

(XIII) Particulars of recipients of concessions, permits or authorisations granted by it

1) Society "ANUDAN" Scheme

Initially the cleaning activity carried out by Municipal Corporation was limited to main road and T.P.Road. Due to extension of city limit and development of new area, the residential facility fall short to cater the need and the situation became worse on account of construction of new societies and residential areas to provide accommodation to workers who are associated with diamond and textile industries. To keep the goal of day to day and 100% cleaning intact it was resolved by competent authority of Municipal Corporation to involve Societies on PPP base for internal cleaning of Societies. This PPP scheme is popularly known as Anudan scheme.

The only priority behind this Anudan scheme is the involvement of citizen in activities related to overall health & hygiene. Priority under this scheme is given to every society which is registered, unregistered or service society.

In absence of any perfect system for removal of solid waste from residential & non-residential societies the issue related to general health was at great risk. To eliminate this risk it was decided by Municipal Corporation to formulate the scheme under which society can be involved for maintaining the internal cleanliness. After series of meeting; It was decided unanimously to consider 25 % of overall lay out area of society as the area to be paid to the society under Anudan scheme. At present more than 800 numbers of societies are benefited under this scheme. It is resolved vide standing committee resolution No.910/2016, Dt.13/09/2016 to make payment to residential and non residential area at the rate of 80 paise and Industrial & Industrial cum residential area 65 paise per sq.mt respectively on account of maintaining cleanliness, minimum of Rs.1,600/- per month is paid to the society. Under Anudan scheme the society will have to arrange for sweepers and on production of satisfactory work completion certificate form president of society payment due to society is paid every month.

For any society to get grant under the scheme it is essential for society to arrange for manpower and other sanitation equipments on their own and required quantity of insecticides are provided by Municipal Corporation. On production of work completion certificate, society will get either Rs.1600/- per month or shall be paid as per norms depicted in resolution whichever is more.

Any society willing to join Anudan scheme shall have to approach Municipal Corporation with the layout plan and resolution passed in General Body meeting duly signed by the president. On receipt of resolution from society they shall have to enter in to

an agreement with Surat Municipal Corporation and shall have to give assurance to Municipal Corporation to follow all the conditions narrated in standing committee resolution. The activity being carried out by society is supervised by the public health Department of respective zone and before making payment to the society cross verification on the certificate produced by society president is done by respective zone.

1) **Integrated MSW treatment process:**

1. 600 TPD Waste Processing Treatment Plant.

The integrated MSW treatment process of Surat Municipal Corporation is to find the best possible technology and scientific solution for the perennial garbage disposal problem for the city through Public Private Partnership. The integrated treatment technology promoted by Saurashtra Enviro Projects Pvt Ltd. Surat was selected as most appropriate technology for treatment of MSW, The agency has installed the facility on BOOT basis for concession period of 02 years. The quantity agreed for agency is minimum 600MT per day subjected to maximum treatment of 5,00,000.00 MT for treatment. The plant Started during January 2016.

Salient Features Of Project

1. Investment by agency for construction, operation and maintenance.
2. Concession period agreed is 02 years.
3. All the permissions, NOC, Consent to follow up the prevailing Rules and regulations is with the agency.
4. S.M.C. giving recommendation letters as and when required without taking inancial responsibility.
5. Capacity of plant is 600 M.T. per Day against total generation of approx 2000 M.T. per Day.
6. Land provided is 25 hectors.

Technology Involving Processing of MSW into the following:

1. MSW (100%) Segregation
2. Wet organic material (30-35%) – Composting.
3. Dry organic material(35-40%) – RDF .
4. Recyclables (3-5%) – Plastic, MS and rubber items.

2. Waste to RDF to Energy 1200 TPD

City has been expanding very fast and to meet the future demand and to meet current Challengers, Surat Municipal Corporation has issued work order for 1200 TPD Waste to RDF to Energy as per Gujarat Waste to Energy Policy to M/s. Abbellon Clean Energy Pvt. Ltd. The plant will be developed at bamroli.

3. Centralized Waste Processing Plant (PPP/EPC Basis)

In order to meet future challenges SMC is planning to Implement the MSW processing plant with new Methodology and Consultation work for preparing tender documents is under Progress.

4. Treatment and final disposal of Bio Medical Waste:

Concession Agreement Signed by Surat Municipal Corporation with Agency named

En-Vision Enviro Engineers –Surat to establish, operate and maintain the centralized Biomedical waste treatment facility, Now it is name as En-cler Bio Medical Waste Pvt. Ltd.

Background

- Requirement of BMW (M&H) Rule
- Every Urban Health Centers & Hospitals in town with population less than 30 lakhs with numbers of beds between 50 & 500 must have treatment facility on or before 31st December 2002.
- Municipal authorities in large cities should check feasibility of setting up common hospital waste treatment facility.
- Compliance to BMW (M&H) Rule
- It is not economically feasible for small unit to establish treatment facility.
- Pilot survey conducted to get the estimated quantity of waste generation.
- Decision for common treatment facility on BOOT base with treatment charge as Rs.10/- per Kg. taken. Private Practitioners were asked to join the common treatment facility.
- Tenders on BOOT base were invited in Aug.2001.
- Open house discussion with beneficiaries was held to discuss contents of tenders.

Role played by SMC to safeguard the facility

- Allotment of land admeasuring 4200 sq.mt. at token rent of Re.1/- per sq.mt. per annum.
- Minimum 200 Kg. per day of bio-medical waste Kept as guaranteed quantity to be deposited by SMC.
- Decision to extend contract for period of 14 years beyond 31/12/2009 is taken.
- SMC shall not allow any other agency to establish treatment facility within Municipal area.
- Provision for entering in to an agreement with private health care units.
- Provision of room for collection of BMW at all the UHCs of Municipal Corporation.

Centralized Biomedical Waste Collection, Treatment & Disposal Facility

- BOOT Contract
- Introduced in Jan 2003
- Land 4046.82 sq. mt. provided by SMC at token rent
- Facility to be in strict adherence to BMW (M & H) Rules.
- Collection of waste – 2500 Kg./Day (1406 kg./day – Surat city)
- Capacity of plant 6500 kg / Day
- Population: 48 lacs
- Hospitals – 886
- Beds – 8063
- General dispensaries - 2340

- Pathological laboratories-293
- Collection Centres – 29
- Incineration – 1 Unit with dual chamber - 200 kg./hr.
- Autoclave - 1 Unit - 125 kg./hr
- Shredder - 4 Units - 400 kg./hr (100 kg./hr. each unit.)

5. Centralized Plastic Waste Management Plant:

Concession Agreement Signed by Surat Municipal Corporation with Agency named Eco Vision resources L.L.P for 15 years concession period. SMC has provided 2 acre land on token rent at Bhatar. Agency is producing at moment. Minimum one collection centre per zone has been established and operated by agency. Tie-up with rag pickers and NGO has been done by agency to lift street level plastic. Neither SMC is paying tipping fee to agency nor the agency is paying any royalty to SMC. Plant is commissioned & operational from June-2017 with capacity of 20 TPD.

Organic Waste Management

There are various stream of organic waste generation Hotel and Restaurant Kitchen Vegetable and Non-vegetable Municipal Markets & Slaughter Houses Municipal as well as private gardens Cattle farms Waste from all the streams will be collected separately and transported to proposed process plant

LOI for 7 nos of Mobile processing van has been given. 1 no of Mobitrash has started their operation in Surat City.

- 1 TPD organic waste processing plant has been started at Anjana transfer station.
- Tender for De-Centralized organic waste processing plant for 20TPD at 3 nos. of location is published and work will be commence shortly.
- Policy regarding installation of OWC units at society level has been formulated in accordance with MSW rules-2016. And unit rate for 50kg, 100kg, 150kg, 200kg and 250 kg is formulated vide Std. Comm. Res. No. 2050/2016, dt. 22/12/2016. Strict penalty action has to be initiated by health department.
- 20 Nos. of OWC units, is installed at different Vegetable and Non-vegetable Municipal Markets & Slaughter Houses
- More than 50 nos. Of Residential welfare society has installed OWC units as per the provision of SWM Rules-2016 in their premises

E- Waste Management

Project mode is on PPP mode with 15 years concession period and Overall 5 TPD Plant has to be Set up by SPV named Pruthvi E-wate Recyclers Pvt. Ltd.

SMC has provided 1 acre land on token rent at Unn. Agency has to establish primary level Treatment in Surat Agency will be authorized to setup collection centers for collection of e-Waste from various sources Model will be worked out based on producer's responsibility and their involvement.

C & D Waste Management

Project mode is on PPP mode with 20 years concession period and Overall 100 TPD Plant Set up by SPV named Surat Precast Green Pvt. Ltd. SMC provided 3 acre land on token rent at Kosad. Agency is producing various construction material such sand, block , Paver block etc. Agency is collecting collection charges directly from Users/ Generator Agency has deploy GPS based vehicles for efficient monitoring. SMC will make compulsory for utilization of 20% recycle products in all of the tenders as per the guideline of SBM. Plant is commissioned & operational from Feb-2019 with capacity of 200 TPD.

Industrial Waste Management

SMC has invited EOI from agency who has established facility for treatment of Waste. SMC to authorize agency for Collection of Non Hazardous waste from Surat City and to collect monthly charges from units as per rates approved by SMC. Agency will treat collected waste to their unit and produce energy in form of Steam, which shall be utilized for various industrial applications for the units in Sachin GIDC. Presently work is pending in approval stage.

Scientific Land Filling

Every local body has to design develop, Build and operate the scientific land fill site, as prescribed in MSW Rule – 2000 and SWM Rules - 2016 to disposed their Waste into it. Surat Municipal Corporation (SMC) initiated Waste to Energy project during year 2001 – 2002. To receive the inert which was supposed to be generated after processing of MSW, SMC started construction of scientific land fill site simultaneously. As such the project of Municipal Waste to Energy could not start during 2002 due to technical reasons, but the land fill construction was completed during year 2002. SMC was first at that time to develop scientific land fill site in the country with a capacity of 1.25 lac cu.mt. with cost of Rs. 131 lacs whose capacity exhausted in 2011, and the same SLF is been extended for capacity of 8,25,000 m³ at cost of 21 Cr under Swachh Bharat Mission . Meanwhile since 2011, 2nd SLF cell capacity of 6,25,000 cu.mt. is constructed under JnNURM scheme. This SLF cell also in under utilization.

6. Dumpsite Remediation.

SMC has started the work for scientific closure of accumulated waste at cost of Approximately Rs. 52 Cr under swachh bharat mission, which was dumped open by SMC during the period of year 2001-2014.