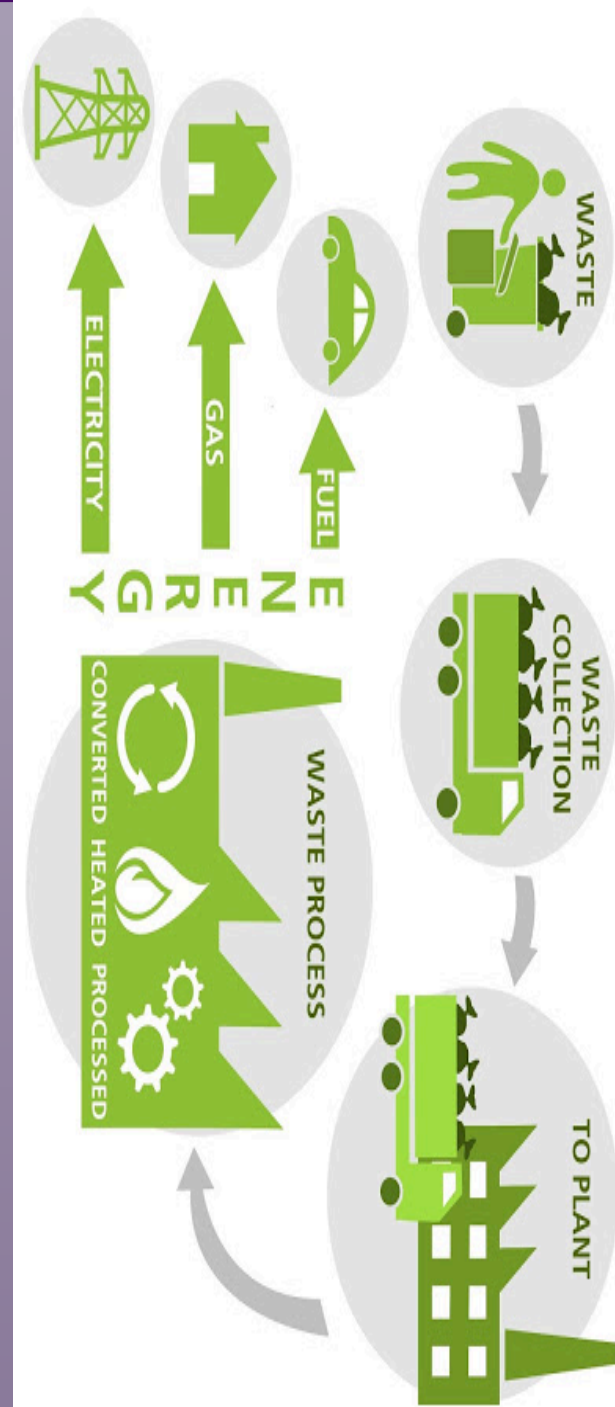


Strategic Opportunity for Reputed & Experienced
Developers In Urban Infrastructure , power generation ,
Solid Waste Management , Industrial Waste Management
for
Implementation of Integrated Solid Waste Management
Projects for 17th Cluster of ULBs in MP



Directorate of Urban Administration &
Development (GoMP), Bhopal



Disclaimer



This presentation aims to provide applicants with an overview of the Projects. Bidders are advised to go through the bidding documents in detail, themselves. Should there be any discrepancy between the terms presented here and the actual bid docs, the terms provided in the actual bidding documents shall prevail.

APPROACH FOR SWM CLUSTERS



Scale of economy doesn't permit smaller ULBs to take-up their complete ISWM operations or even attract bidders to execute the project under PPP mode

Hence the State Govt. has decided to implement Solid Waste Management in all ULBs of the State by forming clusters of ULBs on Regional Landfill Site Concept

To optimize the waste collection, clusters of ULBs have been formed so that total waste becomes minimum around 125- 150 TPD, The normally bigger ULB has been chosen as a lead member and smaller ULBs within a distance of 50-80 kms as cluster members.

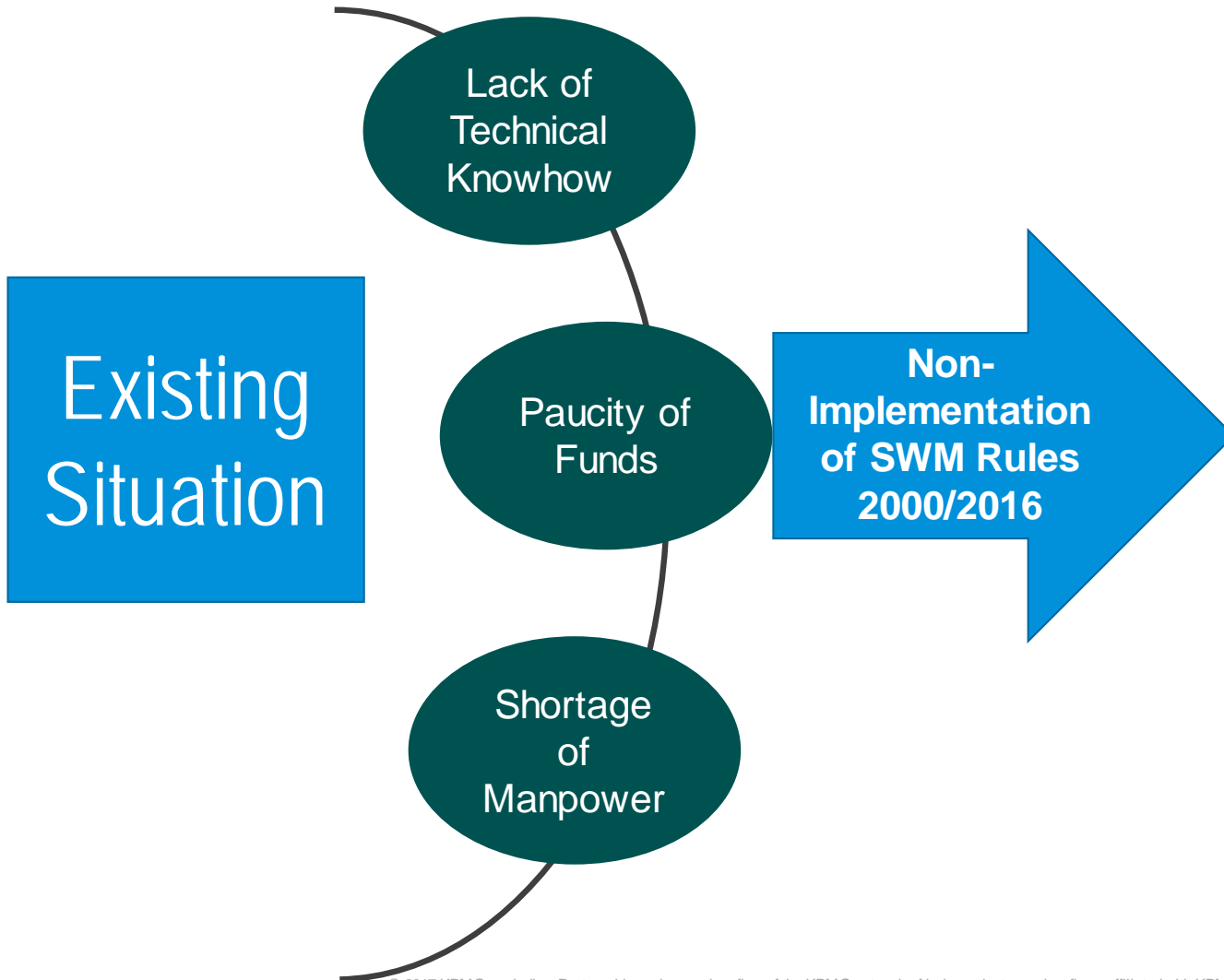
In large clusters, satellite stations have been proposed, where waste from smaller ULBs may be brought first and after segregation from there to Regional Landfill site for processing and final disposal

Clear work Definition with Existing workers- To be used for road sweeping, drain cleaning and specific area cleaning by ULB

Information Education and Communication (IEC) activities to be conducted for educating citizens about the need of SWM and their role in its implementation



❑ Reforming the Existing System



Measures for Improvisation

- ▶ Design of clusters to make project financially viable.
- ▶ Financial support from GoI (20%)*.
- ▶ Support from GoMP (20%).
- ▶ Project implementation on PPP mode.
- ▶ 60% Concessionaire share
- ▶ PPP operator to take over the useable existing infrastructure of the ULBs for service delivery and supplement it by further investment.
- ▶ Tipping fee is the bidding criteria.
- ▶ All revenue generated from waste processing for concessioner.

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* As per Revised SBM Guideline 2017 grant from Government has been increased to 58.3% (35% from GoI and 23.3% from GoMP) Shall be availed for the remaining projects.



THE PROJECT AND BROAD MODEL

The Project

Implementation of Integrated Solid Waste Management on Regional Land Fill concept as per MSW Rules 2016 on DBFOT Basis (PPP Mode) (26 cluster comprising of all 378 ULBs in the state .)

Concession Agreement

The Authority :- Lead Urban Local Body on behalf of all Participating ULBs of cluster and Concessioners.

Concession Period

Concession period of 19 Years plus (1.5-2 years of Implementation Period)

Availability of Land

Sufficient Land is available for Concessioners at nominal lease rent.

Bidding Parameter

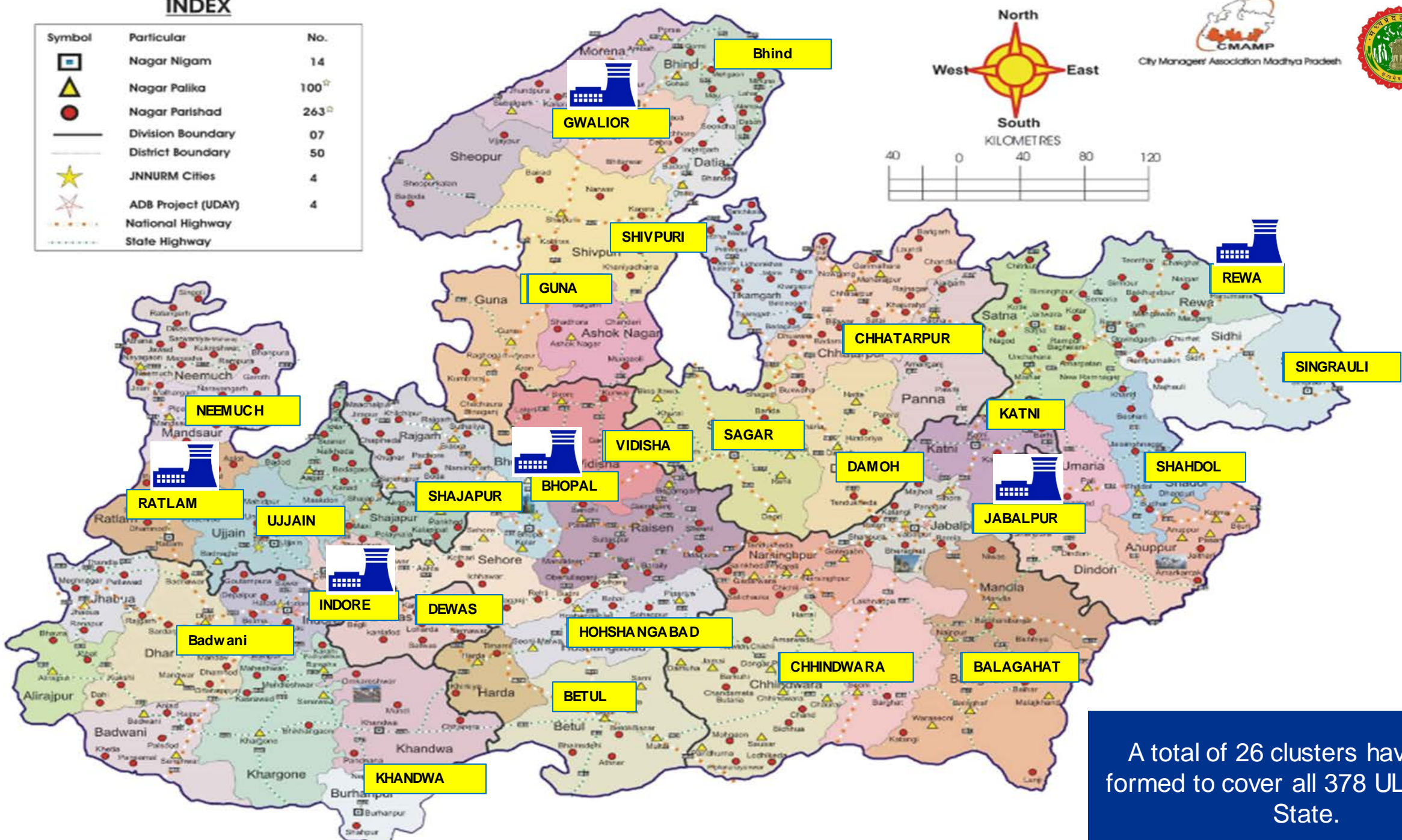
Project will be awarded to the Qualified Bidder quoting the “Lowest Tipping fee in Rs. /Ton of the MSW generated and collected form Project Area ”

Revenue

All Revenue generated from sell of product or by product of waste processing shall accrued with concessioner.

INDEX

Symbol	Particular	No.
	Nagar Nigam	14
	Nagar Palika	100*
	Nagar Parishad	263
	Division Boundary	07
	District Boundary	50
	JNNURM Cities	4
	ADB Project (UDAY)	4
	National Highway	
	State Highway	



A total of 26 clusters have been formed to cover all 378 ULBs of the State.

Project Cycle



Door to Door Collection

IEC activities to capacitate citizens to start segregation at source and payment of affordable user charges



Secondary Collection and Transportation



Segregation/Waste to Energy Processing Facility



Sanitary Landfill Site

Developer Obligation



Concessioner Scope



Primary Door to Door Collection



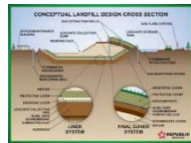
Secondary Collection & Transportation



Material Require



Waste Processing as per MSW rules 2000/2016



Scientific Disposal of Inert in Sanitary landfill



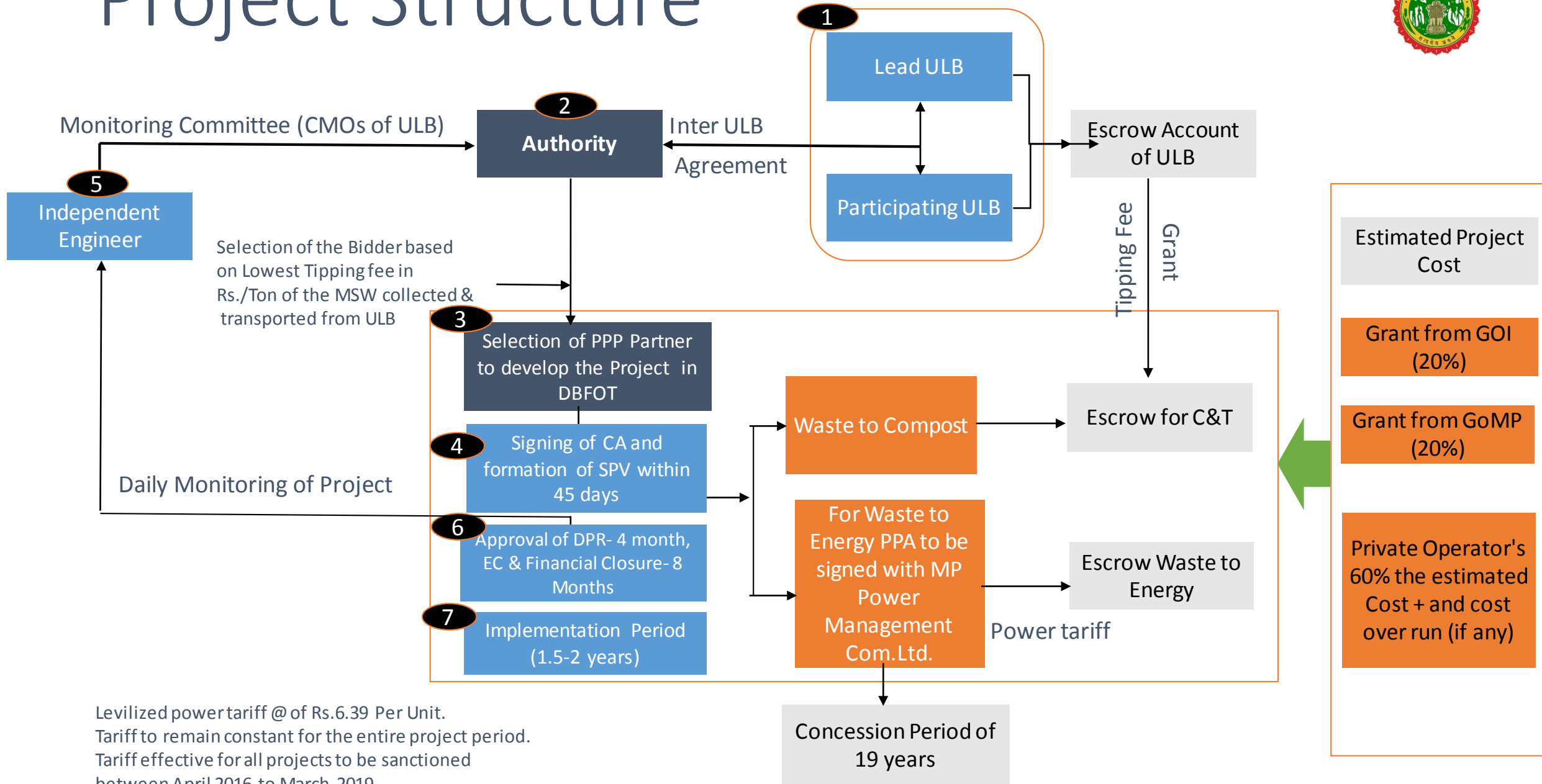
Carrying Out IEC Activities for Citizens

E.H.S for Staff

The MSW Collection & Transportation System

- Collection to start from areas/towns where it is non-operational, or being done inadequately. From periphery to core areas.
- Waste from Primary Collection vehicles to be directly transferred to primary collection bins/temporary waste storage facilities/transfer stations for household waste;
- Community bins provided for direct collection of other waste such as waste from street sweeping, commercial places, garden waste, vegetable markets etc;
- Waste in primary collection bins/ temporary waste storage facilities/community bins/transfer stations to be cleared once on daily basis or more frequently if needed.
- Sensor enabled smart bins such as with QR (Quick Response) code or RFID (Radio Frequency Identification) tags, to monitor collection efficiency of the collection system
- All the collection & transportation vehicles to be deployed with GPS/ RFID tags to detect tempering, track and monitor the vehicles.
- Operation & maintenance of plant, vehicles, and civil infrastructures procured/created newly/transferred by the Authority within the purview of Project.

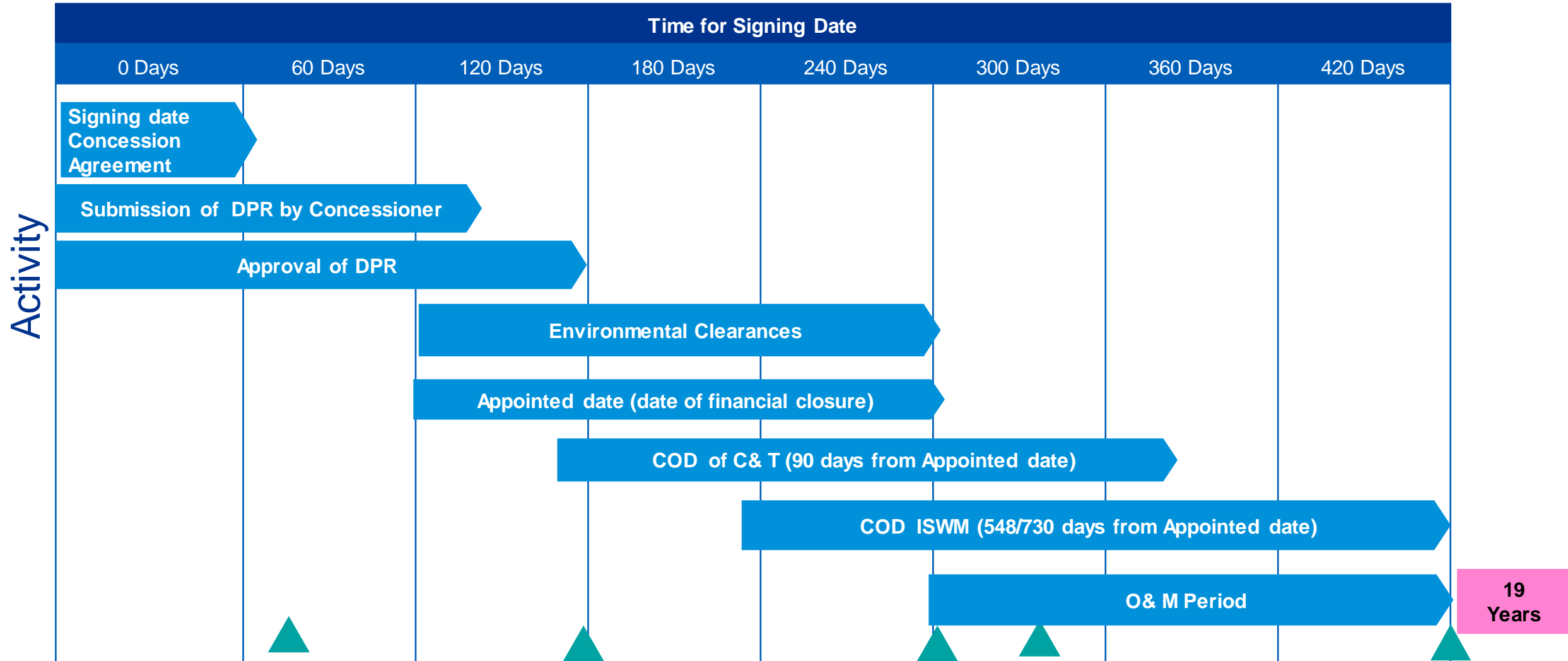
Project Structure



Levitized power tariff @ of Rs.6.39 Per Unit.
 Tariff to remain constant for the entire project period.
 Tariff effective for all projects to be sanctioned
 between April 2016 to March 2019.



Timelines for Project



COMMERCIAL ASPECTS



Assured Payment of Tipping fee in Rs. /Ton from*

Yearly Escalation

Tipping Fees to be Revised Every Year Based on a Given Formula



Revenue from Power Tariff /RDF/ Compost to Concessionaire **



40% Grant from Government



Falls Under the Definition of Infrastructure Project



Freedom to Choose Waste Treatment Technology



In Principal Approval for Funding from Bank

FDI

100%

* In case of default of Tipping fees from ULB the GoMP shall make the payment .

** PPA is to be executed between concessionaire and Madhya Pradesh Power Management Com. Ltd. As levelized Power Tariff rate shall be NR 6.39/unit for the whole concession period.



Tender Document



REQUIREMENT FOR Bidder

- ❑ Bid Security of 0.5 % of the Estimated Project Cost
- ❑ A consortium of maximum 3 private operators is allowed
- ❑ Incase of Consortium
 - ❑ The Lead Member should have at least 26% of the paid up and subscribed equity of the all the SPVs throughout the implementation period
 - ❑ Other Consortium Members should have a minimum 11% of the subscribed and paid up equity of the each of the three SPVs during implementation Period
 - ❑ Concessioner to submit Performance Bank Guarantee @ 5% of estimated Project Cost

QUALIFICATION CRITERIA



Technical criteria - technical experience scoring

Project Development Experience : The Applicant must have completed at least one project in the last 10 (ten) years preceding the Application Due Date demonstrating experience in designing, engineering, procuring and commissioning any one of the following projects:

- Waste segregation and processing facility having minimum capacity of at least 100 Metric Tonnes per day, and operating & handling annual average quantity of 100 Metric tonne per day for at least one (01) year period with Minimum Project Cost of Rs 25 Cr.

OR

- Minimum one (01) Sanitary Land Fill (SLF) site having minimum planned capacity of 150000 (One lakh Fifty thousand tonnes) and handling minimum annual average waste as 12000 (Twelve thousand) tonnes per year as per SWM rules 2016 or equivalent international rules, and has been operating/operated satisfactorily for at least one year with Minimum Cost of Project 15 Cr.

OR

- The Applicant must have in one project minimum 2 years of experience for operation and maintenance (O&M) of Door-to-Door Waste Collection/ Secondary Collection & Transportation of waste to SLF for a minimum of 2,00,000 (Two Lakh) population



QUALIFICATION CRITERIA

Technical criteria - technical experience scoring

- 1 (one) Project of Water Supply/Sewerage or any urban infrastructure costing not less than INR 150 (One Hundred Fifty) Crore .

OR

- Industrial Waste Secured Land fill (SLF) site having Minimum One (1) SLF with minimum planned capacity of 50,000 tonnes (Fifty Thousand tonnes), and handling minimum annual average waste of 7000 MT per year as per Hazardous Waste as per (Management handling and Trans boundary Movement) Rules, 2008 and amendments thereafter).

OR

- Should have completed one power generation plant with minimum capital investment of Rs. 150.00 (One Hundred Fifty) crores.

QUALIFICATION CRITERIA



FINANCIAL CRITERIA

- ❑ The minimum Net Worth (the “Financial Capacity”) of Applicant shall be 60% of the Estimated Project Cost as on 31st March 2016
- ❑ The Minimum average Annual Turnover of the Applicant for the last three financial years (2013-14, 2014-15 and 2015-16) shall not be less than 40% of Estimated Project Cost.

In the case of a consortium, the combined minimum average Net worth & Annual Turnover of all consortium members shall be considered



TECHNICAL BID to be Submitted

I	Letter comprising the Bid
II	Details of the Applicant
III	Power of Attorney for signing of Bid
IV	Power of Attorney for Lead Member of Consortium
V	Anti-Collusion Certificate
VI	Format for Financial Capacity
VII	Format for Technical Experience
VIII	Format for Technical Proposal
IX	Format for Financial Offer (To be submitted online only)
X	Certificate from the Statutory Auditor regarding PPP projects
XI	Statement of Legal Capacity
XII	Joint Bidding Agreement
XIII	Bid Security



Achievement of MP and Opportunity for Bidder



Present Status of Madhya Pradesh - SWM

- GoMP has already committed to National Green Tribunal to implement MSW Management as per “MSW Rules 2000/2016” in all ULBs through regional landfill site concept by Oct 2019 .

Status of Clusters where Concessionaire Selected

Katni Cluster: Operational	Sagar Cluster: Operational	Jabalpur: Operational
Bhopal Cluster: Under Implementation	Rewa Cluster: Under Implementation	Gwalior Cluster : Under Implementation
Indore Cluster : Concessionaire Appointed	Hoshangabad Cluster : Concessionaire Appointed	Dewas Cluster : Concessionaire Appointed

- Most importantly, Prime Minister has a Vision to make India a Clean Country by 2019. To fulfil this objective GoMP has decided to implement SWM in all ULBs by Oct 2019 .
- Hon’ble Prime Minister of India has already appreciated the Action plan of MP Govt. for implementation of Integrated Solid Waste Management in all ULBs of the State. He has advised other states to emulate this.
- This concept of implementing SWM in ULBs in this manner has been chosen as one of the 11 best “Innovative Ideas” out of 830 Innovative Ideas submitted for PM Awards.



Present Status of Awarded Project

S. No.	Name of Project	Number of ULBs	Quantity of waste in TPD	Type of Plant	Project Cost	Status
1	Katni	5	95	Compost	35.39	Under Implementation
2	Sagar	11	185	Compost	70.54	Under Implementation
3	Bhopal	8	1060	Energy	465.76	Under Implementation
4	Rewa	28	340	Energy	158.67	Under Implementation
5	Gwalior	16	606	Energy	259.1	Under Implementation
6	Indore	8	1010	Energy	473.01	DPR to be submitted
7	Jabalpur (T)	1	400	Energy	200	Operational
8	Ujjain	1	190	Compost	31	Operational
9	Dewas	24	245	Compost	104.88	LOI to be issued
10	Hoshangabad	14	165	Compost	67.35	LOI to be issued

Opportunity for Developer



S. No.	Name of Project	Number of ULBs	Quantity of waste in TPD	Type of Plant	Project Cost	Status
11	Khandwa	10	175	Compost	68.42	Live Tender
12	Chhindwara	20	167	Compost	55.37	Live Tender
13	Vidisha	15	167	Compost	73.61	Live Tender
14	Damoh	7	75	Compost	28.24	Live Tender
15	Chhatarpur	33	212	Compost	84.27	Live Tender
16	Shahdol	16	120	Compost	42.84	Live Tender
17	Betul	8	83	Compost	31.59	Live Tender
18	Guna	10	151	Compost	61.13	Live Tender
19	Shivpuri	11	124	Compost	47.52	Live Tender
20	Balaghat	13	110	Compost	59.44	Live Tender
21	Badwani	22	189	Compost	85.86	Live Tender
22	Ratlam	22	308	Energy	156.37	Live Tender
23	Singrauli	1	91	Compost	41.96	Live Tender
24	Shajapur	26	165	Compost	76.19	Live Tender
25	Bhind	14	156	Compost	41.15	Live Tender
26	Neemuch	19	103	Compost	39.41	Live Tender



□ Successful Implementation of Initiative at Jabalpur

Waste to Energy Plant on PPP Model



- ▶ Katondha Power Plant, Jabalpur developed on PPP Model.
- ▶ 11.5 MW installed capacity of energy plant.
- ▶ Cleanliness has improved environmental conditions.



Current scenario

SAGAR



Door to Door collection



Awareness and cooperation



Cleanliness of town

KATNI





Thank you

Touch Point

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