachhata Kendra (Material Recovery Facility)

- Equipped with machineries for better efficiency
- Provides basic amenities like safe drinking water, toilets and safe working environment
- Acts for institution building of the informal sector into formal arrangements.
- Facilitates waste flow & data recording and traceability



Activity – Setting up Integrated SWM capacity 7TPD (establishment and procurement of M/Cs)

➤ **Implementation Process**

- Baseline study of waste generation pattern and waste quantum in area of intervention
- Streamlining the waste collection mechanism in area of intervention
- Construction of MRF facility with electricity and basic WASH services
- Issuing CTE & CTO from respective SPCB
- Procurement of Machines such as bailing m/c, Conveyor belt, Forklift, Shredding, agglomerate, extruder
- Appointing the agency to implement the project
- Recyclers and market linkages
- Ensuring the data traceability for EPR credits and converting it into the business model

➤ **Convergence strategy**

- Funds for establishment of MRF(Construction, electricity connection) and human resource will be converged from BP/DP FFC funds, MNREGA
- Procurement of M/Cs or vehicles will be converged with FFC funds from DP,SUDA.
- Operationalization cost will be converged from FFC funds at BP/DP.
- Training to GP members on SBCC on source segregation provided by DWSM team ,CBOs, NGOs etc
- Cost required for market linkages and disposal of inert waste would be converged from EPR funds of brands

Total Cost (lakhs)	Approximate Cost Estimation of the SWM project		
<p>Components:</p> <p>Establishment Machinery Procurement Operational Cost</p> <p>CAPEX 2-3 Cr OPEX -30-40 lakhs/annum Population covered : 100,000 (Varies with the capacity of plant)</p>	<p>Construction of Shed and Insurance(One time)</p> <p>Construction-10 lakhs</p> <p>Electricity connection: 20 Lakhs(If transformer is required)</p>	<p>Machinery & Vehicle Procurement (One time)</p> <p>Vehicle: 30-35 lakhs</p> <p>Machinery required: 50-60 lakhs</p> <p>Insurance: 1-2 lakhs</p>	<p>Operational Cost (Recurring) :</p> <p>HR: 27lakhs/annum</p> <p>Transportation of Goods:10lakhs/annum</p> <p>Electricity:12lakhs/annum</p>

Project No. 2

Retrofitting of existing rural water supply scheme for bulk water supply to villages:
Multi village scheme

Activity – Retrofitting of rural water supply systems

- **Objective** - Provision of Drinking water supply to **2-4 villages (Covering 5000-6000 HHs)**
- **Implementation Process**
 - Preparation of Village Action Plan ;Ground level surveys with respect to technical and social aspects
 - Preparation of estimates and Detail; Project Report (DPR) based on the VAPs
 - Technical and Administration Approval by RWS Dept. and Kolhapur ZP
 - Tendering process to identify EPC firm for construction
 - Preparation of work order and allotment
 - Preparation of schedule for implementation of every activity and monitoring strategy (Block level Deputy Engineer/ Junior Engineer)
 - Organizing trial Run (one to six month depending on supply of water/type of scheme)
- **Convergence strategy**
 - Funds for Construction of intake well and human resource will be converged from MNREGS
 - Digging and construction of new well along with installation of new rising mains will be done by RWS Dept. from FFC funds of Block Panchayat through consultation with Groundwater Survey Development Agency (GSDA), Maharashtra
 - Provision of additional distribution network and FHTCs will be done under JJM by RWS Dept.
 - Training to GP members on O&M of the retrofitted scheme and source will be provided by DWSSM team and ISAs

Component wise Costing

Component	Costing in Rs. (approx.)
Intake well	5,00,000/-
Pipeline connection	5,00,000/-
Construction of new jack wells	10,00,000/-
Installation ESR,GSR	10,00,000/-
Provision of additional distribution network and FHTCs	30,00,000/-
Total	60,00,000/-
Average cost	INR 1000/- per HH

Project No. 3

Augmentation of rural water supply systems,
Source strengthening: Multi village water
supply scheme

Activity - Source strengthening works for multi village water supply scheme

- **Objective** - Construction of a public well and desilting of dam's catchment area to ensure uninterrupted drinking water suppl **2-4 villages (Covering 5000-6000 HHs)**

- **Implementation Process**
 - Desilting catchment area of dam of a nearby river
 - Digging for new public well away from the dam (Old public well closer to the river which used to get submerged during floods is replaced by new well which will act as the source)
 - Installation of a new rising mains
 - Provision of additional distribution network
 - Trial run and handing over of the scheme

- **Convergence strategy**
 - Funds for desilting the dam and human resource will be converged from MNREGS
 - Digging and construction of new well along with installation of new rising mains will be done by RWS Dept. from FFC funds of Block Panchayat through consultation with Groundwater Survey Development Agency (GSDA), Maharashtra
 - Provision of additional distribution network and FHTCs will be done under JJM by RWS Dept.
 - Training to GP members on O&M of the retrofitted scheme and source will be provided by DWSSM team and ISAs

Component wise Costing

Component	Costing in Rs. (approx.)
Desilting of catchment of dam	6,00,000/-
Digging for new well	4,00,000/-
Construction of new well	3,00,000/-
Installation of new rising mains	3,00,000/-
Provision of additional distribution network and FHTCs	18,00,000/-
Total	36,00,000/-
Average cost	INR 600/- per HH