

It is expected that all projects may become functional by June 2019.

6.4. Institutional Mechanism for implementation of Proposed Integrated Solid Waste Management Projects

For each of the proposed cluster, an inter ULB agreement is being signed among the participating ULBs, wherein the ULB contributing the maximum amount of waste and having the sanitary landfill site shall act as the lead ULB and take all steps for implementation of integrated solid waste management projects. The Lead ULB shall perform the following roles and responsibilities for successful execution of the project.

- Providing unencumbered land for landfill site
- Facilitating the concessionaire with all the necessary clearances and approvals required for the implementation of the project
- Appoint Independent Engineer Unit and arrange for payment of professional fee as per the monthly invoices
- Interfacing between GoMP and participating ULBs;
- Managing special account created for SWM for all project related transactions with GoMP and participating ULBs
- Managing escrow account with the concessionaire
- Performance monitoring of concessionaire and the Management Unit
- Convening regular meetings of Monitoring Committee

A. Project Management Structure

The Management structure comprises the following:

- a) **Monitoring Committee (MC)** – comprising the Chief Executive Officers of Parties to supervise contract management and monitor the performance of Concessionaire and MU.
- b) **Independent Engineer (IE)** – a private consultancy organization identified through transparent competitive bidding process by

NPNK, for supervision of implementation, operation and maintenance of the Project on a daily basis.

B. RESPONSIBILITY OF MC

a) DURING PROJECT PREPARATION PHASE

- i. To ensure that ULBs shares the signed Concession Agreement with the Parties;
- ii. To ensure that Lead ULB shares the signed Contract Documents of MU and IE procured through transparent process;

b) PROJECT IMPLEMENTATION PHASE

During the Project Implementation Phase, MC shall;

- i. meet at least once in a month or more to review the project implementation process;
- ii. issue necessary instruction to Parties to this Agreement for compliance with the proviso of Concession agreement from time to time;
- iii. issue necessary instructions/notices to Concessionaire in consultation with MU & IE to ensure compliance with the provisions of this Agreement and Concession Agreement;
- iv. Review the appraisal report prepared by IE/ MU of the Project Implementation and Operation Plan (PIOP) prepared by the Concessionaire and decide the actions to be initiated based on the recommendations of MU in line with the provisos of Concession Agreement for its acceptability and financial implications.
- v. Amicably resolve any dispute between IE & MU related to project construction and O&M;

c) PROJECT OPERATION & MAINTENANCE (O&M) PHASE

- i. During Project Operation and Maintenance Phase, MC shall meet once in a Month and shall decide on following matters;
 - (a) Providing concurrence on actual MSW transported by Concessionaire from the various ULBs Governed by Parties and deviation thereon;
 - (b) Final Payment to be made by Parties and to be deposited in Escrow Account for onward payment to Concessionaire;
 - (c) Taking appropriate action in case of default by either of Party;
 - (d) Penalty or Incentive to be provided to Concessionaire as the case may be;
- ii. MC can revise the Service Delivery Target provided, it has been requested by the Party, however those Service Delivery Target cannot be changed if MC opines that those suggested changes will affect the Project performance; and to ascertain the acceptability of suggested changes MU may hire Expert services at its own cost;

C. RESPONSIBILITY OF INDEPENDENT ENGINEER AGENCY

IE responsibility shall be following:

a) DURING PROJECT IMPLEMENTATION PHASE

MU shall undertake detailed appraisal of PIOP submitted by Concessionaire and as the case may be, shall advice MC to issue instruction for corrective action to be taken by Concessionaire. MU may follow up for compliance of such instruction and action taken by Concessionaire.

b) PROJECT OPERATION & MAINTENANCE (O&M) PHASE

- i. MU will undertake routine monitoring of project performance against the Service Level Benchmark (SLB) set in Concession Agreement and achievement or non-achievement of those SLB shall be reported to MC; thus in turn penalty/incentive shall be imposed by MC in consultation with IE as per the Penalty or Incentive Structure set out in Concession Agreement.
- ii. IE/MU will review the financial plan, which would include

delivery, sources of proposed investments funding, estimates of revenue and expenditure for the O&M activities including the options for revenue improvement and expenditure minimization;

- iii. MU shall advice MC to set out the payment the mechanism thereon to Concessionaire for capital investments, O&M expanses and Tipping Fee payable;

7 Investment Requirement and phasing

The total capital investment required for implementing Integrated Solid Waste Management in all 378 ULBs shall be around 3045 crores. It is based on the maximum per capita cost Rs 1500/- as suggested in the guideline of “Swachchha Bharat Mission”, circulated by Govt. of India. This investment shall be phased in 3 years.

Further, the investment required will be covered by a mix of central Govt VGF, State government grants, State govt. concessional loan to ULBs and share of private operator. Under the “Swachchha Bharat Mission” scheme, a VGF of 20% shall be provided to the solid waste management projects. The States Govt. shall provide 20% grant and 30% concessional loan if required for making project financially viable at a lesser rate to ULB. The share of private operator shall be 30% or more if the cost exceeds the estimated cost.

The grant in being provided for reducing the concessionaire’s investment so that tipping fee is reasonable. This will help in providing affordable use charges.

The State Govt. Intends to select the concessionaire for all projects by June-2017. The target is to start all Waste to Energy (WtE) projects by June-2019 and Waste to Compost (WtC) projects by March-2019

7.1 Revised Investment Requirement

The approximate Investment required for phase wise implementation of the project is detailed below:

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	2015-16	2016-17	2017-18
Cluster Phasing	02 Clusters	10 Clusters	14 Clusters
Name of Cluster	Sagar, Katni	Bhopal, Rewa, Gwalior, Indore, Hoshangabad, Khandwa, Dewas, Chhatarpur, Damoh, Bhind	Vidisha, Shajapur, Chhindwara, Betul, Shivpuri, Guna, Shahdol, Singrauli, Balaghat, Narsinghpur, Pithampur, Mandsaur, Ratlam
Grant from Central govt. (20%) & State Govt. (20%)	73.22	713.80	458.40
Concessionaire Share	31.78	1031.20	687.60
Total estimated Investment	105.00	1745.00	1146.00

(*Amount in Crores)

8 Steps Forward – Future Action Plan & Timelines

The State Govt. Intends to select the concessionaire for all projects by June-2017. The target is to start all Waste to Energy (WtE) projects by June-2019 and Waste to Compost (WtC) projects by March-2019.

S.No	Name of Cluster	No. of ULBs	Est. waste Generation	Type of Processing	Status	Remarks	Timeline
1	Sagar	11	185	Compost	Under EC	M/s Ramky Enviro Engineers Ltd	Environmental Clearance of project
2	Katni	5	92	Compost	Construction Started	M/s Ramky Enviro Engineers Ltd	Plant operational by June-2017
3	Jabalpur	1	450	Energy	Commissioned	M/s Essel InfraProjects Ltd	
4	Bhopal	8	1065	Energy	Concession agreement Signed	M/s Essel InfraProjects Ltd	DPR Preparation by Concessionaire is underway
5	Rewa	28	340	Energy	Concession agreement Signed	M/s Chennai MSW Private Ltd	
6	Indore	8	1004	Energy	Under Bidding	Concessionaire agreement signing is targeted	Concession agreement to be signed by Mid March 2017
7	Gwalior	16	543	Energy	Under Bidding	Concessionaire agreement signing is targeted	Concession agreement to be signed by Mid March 2017
8	Hoshangabad	14	164	Compost	Under Bidding	Concessionaire agreement signing is targeted	Concession agreement to be signed by 30 th April 2017
9	Burhanpur	10	176	Compost	Under Bidding	Concessionaire agreement signing is targeted	Concession agreement to be signed by 30 th April 2017
10	Dewas	24	151	Compost	Under Bidding	Concessionaire agreement signing is targeted	Concession agreement to be signed by 30 th April 2017
11	Bhind	14	261	Compost	Bid documents under preparation	FSR Consultant - M/s Royal HaskoningDHV	Bids expected to be published by 28 th February 2017

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12	Damoh	12	107	Compost	Bid documents under preparation	FSR Consultant - M/s MARs Engg & Planning	Bids expected to be publish by 28 th February 2017
13	Chhatarpur	28	188	Compost	Bid documents under preparation	FSR Consultant - M/s MARs Engg & Planning	Bids expected to be publish by 28 th February 2017
14	Vidisha	15	160	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s Deloitte	Bids expected to be publish by 31 st March 2017
15	Shajapur	26	162	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s Deloitte	Bids expected to be publish by 31 st March 2017
16	Chhindwara	20	173	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s Royal HaskoningDHV	Bids expected to be publish by 31 st March 2017
17	Betul	8	89	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s Royal HaskoningDHV	Bids expected to be publish by 31 st March 2017
18	Shivpuri	10	122	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s Tata Consulting Eng.	Bids expected to be publish by 31 st March 2017
19	Guna	11	152	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s Tata Consulting Eng.	Bids expected to be publish by 31 st March 2017
20	Shahdol	16	116	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s Tata Consulting Eng.	Bids expected to be publish by 30 th April 2017
21	Singrauli	1	71	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s Tata Consulting Eng.	Bids expected to be publish by 30 th April 2017
22	Balaghat	13	97	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s Ecopro-Meghraj	Bids expected to be publish by 30 th April 2017
23	Narsinghpur	15	556	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s Ecopro-Meghraj	Bids expected to be publish by 30 th April 2017
24	Pithampur	24	241	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s Ecopro-Meghraj	Bids expected to be publish by 30 th April 2017
25	Mandsaur	22	160	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s MARs Engg & Planning	Bids expected to be publish by 30 th April 2017
26	Ratlam	17	171	Compost	FSR Prepared. Bid Documents to be prepared	FSR Consultant - M/s MARs Engg & Planning	Bids expected to be publish by 30 th April 2017

Annexure A

The proposed formation of Clusters, Population (Projected from Census 2011 data) and MSW generation is given herewith.

Name of Cluster	Town	Population (2015)	MSW Generation in TPD (2015)
1 Hoshangabad Cluster	Babai	18078	5
	Budni	18151	5
	Harda	80201	24
	Hoshangabad	127414	38
	Itarsi	107265	32
	Khirkiya	24553	6
	Nasrullaganj	25688	6
	Pipariya	52727	16
	Rehti	12539	3
	Seoni-Malwa	32505	8
	Shahganj	9190	2
	Sohagpur	27040	7
	Timarni	24145	6
	Total	559496	158

2 Vidisha Cluster	Badi	21169	5
	Baraily	37432	9
	Basoda	84543	25
	Begamganj	36750	9
	Gairatganj	19637	5
	Kurwai	16724	4
	Lateri	20349	5
	Raisen	47690	12
	Sanchi	9072	2
	Shamshabad	12234	3
	Silwani	20111	5
	Sironj	56651	17
	G...	11000	3

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	Udaipura	19693	5
	Vidisha	168410	51
	Total	581553	161

3 Bhopal Cluster	Ashta	57433	17
	Berasia	33424	8
	Bhopal	1941873	874
	Ichhawar	16437	4
	Kolar	94903	28
	Kothri	11367	3
	Mandideep	64420	19
	Obedullaganj	24670	6
	Sehore	117835	35
	Total	2362362	996

4 Shajapur Cluster	Agar	40946	10
	Akodia	12583	3
	Badagaon	7794	2
	Badod	14939	4
	Biaora	53015	16
	Boda	10676	3
	Chhapiheda	9180	2
	Jirapur	23459	6
	Kanad	11293	3
	Khilchipur	20440	5
	Khujner	11647	3
	Kurawar	24215	6
	Machalpur	10233	3
	Nalkheda	18023	5
	Narsinghgarh	34912	9
	Pachore	29585	7
	Pankhedi (Kalapipal)	3876	1
	Polaykalan	13248	3

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	Rajgarh	32101	8
	Sarangpur	40426	10
	Shajapur	74796	22
	Shujalpur	55317	17
	Soyatkalan	15962	4
	Susner	17745	4
	Suthaliya	11442	3
	Talen	11427	3
	Total	609280	161

5 Betul Cluster	Amla	32629	8
	Athner	12867	3
	Betul	111585	33
	Betul-Bazar	11479	3
	Bhainsdehi	12917	3
	Chicholi	10024	3
	MUltai	32371	8
	Sarni	93023	28
	Total	316895	89

6 Gwalior Cluster	Antari	10744	3
	Badoni	11133	3
	Bhander	27217	7
	Bhitarwar	20622	5
	Bilaua	13923	3
	Dabra	66172	20
	Datia	108295	32
	Gwalior	1138655	455
	Indergarh	24886	6
	Pichhore	13418	3
	Seondha	24989	6
	Total	1460054	545