

**PUNJAB MUNICIPAL INFRASTRUCTURE DEVELOPMENT COMPANY, CHANDIGARH
DEPARTMENT OF LOCAL GOVERNMENT, PUNJAB**

Memo. No. PMIDC/SWM/2022/5807

Dated:08.08.2023

EXPRESSION OF INTEREST (EOI)

**FOR PROVIDING TECHNICAL SOLUTIONS TO HANDLE DRY WASTE
IN URBAN LOCAL BODIES HAVING POPULATION BELOW ONE LAKH IN
PUNJAB STATE (INDIA)**

Punjab Municipal Infrastructure Development Company (PMIDC), Chandigarh invites Eoi from the eligible agencies for providing technical solutions to handle Dry Waste in Urban Local Bodies having population below one lakh. The detailed proposals from solution providers, startups, future technology vendors **to design and develop robust solutions for managing dry waste in Punjab.** The last date for submission of detailed proposal is **31st August, 2023 by 5 PM.** The details may be obtained from PMIDC website- <https://pmidc.punjab.gov.in/>. The proposals can be submitted online at swm.pmidc@gmail.com or by post on Room No.505, 5th Floor, PMIDC, Punjab Municipal Bhawan Sector-35.Chandigarh, 160022.

-Sd-

Chief Engineer (SWM/SBMU)
PMIDC, Chandigarh

8/8/2023

Expression of Interest for providing technical solutions to handle Dry waste in Urban Local Bodies below population of one Lakh

PMIDC wishes to invite proposals from solution providers, start-ups, future technology vendors to design and develop robust solutions for managing municipal dry waste in Urban areas of Punjab.

Office of Chief Executive Officer,
PMIDC, SECTOR 35-A, CHANDIGARH

EXPRESSION OF INTEREST (EOI) FOR TACKLING DRY WASTE GENERATED IN THE URBAN LOCAL BODIES IN PUNJAB

1. Background

Government of India (GoI) notified Rules on Solid Waste Management and Plastic Waste Management in 2016. These Rules mandate segregation of waste at source by a generators, integration of the informal sector into existing systems and waste processing. The Rules also outline that cities should become zero-waste to landfill in the near future, establish material recovery facilities (processing units) and enforce ban on single-use plastics items according to the Plastic Waste Management Rules 2016 and as amended time to time.

Punjab has made significant progress in handling legacy waste under the Swachh Bharat Mission (SBM) by remediating waste dumpsites in more than 65 cities and target for achieving the 148 ULBs by March 2025. Apart from reclaiming the legacy waste, there are advanced plans to establish two (2 nos) Waste to Energy Plants (14MW each) at Amritsar and Ludhiana along with 17 Bio-methanation/Bio CNG Plants in the state under SBMU.

An estimate of approx. 4100 TPD solid waste is generated in all 166 ULBs of Punjab of which total Dry waste quantum is estimated to be around 1650 TPD. The quantum of plastic waste in the dry waste is estimated between 8 to 10 % annually. There have been successful pilots tested by ULBs in utilizing the dry waste (plastics specifically) as construction material in laying public roads and sidewalks and channelization through two recycling agencies. There is certainly a need to explore economic value in reusing and recycling the dry waste components including Multilayer Plastics (MLPs) & thermocol packaging which lack finding recycling solutions due to both poor market linkages and possible financial incentives.

Since establishing waste to energy plants are a capital-intensive project which requires high volume of waste quantum and land demand which reduces the viability for executing this solution in small to medium ULBs with population size less than 100,000. At present, 150 ULBs out of total 166 ULBs fall in this category (<1 lakh pop), hence proposals for these ULBs which are **low cost sustainable, scalable and demonstrate waste to value preposition** will be preferred.

Present Process flow for Channelization and Processing of Dry waste

A total of 266 Material Recovery Facilities have been set up in the ULBs of Punjab. All the MRFs are semi mechanized equipped with bailing machines. The dry waste collected is further segregated at micro-level in different categories and the recyclables are directly sold to the Junk

dealers. The remaining dry waste mainly MLPs is baled with bailing machines and is sold to private vendors for recycling purposes.

Key Challenges

- The disposal of commercially non-recyclables wastes including textile waste/rags, leather waste/rubber waste etc.
- The end of life disposal of waste which is not practically feasible to be segregated and process rejects
- The disposal of RDF produced after Bioremediation of Legacy waste as there is no Cement Kiln in Punjab.

2. Objective

To tackle the challenges in bringing Dry waste (non-biodegradable in nature) to circular economy loops for comprehensive management of waste collected at MRF's and RRR centers, PMIDC is keen to onboard solution providers, start-ups and innovators and waste management enterprises for safe processing and safe disposal of commercially non-recyclable dry waste including MLPs.

The objective will also be to identify potential sustainable solutions which are scalable for small to large size urban local bodies their potential waste collection quantum. The solutions should infuse the concept of waste to-wealth specifically for low-value recyclables, which are usually difficult to segregate economically, are now being brought into circular economy loop rather than entering the environment.

3. Scope

Dry waste by definition includes a range of materials each having different economic value for waste recyclers and coverage of EPR for PIBOs. Hence, there is a need to scope out solutions which could provide unified solutions for range of dry waste together and can be scaled up. The solutions should include addressing waste specifically in form of multi-layer plastic (MLP), Thermocol, textile and cosmetic waste, tyres and rubber waste generated from households. The scope includes to propose a low-cost sustainable technological solutions for handling, processing of dry waste in the ULBs in line with Solid Waste Management Rules 2016 and directions of NGT issued from time to time. The output of processing should be non-polluting and meet standards prescribed by Pollution Control Board. The approximate quantum of dry waste generated by each ULB is annexed at Annex-A. Any agency/enterprise/ solution providers/ start-ups/ future technology vendors etc. having an innovative idea to handle dry waste/RDF are also encouraged to submit EoI. It's advised that all the proposals submitted should bring evidences backed documents to authenticate their solution by CPCB/PPCB.

The uptake of any solution relies on financial sustainability and overcoming market entry barriers, hence to scope out successful solutions it would be important to outline minimum viable

product and requirements for public investment to support such solutions. This would be pivotal to make the selections of right solution.

4. Selection criteria

PMIDC will constitute a selection committee which will be reviewing the proposals. This committee will comprise of State Mission Director (SBMU), SWM/PWM Experts, Subject Expert from Punjab Pollution Control Board and Senior Officials from Department of Local Government.

An initial assessment of the proposals will be conducted by the screening committee to shortlist leading innovative solutions applicant which will be called in for interviews and presentation by the selection committee.

5. Timelines

All the interested applicants are requested to adhere to the following timelines:

Detail	Timeline
Call for EoI	T ₀
Early market Engagement with perspective participants	T ₀ +10 days
Submission of Proposals	T ₀ +21 days
Shortlisted application by screening committee	T ₀ +30
Final Jury presentation with Selection Committee	T ₀ +35
Announcement of final	T ₀ +40

Annexure 1: ULB wise Dry waste collection

ULB wise Dry Waste Generation			
S. No.	District	ULB	Dry Waste Collected (MTD)
1	Amritsar	Ajnala	2
2	Amritsar	Jandiala Guru	3
3	Amritsar	Majitha	2
4	Amritsar	Raja Sansi	2
5	Amritsar	Ramdass	1
6	Amritsar	Rayya	2
7	Barnala	Barnala	15
8	Barnala	Bhadaur	2
9	Barnala	Dhanaula	2
10	Barnala	Handiaya	1
11	Barnala	Tapa	2
12	Bathinda	Bhagta Bhai	2
13	Bathinda	Bhai Roopa	2
14	Bathinda	BhuchoMandi	2
15	Bathinda	Goniana	2
16	Bathinda	Kotfatta	1
17	Bathinda	Kotha Guru	1
18	Bathinda	KotShamir	1
19	Bathinda	Lehra Mohabbat	1
20	Bathinda	Maluka	1
21	Bathinda	Maur	3
22	Bathinda	Mehraj	2
23	Bathinda	Nathana	1
24	Bathinda	Raman	2
25	Bathinda	Rampura Phul	6
26	Bathinda	Sangatmandi	1
27	Bathinda	Talwandisabo	2
28	Faridkot	Faridkot	11
29	Faridkot	Jaitu	4
30	Faridkot	Kotkapura	12
31	Fatehgarh Sahib	Amloh	2
32	Fatehgarh Sahib	BassiPathana	2
33	Fatehgarh Sahib	Khamano	1
34	Fatehgarh Sahib	Mandi Gobindgarh	10
35	Fatehgarh Sahib	Sirhind	7
36	Fazilka	Arniwala	1
37	Fazilka	Fazilka	9
38	Fazilka	Jalalabad	4
39	Ferozepur	Ferozepur	14
40	Ferozepur	Guru Harsahai	2

Inviting Proposals for providing technical solutions to handle Dry Waste in ULBs < 1Lakh Population

ULB wise Dry Waste Generation			
S. No.	District	ULB	Dry Waste Collected (MTD)
41	Ferozepur	Makhu	2
42	Ferozepur	Mallanwala	2
43	Ferozepur	Mamdot	1
44	Ferozepur	Mudki	1
45	Ferozepur	TalwandiBhai	2
46	Ferozepur	Zira	4
47	Gurdaspur	Dera Baba Nanak	1
48	Gurdaspur	Dhariwal	2
49	Gurdaspur	Dina Nagar	2
50	Gurdaspur	Fatehgarh Churian	1
51	Gurdaspur	Gurdaspur	9
52	Gurdaspur	Quadian	2
53	Gurdaspur	Sri Hargobindpur	1
54	Hoshiarpur	Dasuya	2
55	Hoshiarpur	Garhdiwala	1
56	Hoshiarpur	Garhshankar	2
57	Hoshiarpur	Hariana	1
58	Hoshiarpur	Mahilpur	1
59	Hoshiarpur	Mukerian	3
60	Hoshiarpur	Shamchurasi	1
61	Hoshiarpur	Talwara	2
62	Hoshiarpur	UrmarTanda	2
63	Jalandhar	Adampur	2
64	Jalandhar	Alawalpur	1
65	Jalandhar	Bhogpur	2
66	Jalandhar	Bilga	1
67	Jalandhar	Goraya	2
68	Jalandhar	Kartarpur	2
69	Jalandhar	LohianKhas	1
70	Jalandhar	Mehatpur	1
71	Jalandhar	Nakodar	4
72	Jalandhar	Nurmahal	2
73	Jalandhar	Phillaur	2
74	Jalandhar	Shahkot	2
75	Kapurthala	Begowal	1
76	Kapurthala	Bhulath	1
77	Kapurthala	Dhilwan	1
78	Kapurthala	Nadala	1
79	Kapurthala	Sultanpur Lodhi	2
80	Ludhiana	Doraha	2
81	Ludhiana	Jagraon	8
82	Ludhiana	Khanna	16

Inviting Proposals for providing technical solutions to handle Dry Waste in ULBs < 1Lakh Population

ULB wise Dry Waste Generation			
S. No.	District	ULB	Dry Waste Collected (MTD)
83	Ludhiana	Machiwara	2
84	Ludhiana	Maloud	1
85	Ludhiana	MullanpurDakha	2
86	Ludhiana	Payal	1
87	Ludhiana	Raikot	3
88	Ludhiana	Sahnewal	2
89	Ludhiana	Samrala	2
90	Malerkotla	Ahmedgarh	3
91	Malerkotla	Amargarh	1
92	Malerkotla	Malerkotla	17
93	Mansa	Bareta	2
94	Mansa	Bhikhi	2
95	Mansa	Boha	1
96	Mansa	Budhlada	2
97	Mansa	Joga	1
98	Mansa	Mansa	10
99	Mansa	Sardulgarh	2
100	Moga	BadhniKalan	1
101	Moga	Baghapurana	2
102	Moga	Dharamkot	2
103	Moga	Fatehgarh Panjtoor	1
104	Moga	Kot isse Khan	1
105	Moga	Nihal Singh Wala	1
106	Mohali	Banur	2
107	Mohali	DeraBassi	2
108	Mohali	Kharar	9
109	Mohali	Kurali	3
110	Mohali	Lalru	2
111	Mohali	NayaGaon	6
112	Mohali	Zirakpur	12
113	Muktsar	Bariwala	1
114	Muktsar	Gidderbaha	5
115	Muktsar	Malout	10
116	Muktsar	Muktsar	15
117	Nawanshar	Balachaur	2
118	Nawanshar	Banga	2
119	Nawanshar	Nawanshahr	6
120	Nawanshar	Rahon	2
121	Pathankot	Narot Jaimal Singh	1
122	Pathankot	Sujanpur	3
123	Patiala	Bhadson	1
124	Patiala	Ghagga	1

Inviting Proposals for providing technical solutions to handle Dry Waste in ULBs < 1Lakh Population

ULB wise Dry Waste Generation			
S. No.	District	ULB	Dry Waste Collected (MTD)
125	Patiala	Ghanaur	1
126	Patiala	Nabha	8
127	Patiala	Patran	3
128	Patiala	Rajpura	12
129	Patiala	Samana	6
130	Patiala	Sanaur	2
131	Roopnagar	Anandpur Sahib	2
132	Roopnagar	Chamkaur Sahib	1
133	Roopnagar	Kiratpur	1
134	Roopnagar	Morinda	2
135	Roopnagar	Nangal	6
136	Roopnagar	Ropar	6
137	Sangrur	Bhawanigarh	2
138	Sangrur	Cheema	1
139	Sangrur	Dhuri	6
140	Sangrur	Dirba	2
141	Sangrur	Khanauri	1
142	Sangrur	Lehragaga	2
143	Sangrur	Longowal	2
144	Sangrur	Moonak	2
145	Sangrur	Sangrur	11
146	Sangrur	Sunam	8
147	Tarn Taran	Bhikhi Wind	2
148	Tarn Taran	Khemkaran	1
149	Tarn Taran	Patti	4
150	Tarn Taran	Tarntaran	8

8/8/2023

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50	Gurdaspur	Fatehgarh Churian	1
51	Gurdaspur	Gurdaspur	9
52	Gurdaspur	Quadian	2
53	Gurdaspur	Sri Hargobindpur	1
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55	Hoshiarpur	Garhdiwala	1
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70	Jalandhar	Mehatpur	1
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74	Jalandhar	Shahkot	2
75	Kapurthala	Begowal	1
76	Kapurthala	Bhulath	1
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89	Ludhiana	Samrala	2
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91	Malerkotla	Amargarh	1
92	Malerkotla	Malerkotla	17
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94	Mansa	Bhikhi	2
95	Mansa	Boha	1
96	Mansa	Budhlada	2
97	Mansa	Joga	1
98	Mansa	Mansa	10
99	Mansa	Sardulgarh	2
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101	Moga	Baghapurana	2
102	Moga	Dharamkot	2
103	Moga	Fatehgarh Panjtoor	1
104	Moga	Kot isse Khan	1
105	Moga	Nihal Singh Wala	1
106	Mohali	Banur	2
107	Mohali	DeraBassi	2
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115	Muktsar	Malout	10
116	Muktsar	Muktsar	15
117	Nawanshar	Balachaur	2
118	Nawanshar	Banga	2
119	Nawanshar	Nawanshahr	6
120	Nawanshar	Rahon	2
121	Pathankot	Narot Jaimal Singh	1
122	Pathankot	Sujanpur	3
123	Patiala	Bhadson	1
124	Patiala	Ghagga	1

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130	Patiala	Sanaur	2
131	Roopnagar	Anandpur Sahib	2
132	Roopnagar	Chamkaur Sahib	1
133	Roopnagar	Kiratpur	1
134	Roopnagar	Morinda	2
135	Roopnagar	Nangal	6
136	Roopnagar	Ropar	6
137	Sangrur	Bhawanigarh	2
138	Sangrur	Cheema	1
139	Sangrur	Dhuri	6
140	Sangrur	Dirba	2
141	Sangrur	Khanauri	1
142	Sangrur	Lehragaga	2
143	Sangrur	Longowal	2
144	Sangrur	Moonak	2
145	Sangrur	Sangrur	11
146	Sangrur	Sunam	8
147	Tarn Taran	Bhikhi Wind	2
148	Tarn Taran	Khemkaran	1
149	Tarn Taran	Patti	4
150	Tarn Taran	Tarntaran	8